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Final Programme

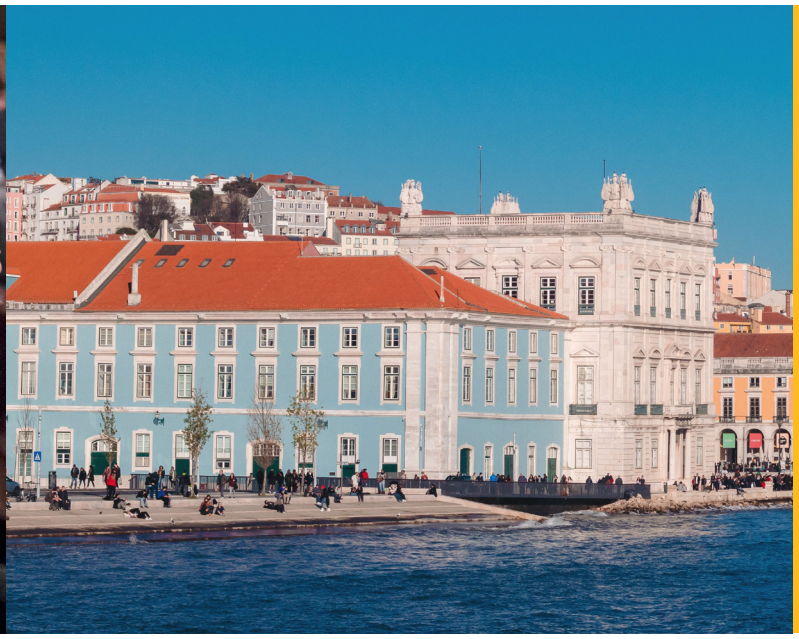
European Congress of
Clinical Microbiology
and Infectious Diseases

Lisbon, Portugal
23 – 26 April 2022

ECCMID

32nd





www.eccmid.org

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ESCMID

MANAGING INFECTIONS
PROMOTING SCIENCE

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Introduction

Welcome Address

Dear friends and colleagues,

The European Society of Clinical Microbiology and Infectious Diseases (ESCMID) is delighted to invite you to take part at the 32nd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID 2022), which will be held from Saturday 23 to Tuesday 26 April 2022, in a hybrid format both online and onsite in Lisbon, Portugal.

ECCMID is the leading and the largest educational platform for specialists in clinical microbiology, infectious disease, infection prevention, infection control and public health. ECCMID 2022 will offer excellent opportunities to corporate partners to showcase their latest findings, share their experiences and knowledge and demonstrate practical techniques and guidance.

Last year, for the first time, we explored a fully virtual delivery of ECCMID to maximise our accessibility in a time of tremendous uncertainty during the COVID-19 pandemic. We saw the opportunity to bring together participants from all around the globe, focusing on sharing scientific information. As we strive to increase the excellence of our annual congress constantly, we continue to develop our hybrid format for ECCMID. This year we are excited to return to hosting an onsite congress in Lisbon, Portugal bringing back the personal interaction that has been sorely missed. However, the addition of an online platform ensures that we retain the flexibility and accessibility of the scientific content for all attendees regardless of geographic or travel limitations.

The ECCMID Programme Committee is working tirelessly to create a comprehensive and timely programme covering the entire range of ECCMID topics with high-level speakers. Participants will have the opportunity to meet researchers from many parts of the world to discuss methods, results and the impact on clinical and laboratory practice. As in previous years, young professionals will also have the opportunity to discuss their ideas and projects with renowned experts in a variety of interactive sessions that also provide superb networking opportunities. This year ECCMID will again feature pipeline corners where innovative companies and research groups will be offered a platform to present their early-stage antimicrobial therapies, diagnostic products in development, and research funding opportunities to a wider audience. This will be complemented by scientific content co-developed with the industry such as the integrated symposia.

Last year we expanded our programme to include a series of "Pre-ECCMID Days" that took place leading up to the congress and covered a variety of hot topics, including COVID-19, AMR and Vaccines. These were well attended individual learning days that increased the breadth of ECCMID and allowed for special topics to be brought to the forefront of scientific discussions. We are continuing this initiative this year while addressing key themes that will be further covered and built upon during the congress itself.

Other new features from ECCMID 2021 that will be returning this year will be the Keynote Fireplace sessions where ECCMID keynote speakers meet with a small group of participants to enter a more in-depth discussion on their keynote lecture. Additionally, the infectious disease-themed Escape Room will be reprised and updated as an immersive interactive addition. We also invite our participants to take part in our ECCMID Art Gallery, showcasing the creativity of our community.

ECCMID 2022 will enable our community to discuss, network, develop and share knowledge that is imperative for our discipline. The scientific programme will highlight the latest scientific achievements and will create a comprehensive intellectual and operational environment for the acquisition of knowledge, skills and clinical judgement.

The venues in Lisbon offer all modern amenities required for the successful organisation of our congress and is reachable by public transport from the city centre. After a day full of inspiring sessions and fruitful discussions, we hope that you will have time to explore Lisbon, a cosmopolitan city with a rich history and culture. We look forward to seeing you both onsite in Lisbon and online! Thank you for again making this congress one of the top scientific events of the year.

Maurizio Sanguinetti
ESCMID President



Jesús Rodríguez-Baño
ESCMID Immediate Past President and Guidelines Officer



Jacob Moran-Gilad
ECCMID Programme Director



Important Addresses

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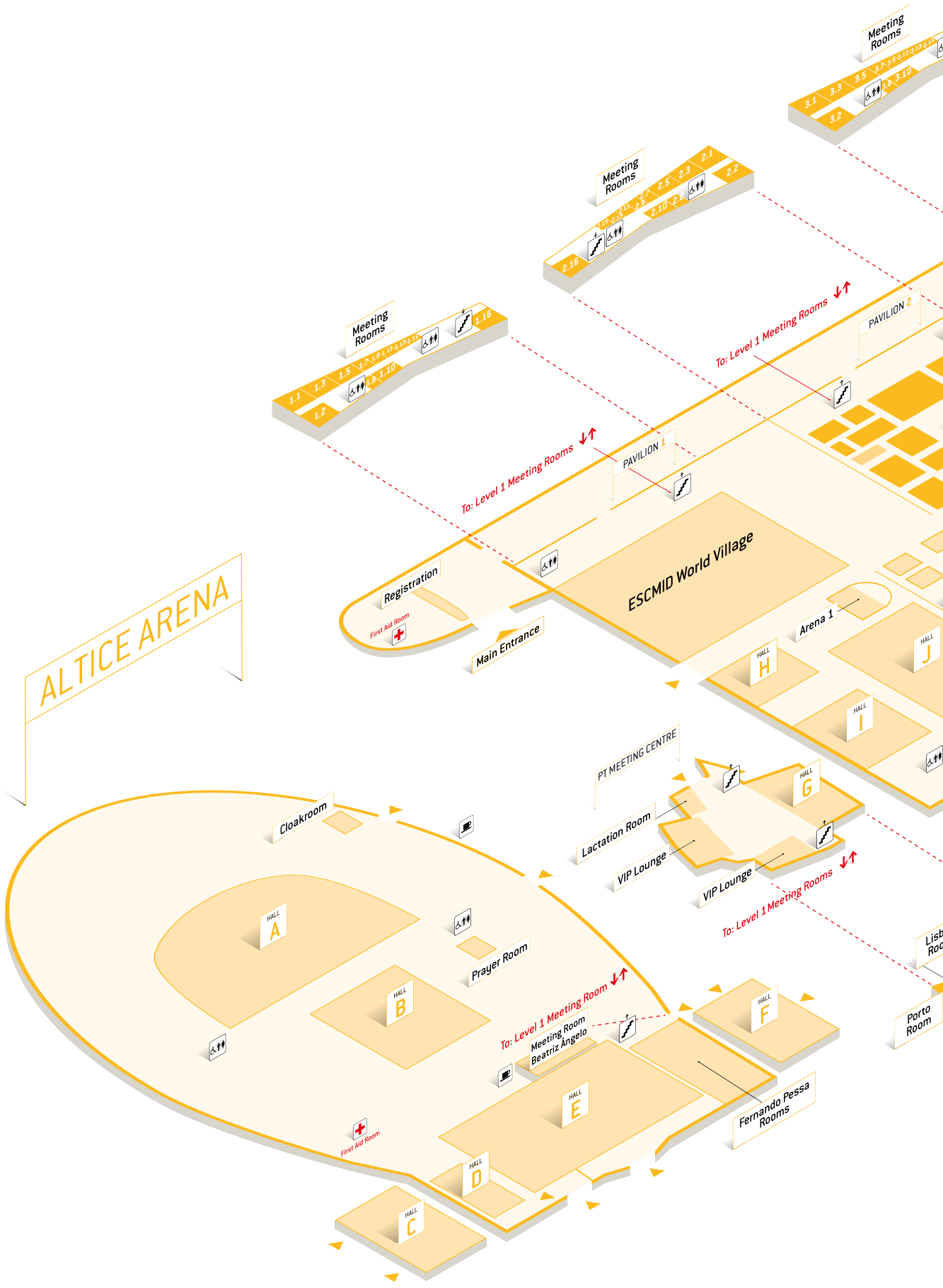
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Acknowledgements

The ECCMID Programme Committee is proud to acknowledge the scientific input from the following organisations in setting up the scientific programme and/or organising joint workshops and symposia:

ASM – American Society for Microbiology
COFFI – The Collaborative on Fatigue Following Infection
EACS – European AIDS Clinical Society
EASL – European Association for the Study of the Liver
ECDC – European Centre for Disease Prevention and Control
ECRAID – European Clinical Research Alliance on Infectious Diseases
EITaF – ESCMID Emerging Infections Task Force
EKMUD – Infectious Diseases and Clinical Microbiology Specialty Society of Turkey
ERS – European Respiratory Society
ESPID – European Society for Paediatric Infectious Diseases
ESPNIC – European Society of Paedriatic and Neonatal Intensive Care
ESV – European Society of Virology
EUCAST – European Committee on Antimicrobial Susceptibility Testing
EUCIC – European Committee on Infection Control
ICARS – International Centre for Antimicrobial Resistance Solutions
ICHS – International Immunocompromised Host Society
IDSA – Infectious Diseases Society of America
ISF – International Sepsis Forum
ISMM – Israel Society for Medical Mycology
JAID – Japanese Association Infectious Diseases
KSCM – Korean Society of Clinical Microbiology
Lancet Commission on Diagnostics
Lancet Journals
MSF – Médecins Sans Frontières
SEAP – Spanish Society of Pathologists
SEIMC – Spanish Society of Infectious Diseases and Clinical Microbiology
SEPAF – Spanish Society of Forensic Pathologists
SFMM – French Society for Medical Mycology
SPM – Portuguese Society of Microbiology
UEMS Section of Infectious Diseases
UEMS Section of Medical Microbiology
VALUE-Dx
Waidid – World Association for Infectious Diseases and Immunological Disorders
WHO – World Health Organization

Congress Venue Overview




Meeting Rooms
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To: Level 1 Meeting Rooms
To: Level 1 Meeting Rooms
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PAVILION 3
HALL M
HALL L
HALL O
HALL N
HALL P
HALL Q
HALL K
Escape Room
Arena 2
Industry Pop-up Village
Poster Helpdesk
Posters
Expo Desk
Sponsors' Lounge
Hospitality Suites
Product Theatre
Hospitality Suites
FIL

Cascais Room
Speakers' Ready Room

Future Congresses

33rd ECCMID

COPENHAGEN, DENMARK
15 – 18 April 2023

Bella Center Copenhagen

34th ECCMID

27 – 30 April 2024

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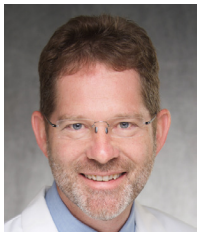
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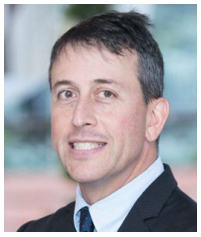
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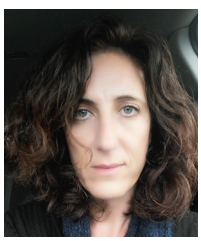
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"All the world is made of change, and forever attaining new qualities."

Luís de Camões





Awards and Grants 2022 & 2020

ESCMID Award for Excellence in Clinical Microbiology and Infectious Diseases 2022 & 2020

One of the main missions of ESCMID is to promote scientific research in the fields of clinical microbiology and infectious diseases. To this aim, ESCMID supports young clinicians, researchers and established scholars with awards and grants to recognise achievements and provide incentive for future accomplishments. ESCMID funds its members' research projects and training in clinical microbiology and infectious diseases fields, with more than EUR 500,000 every year, of which about EUR 400,000 are reserved to finance several promising research projects. ESCMID is pleased to announce the recipients of the society's awards and grants for the year 2022 and 2020.



Bart Haagmans
Rotterdam, Netherlands

Bart Haagmans is a virologist working at the Viroscience department, Erasmus Medical Center. His research line focusses on the pathogenesis of viral infections and especially those viruses that emerge through zoonotic transmission, as a basis for (future) interventions and medical countermeasures. This brings together work performed earlier at the Veterinary faculty in Utrecht and more recent work on human viruses in Rotterdam. He brings a strong track record of fundamental and applied research of MERS-CoV, SARS-CoV and SARS-CoV-2. In collaboration with international teams, the novel coronavirus was classified as SARS-CoV-2, diagnostic assays were developed and validated while animal and *in vitro* organoid models were set up to further understand pathogenesis and test (antibody based) intervention strategies. Development of reagents, vaccines and protocols for molecular and serological detection of these emerging viral pathogens lead to options for interventions and medical countermeasures. Dr. Haagmans has more than 230 publications on different subjects in (clinical) virology, identification and characterization of novel emerging viruses and the development of vaccines. He is an expert consultant of WHO, FAO and OIE on coronaviruses as well as a member of the the Coronaviridae Study Group of the ICTV. He is PI on several Dutch and EU grants and is co-coordinating the IMI ZAPI project, focused on zoonotic anticipation and preparedness initiatives, and amongst others led to discovery of broadly cross-reactive monoclonal antibodies against beta coronaviruses.

Dr. Haagmans will receive the 2022 award at ECCMID 2022 during the Excellence Award Session on Sunday, 24 April 2022, 08:30 in Hall A. During the ceremony, he will give a presentation entitled: "Characterising SARS-CoV-2, the virus that caused the COVID-19 pandemic: an ongoing effort".



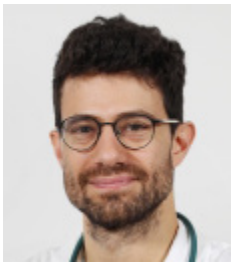
Herman Goossens,
Antwerpen, Belgium

Prof. Herman Goossens is a full professor of Medical Microbiology at the University of Antwerp in Belgium since 1992, director of the laboratory of Clinical Microbiology at the University Hospital Antwerp since 1992 and director of Laboratory Medicine of the University Hospital Antwerp since 1997. His professional goal is to bridge the gap between basic and clinical research, with a major focus on antibiotic resistance, to enhance the standard of healthcare, public health and professional standards, for the good of the public in large. Prof. Goossens's current research is focused in five areas. First, the detection and genetic mechanisms involved in the emergence and evolution of antibiotic resistance and virulence in bacteria and its epidemiological and ecological bases and implications. Second, studying antimicrobial use in hospitals, the community and long-term care facilities, developing indicators of use and quality of prescribing, initially in Europe, later globally, focusing on Low and Middle Income Countries. Third, linking scientific and clinical research throughout Europe in lower respiratory tract infections, in primary health care and hospital medical practice. Fourth, better prepare Europe for emerging infectious diseases and pandemics. Fifth, building a network of more than 800 diagnostic labs in more than 40 countries in Europe to support clinical trials that investigate the utility of new antimicrobial strategies and diagnostics. Prof. Goossens authored more than 600 Web of Science cited papers, and his papers have been cited close to 25,000 times. In 2008 Prof. Goossens obtained the prestigious status of Methusalem top-scientist from the Flemish government.

Prof. Goossens will receive the 2020 award at ECCMID 2022 during the Excellence Award Session on Sunday, 24 April 2022, 08:30 in Hall A. During the ceremony, he will give a presentation entitled: "Transcending european clinical research in infectious diseases through collaboration to break down traditional silos".

ESCMID Young Investigator Awards for Research in Clinical Microbiology and Infectious Diseases 2022

Michele Bartoletti, Bologna, Italy



Michele Bartoletti is an Infectious Disease Physician of IRCCS Sant'Orsola and Assistant Professor of Infectious Disease of University of Bologna. He has been graduated in Medicine and Surgery in 2008, has completed his infectious disease training in 2014 and received Ph.D. in 2018. As Infectious Disease Physician he is involved in care of critically ill and immunocompromised patients including patients with hematological disease and transplant recipients. His main research interests have been infections in the immunocompromised host, critically ill patients, and patients with liver cirrhosis. During the COVID-19 pandemic he has been involved in a series of studies related to epidemiological aspects of COVID-19 including bacterial and fungal superinfections complicating severe COVID-19. He was the chair of ESCMID COVID-19 treatment guidelines. In 2021 he received recognition as top reviewer for Clinical Microbiology and Infection.

Dr. Bartoletti will receive his award at ECCMID 2022 during the Special Session "Young Investigator Awards for Research in CM and ID" (Saturday, 23 April 2022, 11:00 in Hall B) and he will give a presentation entitled:
"Epidemiology and clinical management of infections in patients with liver cirrhosis".

Timothy Rawson, London, United Kingdom



Tim is an NIHR Academic Clinical Fellow in Infectious Diseases and Medical Microbiology and Honorary Clinical Lecturer at Imperial College London. He completed his PhD in 2018 exploring personalised antimicrobial management in secondary care. In 2017 he was awarded the British Infection Association (BIA) Barnett Christie Award for Excellence in Original Research. Tim currently works within the Centre for Antimicrobial Optimisation (CAMO) at Imperial College London and is the Research Theme Lead for Precision Prescribing in the NIHR Health Protection Research Unit in Healthcare Associated Infections and Antimicrobial Resistance (HPRU in HCAI and AMR).

Tim's research interests focus on antimicrobial stewardship and in precision prescribing of antimicrobials. This includes the development and implementation of artificial intelligence-based clinical decision support systems, biosensor-based methods for intermittent and continuous drug monitoring, and therapeutically beneficial drug-drug interactions. During the pandemic he has been involved in investigating the impact of COVID-19 on bacterial infections and antimicrobial use and supported the development of appropriate frameworks for monitoring and surveillance.

Dr. Rawson will receive his award at ECCMID 2022 during the Special Session "Young Investigator Awards for Research in CM and ID" (Saturday, 23 April 2022, 11:00 in Hall B) and he will give a presentation entitled:
"Can artificial intelligence and real-time monitoring support optimised antimicrobial use?".

ESCMID TAE Outstanding Trainee Award 2022

The TAE Outstanding Trainee Award is intended to recognise and reward multi-skilled trainees with extracurricular activities in teaching, networking and collaboration for trainees in clinical microbiology (CM) and infectious diseases (ID).



Clare Warrel
London, United Kingdom

Clare Warrell is a Tropical Medicine/General Medicine registrar at the Hospital for Tropical Diseases, London, UK. During her specialist training she has spent time in Myanmar, India, Peru and Malawi developing clinical skills and working with incredible colleagues. In 2018, a Royal Society of Tropical Medicine and Hygiene Small Grant, combined with brilliant supervision, facilitated a clinical research project in Myanmar. A keen student and teacher, she has taught or been taught on 5 DTM&H courses in three continents. Her most widely-disseminated educational endeavour so far was as the UK Rare Imported Pathogen Laboratory registrar. Clare enthusiastically hosted weekly interactive case presentations in the Imported Fever Service Teleconferences, encouraging an increasingly international mix of educational cases and audience members, and developing a portal for recordings for those who missed the live event. Clare hopes to apply her experience, enthusiasm, collaborative spirit and energy to patients, students and colleagues in years to come.

Clare Warrel will receive her award during the TAE Trainees Day on Saturday, 23 April 2022 13:00 – 16:00, Hall D.



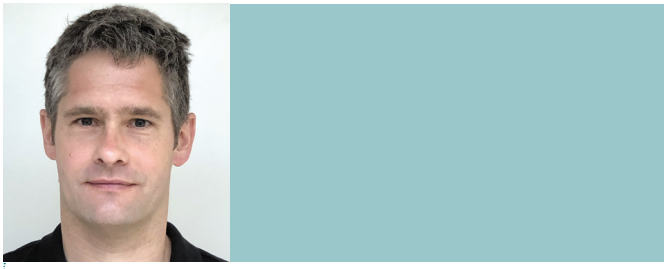
Claudio Neidhöfer
Bonn, Germany

Claudio Neidhöfer studied medicine at the University of Pavia, Italy and at the Charité in Berlin, Germany. During his studies he did research and clinical clerkships in Belgium, India, Indonesia and China. In 2019 he started his specialty training in clinical microbiology at the University Hospital in Bonn, Germany. One chapter of his doctoral dissertation won the DGHM "Highlight of Infection Prevention" Award in 2021. In parallel, he pursued studies in nanobiotechnology and devoted himself to the methods of next-generation sequencing and its bioinformatic analysis. Subsequently, he set up a microbiome research unit at his institute and trained the necessary personnel to participate in this initiative. Through his research, he established lasting collaborations between his institute and institutions such as the HBRS Microbiome Center, the ZEW Leibniz Center for European Economic Research, and the DLR Institute of Aerospace Medicine.

Claudio Neidhöfer will receive his award during the TAE Trainees Day on Saturday, 23 April 2022 13:00 – 16:00, Hall D.

ISF-ESCMID Sepsis Award

The International Sepsis Forum (ISF) is a non-profit public American charity with the mission to improve outcomes for patients with sepsis. Its award gives the recipient USD 500 and the opportunity to present their work during a session jointly organised by ISF and ESCMID.



Wolfgang Stöhr
MRC Clinical Trials Unit at UCL
Institute of Clinical Trials & Methodology
London, United Kingdom

Wolfgang Stöhr is a Senior Statistician at the MRC Clinical Trials Unit at UCL. Since joining the unit in 2004, he has been working in observational studies and clinical trials in infectious diseases, initially and for many years in HIV, and more recently in paediatric pneumonia and neonatal sepsis.

He currently works on the analysis of the NeoOBS study and on the new NeoSep1 trial.

Wolfgang Stöhr will present his work and receive the award during the ISF-ESCMID symposium on Monday, 25 April 2022 16:15 – 18:15, Hall B.

Travel Grant Awardees 2022

The ECCMID travel grant programme is sponsored by the European Society of Clinical Microbiology and Infectious Diseases (ESCMID). Grants were awarded to ESCMID Young Scientists with outstanding abstracts.

Ahmadikia, Kazem, Tehran, Iran, Islamic Republic of
Almeida-Santos, Ana C., Porto, Portugal
Alves Ferreira, Daniela, Dublin, Ireland
Andersson, Malin, Berlin, Germany
Aracil-Gisbert, Sonia, Madrid, Spain
Arca-Suárez, Jorge, A Coruña, Spain
Ayala, David, Quito, Ecuador
Badr, Mohamed Tarek, Freiburg, Germany
Becerra-Aparicio, Federico, Madrid, Spain
Benvenga, Vanni, Basel, Switzerland
Bharucha, Tehmina, Oxford, United Kingdom
Boix-Palop, Lucía, Terrassa, Spain
Bolton, William, London, United Kingdom
Brandão, Ana, Braga, Portugal
Brazal Monzo, Helena, London, United Kingdom
Brown, Jason Lee, Glasgow, United Kingdom
Büchler, Andrea C., Rotterdam, Netherlands
Buil, Jochem, Nijmegen, Netherlands
Cancela Costa, Alicia, Lausanne, Switzerland
Carrera-Salinas, Anna, Barcelona, Spain
Cassaniti, Irene, Pavia, Italy
Castañeda-Mogollón, Daniel, Calgary, Canada
Chau, Kevin, Oxford, United Kingdom
Chekrouni, Nora, Amsterdam, Netherlands
Ciaccio, Laura, Dundee, United Kingdom
Colpani, Agnese, Sassari, Italy
Cook, Aislinn, London, United Kingdom
Couto, Natacha, Bath, United Kingdom
Craddock, Hillary, Be'er Sheva, Israel
Cuénod, Aline, Basel, Switzerland
De Jonge, Nick, Amsterdam, Netherlands
De Koster, Sien, Antwerp, Belgium
Díaz-García, Judith, Madrid, Spain
Dingemans, Jozef, Maastricht, Netherlands
Duerlund, Lærke, Aalborg, Denmark
Dulfer, Elisabeth A., Nijmegen, Netherlands
Dumez, Pauline, Bern, Switzerland
Eisfeld, Jessica, Bochum, Germany
Ercegovac, Linda, Munich, Germany
Erdem, Hazal, Istanbul, Turkey
Feys, Simon, Leuven, Belgium
Fournier, Claudine, Fribourg, Switzerland
Fox-Lewis, Andrew, Auckland, New Zealand
Frasca, Federica, Rome, Italy
Fuentes-Valverde, Víctor, A Coruña, Spain
Fumarola, Benedetta, Brescia, Italy
García-Montaner, Andrea, Seville, Spain
Gomes, Anicia, Porto, Portugal
Gonçalves, Ana Beatriz, Porto, Portugal
Guðmundsdóttir, Jónína Sæunn, Tromsø, Norway
Gysin, Marina, Zurich, Switzerland
Holmgren, Agnes, Karlskrona, Sweden
Hou, Mimi M, Oxford, United Kingdom
Houkes, Karlijn, Breda, Netherlands
Ilsby, Christian, Hvidovre, Denmark
Imbert, Sebastien, Bordeaux, France
Jansen, Anouk, Nijmegen, Netherlands
Jonasson, Emma, Växjö, Sweden
Kamaliddin, Claire, Calgary, Canada
Knüsli, José, Lausanne, Switzerland
Koizumi, Ryuji, Shinjuku City, Japan
Kolenda, Camille, Lyon, France
Koning, Rutger, Amsterdam, Netherlands
Koumans, Annika, Leiden, Netherlands
Lasarte-Monterrubio, Cristina, A Coruña, Spain
Lipworth, Samuel, Oxford, United Kingdom
Lopez Montesinos, Inmaculada, Barcelona, Spain
Lucaßen, Kai, Cologne, Germany
Lucey, Mary, Galway, Ireland
Ludden, Catherine, Cambridge, United Kingdom
Ma, Kevin, Boston, United States
Maccaro, Angelo, Bologna, Italy
Macphail, Aleece, Melbourne, Australia
Mainardi, Ilaria, Milan, Italy
Mangioni, Davide, Milan, Italy
Maruri-Aransolo, Ainhize, Madrid, Spain
Menchinelli, Giulia, Rome, Italy
Muigg, Veronika, Basel, Switzerland
Murad, Ishnaiwer, Nantes, France
Nohejl, Tomas, Brno, Czech Republic
Pallotto, Carlo, Perugia, Italy
Pan, Daniel, Leicester, United Kingdom
Pavone, Paolo, Reggio Emilia, Italy
Pérez-García, Felipe, Majadahonda, Spain
Reidy, Niamh, Dublin, Ireland
Remadi, Latifa, Monastir, Tunisia
Roach, William, Middlesbrough, United Kingdom
Roch, Mélanie, Geneva, Switzerland
Rodriguez-Ruiz, Juan Pablo, Antwerp, Belgium
Rubio Garcia, Elisa, Barcelona, Spain
Russell, Neal, London, United Kingdom
Rybak, Jeffrey M., Memphis, United States
Santos-Bravo, Marta, Barcelona, Spain
Seldeslachts, Laura, Leuven, Belgium
Sismova, Petra, Brno, Czech Republic
Smith, Nicholas, Buffalo, United States
Sommer, Julian, Frankfurt am Main, Germany
Stewart, Adam, Brisbane, Australia
Sukkar, Iva, Brno, Czech Republic
Tack, Bieke, Antwerp, Belgium
Tazza, Beatrice, Bologna, Italy
Tetens, Malte, Copenhagen, Denmark
Thorlacius-Ussing, Louise, Copenhagen, Denmark
Toppings, Noah, Calgary, Canada
Turjeman, Adi, Tel Aviv, Israel
Tutino, Stefania, Genoa, Italy
Urrutikoetxea-Gutierrez, Mikel, Bilbao, Spain
Van Dijck, Christophe, Antwerp, Belgium
Van Heuverswyn, Jasper, Stockholm, Sweden
Van Soest, Thijs, Amsterdam, Netherlands
Van Veen, Anneloes, Rotterdam, Netherlands
Vázquez-Ucha, Juan Carlos, A Coruña, Spain
Verberk, Janneke, Utrecht, Netherlands
Weehuizen, Jesper M., Utrecht, Netherlands
Wetzstein, Nils, Frankfurt, Germany
Wijnant, Gert-Jan, Brussels, Belgium
Wissel, Emily, Atlanta, United States
Xanthopoulou, Kyriaki, Cologne, Germany
Yi, Qiao-Lian, Beijing, China
Yin, Nicolas, Brussels, Belgium

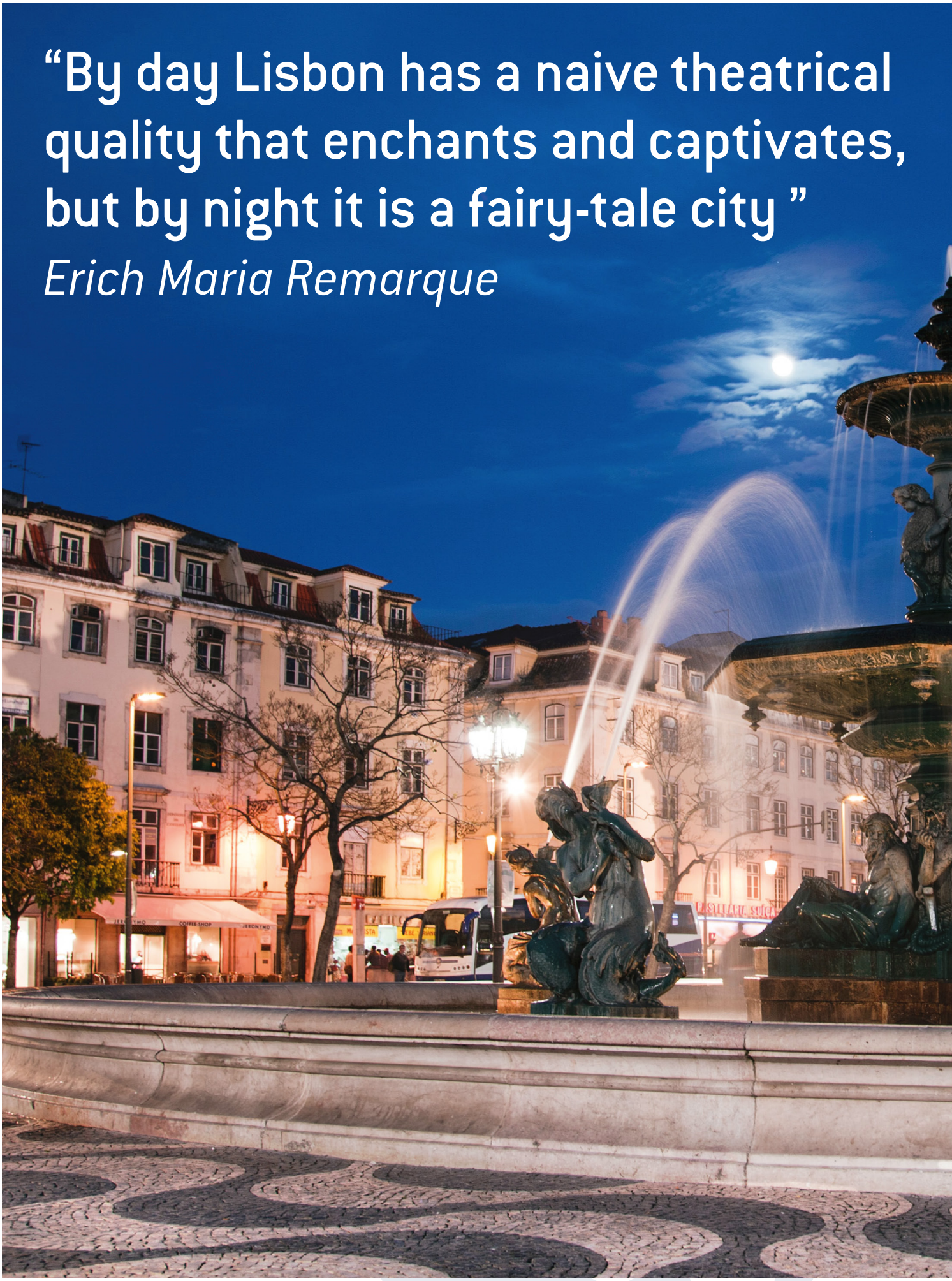
Outreach Grant Awardees 2022

ESCMID is proud to continue the new grant with funding from the Bill & Melinda Gates Foundation aimed at supporting and promoting ECCMID participation from persons residing in low- and lower middle-income countries.
We are pleased to announce that ESCMID awarded 86 ECCMID outreach grants to support participants from LMICs to attend ECCMID 2022!

Abila, Derrick Bary, Uganda
Abubakar, Aisha, Nigeria
Acolatse, Joseph, Ghana
Adhikari, Anurag, Nepal
Agrawal, Umang, India
Al-Eryani, Hesham, Yemen
Arunasalam, Shiyamalee, Sri Lanka
Azimdine, Habib, Madagascar
Babar, Zaheer, Pakistan
Bannour, Badra, Tunisia
Bannour, Marwa, Tunisia
Basu, Sulagna, India
Berga, Anteneh, Ethiopia
Choudhari, Sonali, India
Ebah Oben, Brandon, Cameroon
Elhaddad, Nihel, Tunisia
Fekrijaski, Sajjad, Iran
Fernando, Tharushi, Sri Lanka
Filonenko, Halyna, Ukraine
Fonseka, Amanda, Sri Lanka
Gahol, Ryan Joseph, Philippines
Galappaththi, Malshi, Sri Lanka
Garg, Rahul, India
Ghadarjani, Shohreh, Iran
Gharbi, Manel, Tunisia
Gharibi, Somayyeh, Iran
Gnekou Ngomseu, Ulrich Francine, Cameroon
Gupta, Nitin, India
Haq, Zoya, Pakistan
Hasan, Md Jahidul, Bangladesh
Imen, Bannour, Tunisia
Ishchenko, Oksana, Ukraine
Kachule, Mphatso, Malawi
Karki, Sumeena, Nepal
Karn, Mitesh, Nepal
Kaur, Taranjot, India
Kaweesa, Daniel, Uganda
Khedr, Reham, Egypt
Khodavaisy, Sadegh, Iran
Kisuza, Ruth, Uganda
Koffi, David, Cote d'Ivoire
Konstantynovska, Olha, Ukraine
Kuate Ngouanom, Marius Paulin, Cameroon
Kumar, Deepak, India
Kumar, Prakash, India
Kumwenda, Geoffrey, Malawi
Kunwar, Digbijay, Pakistan
Kusumawati, R. Lia, Indonesia
Lalainasoa Odile, Rivoarilala, Madagascar
Leinkpor, Alexander, Liberia
Liyanapathirana, Veranja, Sri Lanka
Lyvannak, Sam, Cambodia
Maduna, Liteboho, Lesotho
Mandal, Dibyakanti, India
Martani, Okla Sekar, Indonesia
Mlouki, Insaf, Tunisia
Moshi, Lilian, Tanzania
Namoune, Rachida, Algeria
Nasir, Nosheen, Pakistan
Ndabashinze, Rodrigue, Burundi
Nepal, Roshan, Nepal
Nigam, Rishi Kumar, India
Nisansala, Thilini, Sri Lanka
Noor, Bushran, Sri Lanka
Otaigbe, Idemudia, Nigeria
Pandey, Deeksha, India
Rabenandrasana, Mamitina Alain Noah, Madagascar
Rafetrarivony, Lala, Madagascar
Ragueh, Ayan, Djibouti
Rahaingosoamamitiana, Corinne, Madagascar
Randriamanga, Norohasina Fanja, Madagascar
Richard, Ramde, Burkina Faso
Rohit, Anusha, India
Satpathy, Sudhir Kumar, India
Senarathne, Pavani, Sri Lanka
Sethuraman, Nandini, India
Singh, Minu, Nepal
Stepanskyi, Dmytro, Ukraine
Tania, Tryna, Indonesia
Tine, Alioune, Sénégal
Traore, Haoua, Burkina Faso
Uniyal, Bandana, India
Usman, Yahaya, Nigeria
Vasanth, Shruthi, India
Yehouenou, Carine, Benin
Yonga, Paul, Kenya

Programme Book Grantees 2022

Marija Kusulja, Zagreb, Croatia
Musab Albsheer, Khartoum, Sudan
Lilia Aparecida Marques Da Silva, Rio de Janeiro, Brazil
Usman Usar, Kano, Nigeria
Ming-Hsien Chiang, Taipei, Taiwan ,Republic of China
Areena Hoda Siddiqui, Lucknow, India
Silvia Serrano Alvarez, Havana, Cuba
Hussain Ali, Islamabad, Pakistan
Eya Ben Salah, Monastir, Tunisia
Supram Hosuru Subramanya, Pokhara, Nepal
Junior Mudji E'Kitiak, Kwiiu, Congo
Moein Zangiabadian, Tehran, Iran


“By day Lisbon has a naive theatrical quality that enchants and captivates, but by night it is a fairy-tale city ”
Erich Maria Remarque


Hotel

Scientific Programme

CME Accreditation

Educational Objectives

After attending this event, participants should be able to:

- Address individual needs in compliance with their continuous professional development (CPD) plan
- Exchange ideas and knowledge in the fields of clinical microbiology and infectious diseases across continents, institutions, and individuals
- Discuss the latest research outcomes in the fields of antimicrobials, molecular biology, virology and infection control
- Discuss the latest research outcomes in the fields of infectious diseases and clinical microbiology
- Discuss outcomes of the latest studies in Europe in the field of public health and vaccines
- Summarize good and bad immune responses
- Discuss diagnostics, therapeutics and prevention of infectious diseases

Target Audience

ECCMID 2022 is the global meeting place for microbiologists, infectious disease specialists and related fields. Because of the diverse, clinically focused educational offering, participants can tailor the curriculum to meet the needs of international clinicians of all levels of experience.

Accreditation Statement and Credit Designation

European Accreditation Council for Continuing Medical Education (UEMS/EACCME)

Accreditation by the EACCME® confers the right to place the following statement in all communication materials including the event website, the event programme and the certificate of attendance. The following statements must be used without revision:

The 32nd European Congress of Clinical Microbiology & Infectious Diseases, Lisbon, Portugal, 23 April 2022 – 26 April 2022 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 30 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 CreditsTM. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

Credit Breakdown

Each participant should claim only those hours of credit that they actually spent in the educational activity.

Day	Max Credits
Saturday, 23 April 2022	8
Sunday, 24 April 2022	8
Monday, 25 April 2022	8
Tuesday, 26 April 2022	6
Total Credits	**30**

Deadline to claim CME points: 10 July 2022

To Receive Your CME/CPD Certificate

For CME Certificates participants need to connect to the CME Platform (cme.eccmid.org) and log in with their ESCMID account. The points of the sessions need to be claimed individually and a general survey needs to be **filled out until 10 July 2022.**

Disclosure and Resolution of Personal Conflicts of Interest

In accordance with CME/CPD accreditation criteria and standards for commercial support to ensure balance, independence, objectivity, and scientific rigour, those in control of the educational content must disclose potential or actual conflicts of interest. Disclosure information is evaluated and conflicts of interest resolved. Disclosure is made to participants prior to the activity. Participants will be asked on the evaluation to assess the objectivity and independence of the event.

www.eccmid.org/scientific_programme/cmecpd_accreditation

Introduction to the Scientific Programme

Invited Programme

Keynote and Award Lectures (KN)
Renowned experts will share their expertise in their keynote lectures of 60 minutes. Some Keynote Lectures may take the form of a Keynote Scientific Interview featuring an interactive discussion between the keynote speaker and an experienced chairperson who will act as an interviewer.

Symposia (1h/2h)
These symposia convene renowned speakers from all over the world and cover a wide range of topics in the fields of clinical microbiology, infectious diseases and infection control. A number of symposia are arranged in cooperation with ESCMID study groups, while others are jointly organised with partnering societies or organisations. Some of the symposia give an overview over recent developments and research results, while others review the literature or are presented as pro-con debates. Symposia arranged by the industry are organised in close cooperation with the ECCMID Programme Committee. For details please see the Integrated Symposia and Exhibition Guide.

Educational Workshops
Educational Workshops are organised in cooperation with ESCMID study groups and partnering organisations. They contain review talks and/or case studies that lend themselves to discussions. The goal of this format is education through interactivity.

Meet-the-Expert Sessions
Meet-the-Expert sessions led by recognised authorities in their fields. After a short presentation the experts will open the session for discussion, which will be driven by active audience participation.

TAE Trainees Day (TD)
On Saturday, 23 April 2022, 13.00 – 16.00 the Trainee Association of ESCMID (TAE) will organise the Trainees Day, a session dedicated to the unique needs of trainees. A main and popular part of the session is the round tables, which give younger professionals the chance to talk to experts in an informal setting. Participants can sign up for one of the expert tables of their choice to talk about their career. This session will take place in Hall D.

Open Forums
Open forums are one-hour sessions that take place in Arenas where speakers discuss with the audience ideas and views on a particular issue. Typically, Open Forums feature controversies and policy-related aspects. Speakers can make use of electronic presentations, but that is not mandatory. The allocation of time to presentations and discussions is tailored for each session, depending on its specific agenda.

Pipeline corners
This session type allows small innovative pharmaceutical companies, with early-stage diagnostic or therapeutic solutions, to present their products to a wider audience. For details on Pipeline Corners, please see the Exhibition Guide.

Abstract Programme

Oral Sessions (1h/2h)
These sessions are created by the ECCMID Programme Committee from the top-rated abstracts. These sessions are chaired by one or two experts on the topic. The programme features 4 types of oral sessions:

(I) one-hour oral sessions
(five speakers; 12 minutes per speaker including discussion)

(II) two-hour oral sessions
(ten speakers; 12 minutes per speaker including discussion).

(III) one-hour mini-oral flash sessions
(9 speakers; 6 minutes per speaker including Q&A; closing 6 min discussion at the end of each session) -each speaker can present a maximum of three slides.

(IV) one-hour case sessions
(5 speakers; 11 minutes per speaker including Q&A; closing 5 min discussion at the end of each session)

Virtual Walk Through

Virtual Walk Through poster sessions are meant to review interesting abstracts which were selected for poster sessions on a specific topic. This session is 1-hour long and will take place in Arenas. A moderator will give a short presentation of around 20 min, presenting the scientific background of the session topic. Afterwards, up to ten selected posters will be presented by a reviewer during the following 20 min. The session will be closed by an informal discussion between moderator, reviewer, and the audience. Authors of the presented poster will be invited to participate, but their presence is not mandatory.

Poster Sessions

Poster Sessions feature all accepted abstracts that have not been assigned to oral sessions. All posters will be available online as ePosters, if uploaded to the platform. Depending on presenters' choice, they will be also available as paper posters. Posters are organised per topical subcategory both onsite and on the online platform. Paper posters are displayed in the poster area, which is open to all onsite delegates holding a full congress registration badge. Paper Poster authors must be present at their posters for discussion during their Paper Poster Session (see page 372 for details). The presenting author is indicated by an asterisk (*).

The following colour codes have been used throughout the programme:

- Symposia (1h/2h)
- Educational Workshops & Meet-the-Expert
- Keynote Lectures & Awards, Keynote Scientific Interviews
- Oral & Case Sessions (1h/2h)
- Integrated Symposia & Pipeline Corners (See Industry Guide)
- Open Forums & Virtual Walk Throughs
- TAE Trainees Day (TD)

Sessions of particular interest to:

- (ID) Infectious Disease specialists
- (CM) Clinical Microbiologists
- (IC) Infection Control specialists
- (PH) Public Health specialists

Disclaimer

The 32nd ECCMID programme in this document reflects the state of the programme as of 5th March 2022. Changes may have occurred that are not reflected in this document, including, but not limited to: changes in speakers, chairs, talk titles, withdrawn presentations and late-breakers. For the current programme please visit our website (www.eccmid.org) and the ECCMID platform (online.eccmid.org). ESCMID takes no responsibility for misspelled names of abstract presenters, as they have been entered by the submitters themselves.

ESCMID Study Group and other meetings

If you cannot find the meeting you are looking for, contact our staff at the ESCMID booth!
All Fernando Pessa Meeting Rooms are located in the Altice Arena.
Please see page 12-13 for the overview of the full list of ESCMID Study Groups.

Saturday, 23 April 2022

Time	Meeting Title	Room
09.00 – 10.00	ESGBIES Meeting	Fernando Pessa 1
09.00 – 10.00	ESGREV Meeting	Fernando Pessa 4
10.00 – 11.00	ESGMAC Meeting	Fernando Pessa 3
11.00 – 12.00	ESGMYC Meeting	Fernando Pessa 1
13.00 – 14.00	EPASG Meeting	Fernando Pessa 1
14.00 – 15.00	ESGBOR Meeting	Fernando Pessa 3
15.00 – 16.00	EFISG Meeting	Fernando Pessa 1
16.00 – 17.00	ESGAI Meeting	Fernando Pessa 3
16.00 – 18.00	Young Scientist Reception	Hall D Balcony
17.00 – 18.00	ESGARS Meeting	Fernando Pessa 1

Monday, 25 April 2022

Time	Meeting Title	Room
09.00 – 10.00	ESGICH Meeting	Fernando Pessa 1
10.00 – 11.00	ESGHAMI Meeting	Fernando Pessa 3
10.30 – 11.30	ESGAP Meeting	Fernando Pessa 1
12.00 – 13.30	EUCIC General Assemly	Fernando Pessa 1
14.00 – 15.00	EVASG Meeting	Fernando Pessa 4
14.00 – 15.00	ESGNTA Meeting	Fernando Pessa 3
15.00 – 16.00	ESGNI Meeting	Fernando Pessa 1
16.00 – 17.00	ESGVM Meeting	Fernando Pessa 3
16.30 – 18.00	ESCMID Council Meeting	Fernando Pessa 2
17.00 – 18.00	ESGEM Meeting	Fernando Pessa 1
18.30 – 20.00	General Assembly	Hall H (FIL)

Sunday, 24 April 2022

Time	Meeting Title	Room
09.00 – 10.00	ESGCD Meeting	Fernando Pessa 1
10.00 – 11.00	ESGCP Meeting	Fernando Pessa 3
11.00 – 12.00	ESGIAI Meeting	Fernando Pessa 1
12.30 – 13.30	EUCAST General Committee Meeting	Fernando Pessa 4
13.00 – 14.00	ESGB Meeting	Fernando Pessa 1
14.00 – 15.00	ESGFOR Meeting	Fernando Pessa 4
14.00 – 15.00	ESGLI Meeting	Fernando Pessa 3
14.30 – 15.30	VetCAST Open Meeting	Lisbon (FIL/PT)
15.00 – 16.00	ESGS Meeting	Fernando Pessa 1
15.00 – 16.30	EITaF Open Meeting	Fernando Pessa 2
16.00 – 17.00	EFWISG Meeting	Fernando Pessa 3
16.15 – 18.15	President Press Conference	Hall D (Altice)
17.00 – 18.00	ESGMD Meeting	Fernando Pessa 1

Tuesday, 26 April 2022

Time	Meeting Title	Room
09.00 – 10.00	ESGIB Meeting	Fernando Pessa 1
10.00 – 11.00	ESGIE Meeting	Fernando Pessa 4
10.00 – 11.00	ESGVH Meeting	Fernando Pessa 3
11.00 – 12.00	ESGITM Meeting	Fernando Pessa 1
13.00 – 14.00	ESGCIP Meeting	Fernando Pessa 1
14.00 – 15.00	ESGPHM Meeting	Fernando Pessa 3

Please note: Some Meetings are held in hybrid format, please contact the meeting organiser for log-in details. **All times indicated on this page are local Portuguese times (WEST).**

What ESCMID can do for you around the clock



ESCMID

MANAGING INFECTIONS
PROMOTING SCIENCE

www.escmid.org

Scientific Programme Overview
Saturday, 23 April 2022

Hall A	Hall B	Hall C	Hall D	Hall E	Hall F
08:30 – 11:30	**08:30 – 10:30**	**08:30 – 10:30**		**08:30 – 10:30**	
EW006	OS011	SY001		EW007	
EUCAST Educational Workshop (CM)	New insights on typing: viewing the genome above and below the infra red spectrum	Infections in patients receiving new immunomodulatory therapies (ID)		Advances in *Clostridioides difficile* infection outbreak prevention and control (IC)	
	11:00 – 12:00	**11:00 – 12:00**		**11:00 – 12:00**	**11:00 – 12:00**
	SY015	OS020		SY016	OS021
	Young Investigator Award for Research in CM and ID (ID) (CM)	Novel insights into herpetic infections		COVID-19 beyond the clinic: the importance of public engagement (PH)	Digital health applications for CM/ID
			13:00 – 16:00		
13:30 – 14:30		**13:30 – 15:30**	TAE Day	**13:30 – 14:30**	**13:30 – 14:30**
KN032		SY033	TAE Day	SY034	OS038
Clinical research in infectious endocarditis: past, present, and future (ID)		The dark side of Gram-negative respiratory infections in the ICU (CM) (IC)		Year in Clinical Microbiology (CM)	Clinical aspects of HIV infection
14:45 - 15:45	**14:45 - 15:45**			**14:45 - 15:45**	**14:45 - 15:45**
KN043	OS047			SY044	SY045
Pathogens and the microbiome: antibiotics at the crossroads (CM)	A post-COVID syndrome: a never-ending story			Respiratory viral infections in hospital settings (ID) (PH)	One Health and mycology: what are the significant and potential interactions between agriculture and human health?
	16:15 – 18:15	**16:15 – 18:15**		**16:15 – 18:15**	**16:15 – 18:15**
	EW052	OS057		SY051	EW053
	COVID-19 vaccination of special populations: protecting the vulnerable (PH)	Digging in the molecular epidemiology of MDR Enterobacterales		Molecular-guided therapy for sexually transmitted infections (ID)	Opportunistic infections of the central nervous system (ID)

All times are specified in WEST (UTC +1). If attending online, please convert to your local timezone.

Colour Key

Educational Workshops, Meet-the-Expert Sessions | Symposia (1h/2h) | Oral sessions (1h/2h)
Keynote Lectures | Open Forum & Virtual Walk Throughs | TAE Day
Integrated Symposia & Pipeline Corners are not detailed in this book. Please refer to the Industry Guide for session details.

Sessions specifically interesting for:

(ID) Infectious Disease specialists (CM) Clinical Microbiologists (IC) Infection Control specialists (PH) Public Health specialists

Hall G	Hall H	Hall I	Hall J	Hall K	Hall L
08:30 – 10:30	**08:30 – 10:30**	**08:30 – 10:30**	**08:30 – 10:30**	**08:30 – 10:30**	**08:30 – 10:30**
SY002	EW008	SY003	OS012	OS013	SY004
Fungal infections from head to toes (ID)	New perspectives on Schistosomiasis in Europe (PH)	Genomics underpin the clinical and public health management of tuberculosis (PH)	COVID-19 diagnostics: new and newer	Advances in prevention of urinary catheter and central lineassociated bloodstream infections	Challenges and opportunities in CM/ID training and practice (ID) (CM)
11:00 – 12:00	**11:00 – 12:00**	**11:00 – 12:00**	**11:00 – 12:00**	**11:00 – 12:00**	**11:00 – 12:00**
OS022	OS023	SY017	ME018	ME019	OF025
Rapid diagnostic tools inform prudent antibiotic use	New Insights about PK/PD of antifungal agents	Pathogenic *Escherichia coli:* the emergence of crosspathotypes from the genomic continuum (CM)	Interactive paediatric cases (ID)	How to apply Digital PCR in clinical microbiology (CM)	Innovative preclinical PK/PD studies
					12:15 - 13:15
					IS01
					The lab in the future: how COVID-19 taught us the value of a transcendent laboratory service?
13:30 – 14:30	**13:30 – 14:30**	**13:30 – 15:30**	**13:30 – 15:30**	**13:30 – 14:30**	**13:30 – 15:00**
SY035	OS039	EW037	SY036	OS040	IS06
Exploring the urinary microbiome: facts, figures and therapeutic potential (CM)	New mechanisms of antifungal resistance in emerging yeast pathogens	Getting your CM/ID paper published (ID) (CM)	Making decisions on antibiotic therapy in difficult situations (ID)	Ever challenging malaria	Role of monoclonal antibodies (mAbs) in the evolution of COVID-19 treatment
14:45 - 15:45	**14:45 - 15:45**			**14:45 - 15:45**	
SY046	OF049			OS048	
Should you manage bloodstream infection differently in immunocompromised patients? (ID)	Targets for antimicrobial stewardship			Modelling host-pathogen interaction in persistent infections	
	16:15 – 18:15	**16:15 – 18:15**		**16:15 – 18:15**	**16:15 – 18:15**
	OS058	EW054		EW055	IS09
	Current treatment approach to COVID-19	What is new in nocardiosis? (ID)		Should economical aspects be considered for CM/ID/ICP guidelines? (ID) (CM)	Best of both worlds: maximising serotype coverage and quality of immune responses for pneumococcal disease prevention

All times are specified in WEST (UTC +1). If attending online, please convert to your local timezone.

Scientific Programme Overview
Saturday, 23 April 2022

Hall M	Hall N	Hall O	Hall P	Hall Q
08:30 – 10:30	**08:30 – 10:30**		**08:30 – 10:30**	**08:30 – 10:30**
EW009	OS014		SY005	EW010
Novel predictive and diagnostic tools in severe viral and bacterial infections (ID)	Soft tissue, bone and joint infections: a treatment update		New insights into phages: current challenges and future developments (ID)	Understanding COVID-19 lung disease (ID)
11:00 – 12:00	**11:00 – 12:00**	**11:00 – 12:00**		**11:00 – 12:00**
OS024	OF026	OF027		OF028
COVID-19 in special populations	Treatment of XDR bacteria: highway to hell	Mechanistic insights into host responses to important pathogens		COVID-19 treatment insights and advances
	12:15 - 13:15	**12:15 - 13:15**	**12:15 - 13:15**	**12:15 - 13:15**
	IS02	IS03	IS04	IS05
	Protecting vulnerable populations from COVID-19	Sample self-collection, a lesson gained during the COVID pandemic	A spotlight on antibiotic resistance in community settings: uncomplicated urinary tract infections	Leveraging the host response to acute infection to create new diagnostic and prognostic tools
13:30 - 14:30	**13:30 - 15:30**	**13:30 - 15:30**	**13:30 - 15:30**	
OS041	IS34	IS07	IS08	
Novel approaches to antimicrobial susceptibility testing	mRNA science: a paradigm shift to address unmet medical needs	Building on a strong foundation to address a new era to help protect against pneumococcal disease	COVID-19 vaccines: lessons learnt and prospects in 2022	
16:15 - 18:15	**16:15 - 18:15**	**16:15 - 18:15**	**16:15 - 18:15**	**16:15 - 18:15**
IS10	EW056	IS11	IS12	IS13
MDR Gram-negative infections in a pandemic world: contemporary treatment options	The quest for reliable biofilm models: how to narrow the gap to clinical implementation? (CM)	Changing microbiology: focus to critical infectious diseases by state-of-art technologies	Expected impact on clinical outcomes of early identification and early management of MDR Gram-negative infections	The usefulness of various point-of-care tests against evolving COVID-19

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Colour Key

Educational Workshops, Meet-the-Expert Sessions | Symposia (1h/2h) | Oral sessions (1h/2h)
Keynote Lectures | Open Forum & Virtual Walk Throughs
Integrated Symposia & Pipeline Corners are not detailed in this book. Please refer to the Industry Guide for session details.

Sessions specifically interesting for:

(ID) Infectious Disease specialists (CM) Clinical Microbiologists (IC) Infection Control specialists (PH) Public Health specialists

Arena 1 & 2

Session Time	Session			Arena
11:00 - 12:00	VW029	Virtual Walk Through	Hotchpotch of RTI	**2**
12:15 - 13:15	F0031	Open Forum	Ethical issues in infectious diseases	**1**
13:30 - 14:30	VW042	Virtual Walk Through	Under the hood: mechanisms of action of new antibacterial agents	**2**
14:45 - 15:45	VW050	Virtual Walk Through	Wise use of bioinformatics to study diversity and transmission in endemic and outbreak settings	**1**





ESCMID WHO Observership

Visit the WHO Regional Office for Europe!

A group of 10 observers (ESCMID members) will undertake a two-day observership programme at the WHO Regional Office for Europe, Division of Health Emergencies and Communicable Diseases (DEC) in Copenhagen, Denmark.

The next application period for this two-day visit will be announced via the ESCMID website as well as the ESCMID social media channels.

www.euro.who.int

ESCMID

World Health Organization
REGIONAL OFFICE FOR Europe

Scientific Programme
Saturday, 23 April 2022

ID

SY001 **08:30 - 10:30** **Hall C**

Symposium

Infections in patients receiving new immunomodulatory therapies

Chairs *Oliver A. Cornely (Cologne, Germany)*
Carlota Gudiol (Barcelona, Spain)

S0001 **08:30** **Patients receiving immune check-point inhibitors**
Gil Redelman-Sidi (New York, United States)

S0002 **09:00** **Patients receiving CAR-T therapy**
Andrea Henden (Herston, Australia)

S0003 **09:30** **Non-neutropenic infection associated risk in patients with haematological malignancies**
Monica Slavin (Melbourne, Australia)

S0004 **10:00** **Patients receiving therapy for systemic or organ-specific autoimmune diseases**
Mario Fernandez Ruiz (Madrid, Spain)

ID

SY002 **08:30 - 10:30** **Hall G**

Symposium

Fungal infections from head to toe

Chairs *Anuradha Chowdhary (Delhi, India)*
Emmanuel Roilides (Thessaloniki, Greece)

S0005 **08:30** **Emerging treatment failure in dermatophytosis: genotyping and resistance testing of the *Trichophyton mentagrophytes* species complex**
Philipp Bosshard (Zurich, Switzerland)

S0006 **09:00** **Update on *Tinea capitis*: epidemiology, symptoms and treatment**
Pietro Nenoff (Mölbis, Germany)

S0007 **09:30** **Update on diagnosis and treatment of recurrent vulvovaginal candidiasis**
Riina Richardson (Manchester, United Kingdom)

S0008 **10:00** **The role of *Malassezia* in health and disease**
Ditte Marie Lindhardt Saunte (Roskilde, Denmark)

Co-organised with: ESCMID Fungal Infection Study Group (EFISG)

PH

SY003 **08:30 - 10:30** **Hall I**

Symposium

Genomics underpin the clinical and public health management of tuberculosis

Chairs *Sebastien Gagneux (Basel, Switzerland)*
Robyn Lee (Toronto, Canada)

S0009 **08:30** **Understanding TB pathogenicity and host interactions using genomic approaches**
Stefan Niemann (Borstel, Germany)

S0010 **09:00** **Genomics in the diagnosis of drug resistance in TB**
Paolo Miotto (Milano, Italy)

S0011 **09:30** **Integrating genomics into TB management in an African setting**
Yonas Kassahun (Addis Ababa, Ethiopia)

S0012 **10:00** **New tools for genomic prediction and mapping of resistance in TB**
Timothy Walker (Ho Chi Minh City, Vietnam)

ID CM

SY004 **08:30 - 10:30** **Hall L**

Symposium

Challenges and opportunities in CM/ID training and practice

Chairs *Emmanuelle Cambau (Paris, France)*
Valentijn Schweitzer (Utrecht, Netherlands)

S0013 **08:30** **How to excel and become a leader in CM, ID or IC?**
Truls Michael Leegaard (Lørenskog, Norway)

S0014 **09:00** **Developing effective communication skills: social media and networking**
Muge Cevik (Edinburgh, United Kingdom)

S0015 **09:30** **Practising Clinical Microbiology in low-resource settings**
Makeda Semret (Montreal, Canada)

S0016 **10:00** **Practising Infectious Diseases in low-resource settings**
Sipho Kenneth Dlamini (Cape Town, South Africa)

Co-organised with: ESCMID Professional Affairs Subcommittee (PAS), Trainee Association of ESCMID (TAE)

Presentations in light grey were not registered at the time of publishing.

ID

SY005 **08:30 - 10:30** **Hall P**

Symposium

New insights into phages: current challenges and future developments

Chairs *Joana Azeredo (Braga, Portugal)*
Jean-Paul Pirnay (Brussels, Belgium)

S0017 **08:30** **Preparation standards for personalised phage therapy**
Kiljunen Saija (Helsinki, Finland)

S0018 **09:00** **Immune responses and phage: how phage pharmacokinetics is shaped by immunological factors**
Krystyna Dabrowska (Warsaw, Poland)

S0019 **09:30** **Clinical trials with phages: design challenges and regulatory issues**
Shawna Mccallin (Schlieren, Switzerland)

S0020 **10:00** **Clinical evidence for the efficacy of phages (so far)**
Tristan Ferry (Lyon, France)

Co-organised with: ESCMID Study Group for Non-traditional Antibacterial Therapy (ESGNTA)

CM

EW006 **08:30 - 11:30** **Hall A**

Educational Workshop

EUCAST Educational Workshop

Chairs *Alasdair P. MacGowan (Bristol, United Kingdom)*
Arjana Tambic Andrasevic (Zagreb, Croatia)

W0021 **08:30** **EUCAST Update**
Christian Giske (Stockholm, Sweden)

W0022 **09:00** **Putting certainty into antimicrobial susceptibility testing**
Gunnar Kahlmeter (Växjö, Sweden)

W0023 **09:30** **PK/PD breakpoints in the EUCAST breakpoint tables**
Shampa Das (Liverpool, United Kingdom)

W0024 **10:00** **Revising aminopenicillin breakpoints**
John D. Turnidge (Hawthorn, Australia)

W0025 **10:30** **Screening and testing for antifungal resistance**
Maiken Arendrup (Copenhagen, Denmark)

Co-organised with: EUCAST Steering Committee, ESCMID Study Group for Antimicrobial Resistance Surveillance (ESGARS)

IC

EW007 **08:30 - 10:30** **Hall E**

Educational Workshop

Advances in *Clostridioides difficile* infection outbreak prevention and control

Chairs *Sarah Tschudin Sutter (Basel, Switzerland)*
Lutz Von Müller (Coesfeld, Germany)

W0026 **08:30** **Is there a role for ribotyping in the WGS era?**
Windy Tanner (New Haven, United States)

W0027 **09:00** **Any *Clostridium* lurking in your patient room? The role of the community environment in *C. difficile* outbreaks**
Sandra Janezic (Maribor, Slovenia)

W0028 **09:30** **Going with the FLO: frontline ownership is crucial for *C. difficile* outbreak prevention and management**
Gianluca Ianiro (Rome, Italy)

Co-organised with: ESCMID Study Group for *Clostridioides difficile* (ESGCD), ESCMID Study Group for Nosocomial Infections (ESGNI)

PH

EW008 **08:30 - 10:30** **Hall H**

Educational Workshop

New perspectives on schistosomiasis in Europe

Chairs *Andreas Neumayr (Basel, Switzerland)*
Lisette Van Lieshout (Leiden, Netherlands)

W0029 **08:30** **Gaps in managing schistosomaisis in Europe**
Eyrun Kjetland (Oslo, Norway)

W0030 **09:00** **One Health perspective on schistosomiasis: prevalence and distribution of schistosomiasis in a multi-host system**
Joanne Webster (Hatfield, United Kingdom)

W0031 **09:30** **The toolkit for diagnosis and morbidity assessment of schistosomiasis: lab and beyond**
Francesca Tamarozzi (Negrar, Italy)

Co-organised with: ESCMID Study Group for Clinical Parasitology (ESGCP)

ID

EW009 **08:30 - 10:30** **Hall M**

Educational Workshop

Novel predictive and diagnostic tools in severe viral and bacterial infections

Chairs *Barbara C. Kahl (Münster, Germany)*
Mi-Na Kim (Seoul, Korea, Republic of)

W0032 **08:30** **Living colours of infection and inflammation**
Olivier Gheysens (Leuven, Belgium)

W0033 **09:00** **Hypercytokinaemia in critically ill COVID-19 as indicator of cell death and secondary bacterial infections**
Srikanth Mairpady Shambat (Zurich, Switzerland)

W0034 **09:30** **Specific clinical phenotypes of necrotising soft-tissue infection predicted by discriminatory biomarker signatures**
Anna Norrby-Teglund (Stockholm, Sweden)

ID

EW010 **08:30 - 10:30** **Hall Q**
Educational Workshop

Understanding COVID-19 lung disease

Chairs *Adrian John Brink (Cape Town, South Africa)*
Veroniek Saegeman (Sint-Niklaas, Belgium)

W0035 **08:30** **Infectious disease and public health perspective**
Raquel Duarte (Porto, Portugal)

W0036 **09:00** **ICU perspective**
Sascha David (Zurich, Switzerland)

W0037 **09:30** **Pathologist`s perspective**
Domitille Callon (Reims, France)

Co-organised with: ESCMID Study Group for Forensic and Postmortem Microbiology (ESGFOR), Spanish Society of Forensic Pathologists (SEPAF), Spanish Society of Pathologists (SEAP)

OS011 **08:30 - 10:30** **Hall B**
2-Hour Oral Session

New insights on typing: viewing the genome above and below the infrared spectrum

Chairs *Natacha Couto (Bath, United Kingdom)*
Mario Ramirez (Lisbon, Portugal)

00038 **Early identification of an outbreak involving OXA-48 producing *Klebsiella pneumoniae* using Fourier transform infrared (FT-IR) spectroscopy typing**
C. Pitart (Barcelona, Spain), Y. Zboromyrska, J. Bosch, E. Rubio, M. Piquet, B. Torralbo, I. Fortes, S. Valls, L. Rodriguez, G. Santana, A. Del Río, J.A. Martinez, A. Vilella, A. Soriano, C. Casals-Pascual, I. Roca, J. Vila*

00039 **Development and evaluation of a new typing system for *Treponema pallidum***
F. González-Candelas (Paterna, Spain), M. Diaz-Pla, P. Pospíšilová, D. Šmajs, T. Kawahata, P.P. Bosshard, K. Nieselt, N. Arora, L. Giacani*

00040 **Comparison of a novel whole genome multilocus sequence typing (wgMLST) schema for *Streptococcus pyogenes* with other typing methods**
A. Friães (Lisbon, Portugal), R. Mamede, M. Ferreira, J. Melo-Cristino, M. Ramirez*

00041 **Turning ATR FT-IR spectroscopy into an easy, quick and reproducible *Klebsiella pneumoniae* typing method**
Â. Novais (Porto, Portugal), A.B. Gonçalves, T.G. Ribeiro, A.R. Freitas, G. Mendéz, L. Mancera, A. Read, V. Alves, L. López-Cerero, J. Rodríguez-Baño, Á. Pascual, L. Peixe*

00042 **Rapid *Clostridiodes difficile* ribotyping based on MALDI-TOF MS and machine learning**
A. Candela (A Coruña, Spain), D. Rodriguez-Temporal, M.J. Arroyo, M. Marin, A. Martin, L. Jimenez-Navarro, L. Alcala, G. Mendez, P. Muñoz, L. Mancera, B. Rodriguez-Sanchez*

00043 **Evaluation of Fourier-tansform infrared spectroscopy as a typing method for vancomycin-resistant *Enterococcus faecium* isolates**
J. Liese (Tübingen, Germany), S. Wolf, F. Melcharick, B. Bader, S. Peter*

00044 ***Escherichia marmotae:* a yet unrecognised *Escherichia* species and its impact for zoonotic and antimicrobial resistance transmission**
U. Binsker (Berlin, Germany), A.K. Gadicherla, A. Käsbohrer, J.A. Hammerl*

00045 **Phylogenomics of *Pseudomonas aeruginosa* isolated from mechanically ventilated patients in European intensive care units**
M. Berkell (Antwerp, Belgium), T.E. Van Der Schalk, D.E. Tabor, B.B. Xavier, C. Recanatini, L. Timbermont, P. Tedder, C. Lammens, A. Digiandomenico, B. François, H. Jafari, J. Kluytmans, A. Ruzin, J. Chastre, H. Goossens, M.T. Esser, S. Malhotra-Kumar*

00046 **Validation of an optimised whole genome sequencing workflow for the detection of virulence factors and resistance to methicillin of *Staphylococcus aureus* strains in a national reference laboratory**
C. Kolenda (Lyon, France), P. Martins-Simoes, C. Dupieux-Chabert, A.G. Ranc, B. Youenou, L. Beraud, C. Ginevra, E. Jeanne, F. Laurent, F. Vandenesch, A. Tristan*

00047 **Within host genetic variation in *Neisseria gonorrhoeae* over the course of infection**
J. De Korne-Elenbaas (Amsterdam, Netherlands), S.M. Bruisten, H.C.J. De Vries, A.P. Van Dam*

OS012 **08:30 - 10:30** **Hall J**
2-Hour Oral Session

COVID-19 diagnostics: new and newer

Chairs *Petar Velikov (Sofia, Bulgaria)*
Snjezana Zidovec Lepej (Zagreb, Croatia)

00048 **Is an increasing occurrence of SARS-CoV-2 N gene dropout variants in a frequently employed multiplex RT-PCR assay indicating a selection advantage of a new variant?**
D.F. Hilti (Buchs, Switzerland), F. Wehrli, A. Roditscheff, M. Risch, F. Rudolf, L. Lorenz, A. Egli, T. Bodmer, N. Wohlwend*

00049 **Performance of self-testing with SARS-CoV-2 antigen rapid diagnostic test in healthcare workers: a multi-centre study**
V. Zwart (Breda, Netherlands), N. Van Der Moeren, J.L. Murk, J. Stohr, J. Kluytmans, W. Van Den Bijllaardt*

00050 **Use of artificial intelligence on rapid COVID-19 diagnosis using real-time polymerase chain reaction data**
B. Baddal (Nicosia, Cyprus), T. Sanlidag, E. Özbilge*

00051 **SARS-CoV-2 detection in saliva samples from children using RT-PCR assays: a systematic review and meta-analysis of accuracy**
G. Menchinelli (Rome, Italy), G. De Angelis, A. Grossi, B. Posteraro, M. Sanguinetti*

00052 **Multi-centre clinical evaluation of a novel transcription-mediated amplification assay for SARS-CoV-2 molecular testing**
M. Fernández-Huerta (Pamplona, Spain), P. Salmerón, Y. Hernández-Hermida, J. Niubó, L. Calatayud, M.A. Domínguez, T. Pumarola, C. Ardanuy, C. Andrés, A. Antón, J. Càmara*

00053 **A 29-mRNA host response assay accurately identifies patients with COVID-19, detects bacterial co- and superinfections and predicts severity of illness at clinical presentation: a prospective multi-centre trial**
W. Bauer (Berlin, Germany), S. Glaeser, J. Borchardt, A. Peric, J. Bialas, N. Galtung, O.L.I.E.S. Liesenfeld, L. Sun, L. May, S. Ott, S. Vesenbeckh*

00054 **Clinical performance of direct RT-PCR testing of raw saliva for detection of SARS-CoV-2 in symptomatic and asymptomatic individuals**
N. Lucca (Galway, Ireland), R. Castillo-Bravo, L. Lai, K. Marlborough, G. Brychkova, B. Smyth, P. Mckeown, J. Feenstra, C. Ulekleiv, M. Gandhi, C. Spillane*

00055 **Longitudinal patterns of exhaled SARS-CoV-2 viral load collected by face-mask sampling and its relation to nasopharyngeal sampling viral load, clinical symptoms and household transmission in infected healthcare workers**
D. Pan (Leicester, United Kingdom), C.M. Williams, J. Decker, E. Fletcher, S. Sze, S. Assadi, R. Haigh, B. Saleem, J. Nazareth, T. Clark, N.J. Garton, M. Pareek, M.R. Barer*

00056 **Saliva as a sample type for cost-effective and scalable SARS-CoV-2 testing**
A. Wyllie (New Haven, United States), O. Allicock, D. Yolda-Carr, C. Vogels, A. Watkins, M. Petrone, N. Grubaugh*

00057 **The role of subgenomic RNA in causing inconclusive results from RT-PCR tests for COVID-19**
N. Toppings (Calgary, Canada), L. Oberding, Y.C. Lin, D. Evans, D. Pillai*

OS013 08:30 - 10:30 Hall K

2-Hour Oral Session

Advances in prevention of urinary catheter and central line-associated bloodstream infections

Chairs *Lisa Hall (Herston, Australia)*
Clare Rock (Baltimore, United States)

00058 **Impact of a national intervention on CLABSI and non-CLABSI rates in Israeli medical-surgical ICUs**
D. Ben-David (Holon, Israel), A. Vaturi, E. Temkin, L. Wullfhart, E. Solter, Y. Carmeli, M. Schwaber*

00059 **Combating multidrug-resistant catheter-related infections with cold plasma technology**
Z. Dor (Ariel, Israel), Y. Bormashenko, J. Giller, J. Moran-Gilad, E. Bormashenko, S. Navon-Venezia*

00060 **The accuracy of fully-automated surveillance algorithms for central venous catheter-related bloodstream infections in hospitalised patients**
S.D. Van Der Werff (Stockholm, Sweden), M. Karmefors Idvall, H. Tanushi, P. Nauclér*

00061 ***Staphylococcus aureus* nasal carriage and *Staphylococcus aureus* bloodstream infection among conventional haemodialysis patients in Thailand: a prospective multi-centre cohort study**
W. Nasomsong (Bangkok, Thailand), T. Techasuphaboon, V. Vasiksin, N. Varothai, N. Rak Nai Sil*

00062 **The impact of COVID-19 on central line-associated bloodstream infections (CLABSI) and device utilisation ratio (DUR) at a large healthcare system in Miami, FL**
A. Jimenez (Miami, United States), A. Garcia, K. Sposato, J. Cardozo, O. Orozco, M. Ruiz, R. Mcdade, R. Williams, G. Sidimirova, J. Dobson, D. Roberts, K. Manzanillo, G. Rosello, R. Rosa, L. Abbo*

00063 **Antiseptic barrier caps in central line-associated bloodstream infections: a systematic review and meta-analysis**
M. Leal Dos Santos (Lisbon, Portugal), S. Tejada, R. Martínez-Reviejo, Y. Peña-Lopez, S. Blot, E. Alp, J. Rello*

00064 **Surveillance programme for bloodstream infections in long-term central venous catheters in outpatient chemotherapy services**
D. Assis (São Paulo, Brazil), M. Freire, F. Carlesse, P.C.P. Germano, J.M. Viroli, A.C. Turdo, B.Q. Rodrigues, A.L.P. Maciel, M.M. Viu, J.D.C. Belizario, P. Goncalves, E. Abdala, I. Boszczowski, A.S.S. Levin*

00065 **Decrease in healthcare-associated infection methicillin-resistant *Staphylococcus aureus* bacteraemia using a prevention bundle audit tool with real-time feedback**
C. Carter (Miami, United States), K.A. Sposato, M. Jimenez Hamann, L.M. Abbo*

00066 **Pilot clinical trial: testing a diagnostic lozenge for impending urinary catheter blockage**
R. Heylen (Bath, United Kingdom), T. Jenkins*

O0067 **Bundle of interventions to accomplish 365 days without catheter-associated urinary tract infections (CAUTI) hospital-wide during the COVID-19 pandemic at a community hospital in Miami, FL**
A. Jimenez (Miami, United States), K. Sposato, P.A. Anderson, V. Perez, J.V. Caprile, D. Diaz, M. Mann, L.M. Abbo*

OS014 **08:30 - 10:30** **Hall N**
2-Hour Oral Session

Soft tissue, bone and joint infections: a treatment update

Chairs *Anne Claude Cremieux (Paris, France)*
Andrej Trampuz (Berlin, Germany)

O0068 **Community acquired skin and soft tissue infections in people who inject drugs compared to non-injection drug users**
R. Kivlehan (Dublin, Ireland), N.R. Power, A. O'donnell, O. Hennigan, P. Mcgettrick, J.S. Lambert, G. Sheehan, A. Cotter, T. Mcginty, D. Morley, E. Muldoon, J. Woo*

O0069 **Experience with long-term linezolid use (>28 days) in bone and joint infections: safe and well-tolerated**
C.M. Veerman (Nijmegen, Netherlands), D.S.C. Telgt, J.H.M. Goosen, P.J.C. Heesterbeek*

O0070 **Epidemiology and management of large joint septic arthritis: evolution over time during an eleven-year period at a referral centre**
P. Malosso (Bologna, Italy), S. Tedeschi, E. Zamparini, N. Rossi, M. De Paolis, N. Maria Pia, P. Viale*

O0071 **Efficacy and safety of intravenous fosfomycin in patients with PJI: preliminary results from the PROOF study, a prospective multi-centre study**
S. Karbysheva (Berlin, Germany), P. Morovic, D. Margaryan, L. Johannsen, A. Trampuz*

O0072 **Evaluation of the efficacy of ceftazidime-avibactam alone or in combinations in carbapenemase-producing *Klebsiella pneumoniae* experimental osteomyelitis**
B. Davido (Garches, France), A.C. Cremieux, A. Cara, I. Vaugier, L. Gatin, L. Noussair, L. Massias, F. Laurent, A. Saleh-Mghir*

O0073 **Time-trends in microbiological aetiology and resistance profile in diabetic foot osteomyelitis**
M. Mancheno-Losa (Madrid, Spain), O. Robineau, E. Beltrand, D. Joulie, P. Patoz, N. Blondiaux, M. Cazaubiel, J. Lora-Tamayo, E. Senneville*

O0074 **Clinical experience of intravenous fosfomycin in the treatment of challenging infections**
D. Margaryan (Berlin, Germany), S. Karbysheva, V. Dos Santos, A. Trampuz*

O0075 **Dalbavancin for indications other than skin and soft tissue infections: retrospective analysis of a large monocentric cohort**
S. Coladonato (Pescara, Italy), F. Trave, E. Mazzotta, S. Ianniruberto, G. Parruti, G. Rapacchiale*

O0076 **Who returns to work after vertebral osteomyelitis?**
N. Jung (Cologne, Germany), A. Yagdiran, J. Bredow, C. Otto-Lambertz, G. Mousabasha, N. Kernich, C. Weber, P. Eysel, J. Fischer*

O0077 **Septic arthritis of the knee: arthroscopy or arthrotomy? A comparative study**
J. Esteban (Madrid, Spain), A. Martinez-Ulloa, M. Tovar-Bazaga, S. Gabardo-Calvo, J. Garcia-Cañete, A. Blanco-Garcia, E. Torrecilla-Sadaba, A. Auñon-Rubio*

ID CM

SY015 **11:00 - 12:00** **Hall B**
Symposium

Young Investigator Award for Research in CM and ID

Chairs *Jon S. Friedland (London, United Kingdom)*
Annelies Zinkernagel (Zurich, Switzerland)

S0078 **11:00** **Can artificial intelligence and real-time monitoring support optimised antimicrobial use?**
Timothy Rawson (London, United Kingdom)

S0079 **11:30** **Epidemiology and clinical management of infections in patients with liver cirrhosis**
Michele Bartoletti (Bologna, Italy)

PH

SY016 **11:00 - 12:00** **Hall E**
Symposium

COVID-19 beyond the clinic: the importance of public engagement

Chairs *Katharina Last (Homburg, Germany)*
Alvaro Pascual Hernandez (Seville, Spain)

S0080 **11:00** **Public engagement in COVID-19: pros and cons from the front line**
Yazdan Yazdanpanah (Paris, France)

S0081 **11:30** **Science, policy and social media in COVID-19**
Isabella Eckerle (Geneva, Switzerland)

Co-organised with: ESCMID Scientific Affairs Subcommittee (SAS)

CM

SY017 **11:00 - 12:00** **Hall I**
Symposium

Pathogenic *Escherichia coli*: the emergence of cross-pathotypes from the genomic continuum

Chairs *Theresa J. Ochoa (Lima, Peru)*
Rosangela Tozzoli (Rome, Italy)

S0082 **11:00** ***Escherichia coli* pathotypes causing paediatric infection in low resource settings**
Inacio Mandomando (Maputo, Mozambique)

S0083 **11:30** **Redefining enteroaggregative *Escherichia coli* (EAEC): genomic characterisation of epidemiological EAEC strains**
Nadia Boisen (Copenhagen, Denmark)

ID

ME018 **11:00 - 12:00** **Hall J**
Meet-the-Expert

Interactive paediatric cases

M0084 **11:00** *Julie Toubiana (Paris, France)*
M0085 **11:30** *Susanna Esposito (Parma, Italy)*

Co-organised with: European Society of Paediatric Infectious Diseases (ESPID)

CM

ME019 **11:00 - 12:00** **Hall K**
Meet-the-Expert

How to apply Digital PCR in clinical microbiology

M0086 **11:00** *Jim Huggett (Teddington, United Kingdom)*
M0087 **11:30** *Keith Jerome (Seattle, United States)*

OS020 **11:00 - 12:00** **Hall C**
1-Hour Oral Session

Novel insights into herpetic infections

Chairs *Matthijs Brouwer (Amsterdam, Netherlands)*
Gülsen Özkaya Sahin (Lund, Sweden)

O0088 **Phenotypes of novel cytomegalovirus UL54 DNA polymerase mutations selected in clinically resistant transplant recipients**
M. Santos-Bravo (Barcelona, Spain), N. Plault, M. Bodro, A. Moreno, A.B. Pérez-Jiménez, J. Torre-Cisneros, E. Vidal-Verdú, F. Cofán, C. Rodríguez-Rubio, S. Sánchez-Palomino, S. Alain, M.Á. Marcos*

O0089 **Human cytomegalovirus-specific T cell reconstitution and late-onset cytomegalovirus infection in haematopoietic stem cell transplant recipients following letermovir prophylaxis**
I. Cassaniti (Pavia, Italy), E. Gabanti, O. Borsani, A.A. Colombo, F. Zavaglio, L. Binaschi, D. Caldera, R. Sciarra, G. Cassinelli, E.P. Alessandrino, P. Bernasconi, V.V. Ferretti, D. Lilleri, F. Baldanti*

O0090 **Time to first cytomegalovirus viraemia clearance in transplant recipients with refractory cytomegalovirus infection with or without resistance receiving maribavir versus investigator-assigned therapy: subgroup analyses of a phase III trial**
S. Alain (Limoges, France), D. Florescu, D. Kumar, J. Wu, M. Fournier*

O0091 **Cytomegalovirus impact in B-cell lymphoma patients treated with chimeric antigen receptor T cell therapy**
E. Marquez-Algaba (Barcelona, Spain), B. Pernas, J. Esperalba, C. Carpio, I. Los-Arcos, G. Iacoboni, P. Barba, I. Ruiz-Camps*

O0092 **Comparison of viral and host transcriptomic profiles in patients with genital infections caused by herpes simplex viruses 1 and 2**
S. Burrel (Paris, France), D. Boutolleau, G. Gricourt, M. N'debi, V. Demontant, C. Rodriguez*

OS021 **11:00 - 12:00** **Hall F**
1-Hour Oral Session

Digital health applications for CM/ID

Chairs *Silvio Daniel Brugger (Zurich, Switzerland)*
Holger Rohde (Hamburg, Germany)

O0093 **Learning a meaningful latent space representation for patient risk stratification: model development and validation for dengue**
B. Hernandez (London, United Kingdom), O. Stiff, D.K. Ming, N.L. Vuong, N.M. Tuan, N.V.V. Chau, H.Q. Chanh, N.M. Nguyet, N.Q. Huy, P.K. Lam, D.T.H. Tam, D.T. Trung, H.T. Trieu, C.P. Simmons, B. Wills, A.H. Holmes, S. Yacoub, P. Georgiou*

O0094 **AmPHI-TIPS: risk stratification for pre-hospital patients**
M.L. Mogensen (Aalborg, Denmark), L.M. Ward, A.L. Madsen, T.A. Lindskou, E.F. Christensen*

O0095 **Performance evaluation of machine-assisted interpretation of Gram stains from positive blood cultures**
C. Walter (Heidelberg, Germany), C. Weissert, E. Gizewski, H. Mannsperger, I. Burckhardt, S. Zimmermann, O. Nolte*

O0096 **A machine learning approach to dengue diagnosis and the impact of seasonality in patients presenting with an acute febrile illness in Ho Chi Minh city, Vietnam**
D. Ming (London, United Kingdom), N.M. Tuan, B. Hernandez, S. Sangkaew, N.L. Vuong, H.Q. Chanh, N.V.V. Chau, C.P. Simmons, B. Wills, P. Georgiou, A.H. Holmes, S. Yacoub*

O0097 **Combination of predictive classification algorithms, using automated training techniques and MALDI-TOF MS for capsular serotyping of *Streptococcus pneumoniae***
J. Zintgraff (Caba, Argentina), F. Rocca, M. Santos, D. Napoli, N. Sanchez Eluchans, C. Lara, M. Prieto*

OS022 **11:00 - 12:00** **Hall G**
1-Hour Oral Session

Rapid diagnostic tools inform prudent antibiotic use

Chairs *Giulia De Angelis (Rome, Italy)*
Po-Ren Hsueh (Taichung, Taiwan, China)

00098 **Promoting prudent antibiotic use in nursing homes: a Norwegian nationwide antibiotic quality improvement programme**
P.E. Akselsen (Bergen, Norway), N.J. Harbin, R.D. Eig, A. Alkayssi, J.B. Haug, M. Romøren, H.S. Blix, K. Enoksen, S. Høye, M. Lindbæk*

00099 **Procalcitonin-guided antibiotics for lower respiratory tract infections in primary care: can we do better?**
J. Knüsli (Lausanne, Switzerland), L. Lhopitallier, A. Kronenberg, J.Y. Meuwly, O. Opota, M.A. Perrenoud, M.A. Page, K. Kain, V. D'acremont, N. Senn, Y. Mueller, I. Locatelli, N. Boillat-Blanco*

00100 **Commercial test that distinguishes between viral and bacterial infection in sepsis patients**
S. Motov (Staten Island, United States), C.A. Arias, R.G. Bachur, S. Esposito, S. Halabi, S.L. Kaplan, A. Klein, R. Rothman, L.M. Ryan, S. Shiber, T. Tenenbaum, A. Weissman*

00101 **Early empirical antibiotic therapy modification in sepsis using beta-lacta test directly on blood cultures**
A. Mizrahi (Paris, France), F. Jaureguy, H. Petit, G. Péan De Ponfilly, E. Carbonnelle, A. Le Monnier, J.R. Zahar, B. Pilmis*

00102 **Short versus extended treatment with a carbapenem in haematology patients with high-risk fever of unknown origin during neutropenia: an open-label, multi-centre, randomised clinical trial**
N. De Jonge (Amsterdam, Netherlands), J. Sikkens, S. Zweegman, A. Beeker, P. Ypma, A.H. Herbers, W. Vasmel, A.M. De Kreuk, J.L.L.M. Coenen, B. Lissenberg-Witte, M.H.H. Kramer, M. Agtmael, J.J.W.M. Janssen*

OS023 **11:00 - 12:00** **Hall H**
1-Hour Oral Session

New Insights about PK/PD of antifungal agents

Chairs *Joseph Meletiadis (Athens, Greece)*
Birgit Willinger (Vienna, Austria)

00103 **Serum isavuconazole concentrations in immunocompromised hosts with invasive mould infections: an Asian perspective, implications for dosing and therapeutic drug monitoring**
F.Z.Y. Chan (Singapore, Singapore), P.Y. Zhou, W.T. Leow, F.I. Zulkifli, K.K.K. Goh, P.Z.B. Cherng, Y.E. Teh, B.H. Tan, G.C. Wong, T.P. Lim, L.H.A. Kwa, S.J. Chung*

00104 ***In vitro* comparative pharmacodynamics of isavuconazole against *Aspergillus fumigatus*, *A. terreus* and *A. flavus* in an *in vitro* pharmacokinetic/pharmacodynamic model**
P. Paranos (Athens, Greece), M. Siopi, H. Van Der Lee, J. B. Buil, P. Verweij, S. Pournaras, J. Meletiadis*

00105 **Antifungal drug penetration in infected human body fluids and tissues**
A. Cancela Costa (Lausanne, Switzerland), E. Glampedakis, A. Kritikos, F. Grass, E. Uldry, C. Delabays, J. Perentes, J.L. Pagani, B. Guery, J.A. Da Silva Pereira Clara, L.A. Decosterd, F. Lamoth*

00106 **Venetoclax and ibrutinib pharmacokinetics unaltered when co-administered with rezafungin**
T. Sandison (San Diego, United States), S. Flanagan, V. Ong*

00107 **Posaconazole bioavailability following administration of the solid oral tablet is reduced in haematological patients with severe intestinal mucositis**
A. Jansen (Nijmegen, Netherlands), E. Muilwijk, W. Van Der Velden, J. Maertens, R. Aerts, A. Colbers, D. Burger, P. Verweij, R. Ter Heine, N. Blijlevens, R. Brüggemann*

OS024 **11:00 - 12:00** **Hall M**
1-Hour Oral Session

COVID-19 in special populations

Chairs *Nicolas Müller (Zurich, Switzerland)*
Cristiana Oprea (Bucharest, Romania)

00108 **Impact of COVID-19 on functional status in French oldest populations: COVID-OLD multi-centre study**
G. Gavazzi (Grenoble, France), C. Arlaud, T. Fraisse, J.P. Vittoz, M. Paccalin, J.P. Lanoix, L. Bernard, P. Carraux-Paz, A. Putot, C. Roubaud, S. Diamantis, N. Baclet, E. Forestier*

00109 **COVID-19 in pregnant women in a tertiary referral centre: preliminary outcomes of a prospective study**
I. Garcia-Ruiz (Barcelona, Spain), B. Serrano, A. Suy, E. Sulleiro, F.J. Barranco, P. Garcia-Aguilar, J. Gil, E. Carreras, N. Fernandez-Hidalgo*

00110 **Association of long-term use of immunosuppressant drugs with severity of COVID-19 in Stockholm: a cohort study**
A. Requena-Mendez (Stockholm, Sweden), R. Brodin, S.D. Van Der Werff, P. Hedberg, A. Färnert, P. Naucler, P. Bergman*

00111 **COVID-19 in renal transplant recipients: experience of 243 patients from a single-centre in Pakistan**
A. Nasim (Karachi, Pakistan), S. Dodani*

00112 **Predictors of clinical evolution of SARS-CoV-2 infection in haematological patients: a systematic review and meta-analysis**
A.M. Azzini (Verona, Italy), E. Razzaboni, M.E. De Rui, M. Guedes, A. Gorska, Z.R. Palacios-Baena, G. Caponcello, F. Arbizzani, B. Tazza, C. Visco, M. Giannella, M. Krampera, J. Rodriguez-Bano, E. Tacconelli, E. Carrara*

OF025 **11:00 - 12:00** **Hall L**
1-Hour Mini-oral Flash Session
Innovative preclinical PK/PD studies

Chairs *Sandrine Marchand (Poitiers, France)*
Jason Roberts (Brisbane, Australia)

00113 **Characterisation of *in vivo* acquired ceftolozane-tazobactam resistance in *Pseudomonas aeruginosa* using a PK/PD modelling approach**
L. Deroche (Poitiers, France), L. Darnaud, M. Thiry, A. Chauzy, L. Prouvensier, L. Laval, S. Marchand, M.C. Ploy, B. François, W. Couet, O. Barraud, J. Buyck*

00114 **Pharmacodynamics of meropenem and tobramycin for neonatal meningoencephalitis: a novel approaches to facilitate the development of new agents to address the challenge of antimicrobial resistance**
N. Farrington (Liverpool, United Kingdom), L. Mcentee, A. Johnson, J. Unsworth, A. Jimenez-Valverde, C. Darlow, R.G. Greenberg, C.P. Hornik, J. Schwartz, S. Das, W. Hope*

00115 ***In vivo* pharmacodynamic evaluation of meropenem-nacubactam in murine thigh and lung infection models against *Klebsiella pneumoniae* (KPN) containing OXA-48-like enzymes**
A. Lepak (Madison, United States), B. Vanscoy, H. Sader, P. Ambrose, D. Andes*

00116 **Temocillin activity against KPC-2-producing *Klebsiella pneumoniae* strains in a hollow-fibre infection model**
J.L. Rodríguez-Ochoa (Seville, Spain), P. Pérez-Palacios, M. Ortiz-Padilla, A. Velazquez-Escudero, V. Merino-Bohorquez, J. Rodríguez-Baño, J.M. Rodríguez-Martinez, L. López-Cerero, F. Docobo-Pérez, Á. Pascual-Hernández*

00117 **Synergistic penicillin-binding protein (PBP) occupancy patterns against *Klebsiella pneumoniae* (KP) characterised via confocal microscopy, flow cytometry, and quantitative systems pharmacology**
E. Shin (Orlando, United States), A.R.M. Sayed, Y. Lang, J. Zhou, J.L. Oyer, B. Moya, A.A.S. Elsayed, D.S. Sutaria, N.R. Shah, C. Werkman, R.H. Jimenez-Nieves, K.C. Cadet, X. Tao, Y. Jiao, A.J. Copik, R.A. Bonomo, H.P. Schweizer, R.E. Lee, J.D. Boyce, A. Louie, B.T. Tsuji, G.L. Drusano, J.B. Bulitta*

00118 **Pharmacokinetic/pharmacodynamic evaluation of tigecycline against *Klebsiella pneumoniae:* higher doses or lower breakpoints needed?**
L. Amann (Hamburg, Germany), S.G. Wicha*

00119 **Time-course analysis of the metabolomic footprint of an MDR hypermutable *Pseudomonas aeruginosa* clinical isolate challenged with ceftolozane/tazobactam in a hollow-fibre infection model**
J.R. Tait (Parkville, Australia), D. Anderson, K.E. Rogers, Y. Lang, W.L. Lee, J. Zhou, J.B. Bulitta, R.L. Nation, D.J. Creek, C.B. Landersdorfer*

00120 **A translational rat model utilising iohexol to assess kidney function changes with the addition of piperacillin-tazobactam to vancomycin**
J. Chang (Downers Grove, United States), G. Pais, S. Marianski, K. Valdez, E. Barreto, M. Scheetz*

00121 **Pharmacokinetics/pharmacodynamics of antipseudomonal bacteriophage therapy in a mouse bacteraemia model**
S.C. Nang (Melbourne, Australia), Y.W. Lin, P. Hanafin, J. Wang, K. Chen, H.H. Yu, H. Wickremasinghe, P.J. Bergen, R.Y.K. Chang, G. Rao, K. Chan, J. Li*

OF026 **11:00 - 12:00** **Hall N**
1-Hour Mini-oral Flash Session
Treatment of XDR bacteria: highway to hell

Chairs *Amel Letaief (Sousse, Tunisia)*
Juan P. Horcajada (Barcelona, Spain)

00122 **Evaluation of the ceftazidime/avibactam for treatment of carbapenem resistant *Enterobacteriaceae* with OXA-48 and/or NDM genes with or without a combination therapy**
H. Alqahtani (Riyadh, Saudi Arabia), A. Alghamdi, A. Alfayez, R. Almousa, N. Alobaidallah, R. Albagli, N. Shamas, F. Farahat, E. Mahmoud*

00123 **Effect of fosfomycin addition to ceftazidime/avibactam on 30-day mortality in patients with bloodstream infections caused by KPC producing *Klebsiella pneumoniae*: preliminary results from a retrospective case-control study**
A. Oliva (Rome, Italy), L. Volpicelli, S. Di Bari, A. Curtolo, F. Cogliati-Dezza, M. Venditti*

00124 **Ceftazidime-avibactam plus aztreonam for the treatment of metallo-β-lactamase producing Gram-negative bacterial infections**
A. Sempere (Barcelona, Spain), B. Viñado, I. Los-Arcos, D. Campany, N. Larrosa, N. Fernández-Hidalgo, D. Rodríguez-Pardo, J.J. González-López, B. Almirante, L. Escolà-Vergé*

00125 **Aminoglycoside resistance in patients colonised with extended-spectrum beta-lactamase (ESBL)-producing Enterobacterales: a retrospective cohort study**
I. Vock (Basel, Switzerland), L. Aguilar Bultet, A. Egli, S. Tschudin-Sutter*

00126 **Short- versus long-course antibiotic treatment for vancomycin-resistant enterococcal bacteraemia without a deep-seated focus: a retrospective multi-centre cohort study**
C. Bahrs (Jena, Germany), S.R. Rieg, A. Hennigs, F. Hitzenbichler, T. Rolling, R.J. Jacobi, V. Heine, D. Hornuß, S. Hagel, F. Hanses*

00127 **Acidic urine pH worsens clinical outcomes of *Escherichia coli* bacteriurias**
S. Fontserè Recuenco (Seville, Spain), A. Suarez-Benjumea, C. González-Corvillo, C. Infante-Domínguez, S. Herrera-Espejo, Á. Rodríguez-Villodres, J. Pachón, G. Bernal Blanco, M.E. Pachón-Ibáñez, E. Cordero*

00128 **Efficacy of melittin as adjuvant to antibiotics against carbapenemases-producing Gram-negative bacilli**
S. Herrera Espejo (Seville, Spain), T. Cebrero Cangueiro, A.B. Guisado Gil, J.A. Cerrillo Matilla, J. Pachón, M.E. Pachón Ibáñez*

00129 **Activity and resistance genomics of cefiderocol and comparators in sequential *Pseudomonas aeruginosa* isolates from cystic fibrosis patients**
C. López-Causapé (Palma, Spain), A. Maruri-Aransol, M.A. Gomis-Font, I. Penev, M. García-Castillo, X. Mulet, J. De Dios Caballero, R. Del Campo, R. Cantón, A. Oliver*

00130 **Synergy between mecillinam and ceftazidime/avibactam or avibactam against multidrug-resistant carbapenemase-producing *Escherichia coli* and *Klebsiella pneumoniae***
F.B. Hertz (Copenhagen, Denmark), K. Knudsen List, M. Kolpen, K. Nørskov Kragh, G. Charbon, S. Radmer, F. Hansen, N. Frimodt-Møller*

OF027 **11:00 - 12:00** **Hall O**
1-Hour Mini-oral Flash Session

Mechanistic insights into host responses to important pathogens

Chairs *Kate Seib (Brisbane, Australia)*
Markus Zeitlinger (Vienna, Austria)

00131 ***Staphylococcus aureus* biofilm stimulates similar metabolic stress as serum starvation in peripheral blood mononuclear cells resulting in immunosuppressive effects**
R. Gheitasi (Jena, Germany), A. Ullah, M. Müller, O. Makarewicz, M. Pletz*

00132 **Helminth infection induces IgE secretion associated with elevated biomarkers of pulmonary destruction in human tuberculosis**
M. Loader (London, United Kingdom), S. Vasquez Alves, M. Verastegui, R.H. Gilman, J.S. Friedland*

00133 **Identification of potential vaccine candidate for *Paracoccidioides brasiliensis* from proteins present in extracellular vesicles by using reverse vaccinology**
A. Padovan (Alfenas, Brazil), N.S. Gonçalves*

00134 **Characterisation of the cytosolic innate immune response during *Francisella tularensis* subsp. *holarctica* infection**
L. Ponderand (Grenoble, France), S. Boisset, T. Henry, G. Gay*

00135 **Impact of bacterial lipoproteins on cytokine activation and immune cell metabolism**
M.T. Nguyen (Münster, Germany), H. Schöttler, S. Niemann, M. Mohammad, M. Schultz, T. Jin, H. Hayen, M. Herrmann*

00136 **SFG *Rickettsia* trigger species-specific alterations in macrophage proteome signatures with different impact in host innate inflammatory responses**
I. Simões (Coimbra, Portugal), P. Curto, C. Santa, L. Cortes, B. Manadas*

00137 **Differential activation of IFN receptors in anal cells from HIV+ men during HPV infection**
M. Scordio (Rome, Italy), M. Fracella, F. Frasca, L. Sorrentino, G. Oliveto, A. Viscido, L. Santinelli, E.N. Cavallari, G. D'ettorre, P. Gozzo, G. Antonelli, A. Pierangeli, C. Scagnolari*

00138 **Creating a platform to screen immunomodulators to combat respiratory virus immunopathology: the importance of mouse strain selection for therapeutic screening**
S. Kimber (Portishead, United Kingdom), C. Cumper, H.S. Lam, M. Miller, K. James, L. Sueiro Ballesteros, C. Kirkham, P. Walters, C. Richards, S.R. Jenkinson*

00139 **Serological response using ELISA anti-VI-IgG after single dose of typhoid conjugate vaccine against *Salmonella typhi* among children in Hyderabad, Pakistan**
S. Qureshi (Karachi, Pakistan), T. Yousafzai, N. Iqbal, A. Hotwani, Z. Khawaja, F. Qamar*

OF028 **11:00 - 12:00** **Hall Q**
1-Hour Mini-oral Flash Session

COVID-19 treatment insights and advances

Chairs *Raquel Duarte (Porto, Portugal)*
Dafna Yahav (Petah-Tikva, Israel)

00140 **Association of home corticosteroids therapy with COVID-19 disease severity and mortality**
D.F. Bavaro (Bari, Italy), F. Balena, E. Pallara, E. De Vita, R. Lattanzio, G. De Iaco, M.F. Mariani, F. Di Gennaro, A. Saracino*

00141 **Long-term protease inhibitors in patients living with HIV might prevent COVID-19 infection: a prospective multi-centre cohort study**
S. Nguala (Villeneuve-Saint-Georges, France), K. Diallo, A. Belkacem, F. Medina, P. Caraux-Paz, E. Marshal, L. Richier, A. Chahour, S. Diamantis, E. Krastinova, S. Gallien, D. Salmon, N. Vignier, A. Raffetin*

00142 **Development and evaluation of a live biotherapeutic throat spray in COVID-19 primary care patients**
I. Spacova (Antwerp, Belgium), I. De Boeck, E. Cauwenberghs, T. Gehrmann, T. Eilers, L. Delanghe, S. Wittouck, T. Henkens, A. Simons, I. Gamgami, L. Persoons, I. Claes, K. Jacobs, K. Loens, D. Schols, S. Coenen, V. Verhoeven, S. Lebeer*

00143 **Effects of inhaled interferon-beta on hospitalised COVID-19 patients receiving supplemental oxygen**
P. Monk (Southampton, United Kingdom), V. Tear, J. Brookes, T. Batten, M. Mankowski, F. Gabbay, D. Davies, S. Holgate, R. Djukanovic, T. Wilkinson*

00144 **Long-term benefit of early anakinra treatment in COVID pneumonia at risk: results of the SAVE-MORE trial**
E. Giamarellos-Bourboulis (Athens, Greece), A. Kotsaki, S. Metallidis, A. Papailiou, A. Rapti, E. Taddei, G. Boni, M. Gaggadi, Z. Alexiou, F. Saverio Serino, V. Tzavara, K. Dimakou, M. Chini, G. Tsoukalas, C. Selmi, I. Bliziotis, A. Mazgala, K. Akinosoglou, A. Argyraki, S. Sympardi, P. Panagopoulos*

00145 **Benefit and harm of corticosteroids in large population of COVID-19 patients admitted to Spanish intensive care units**
A. Motos (Barcelona, Spain), C. Cillóniz, A. Ceccato, L. Fernández-Barat, A. Gabarrús, J. Bermejo, R. Ferrer, J. Riera, O. Peñuelas, J.Á. Lorente, F. Barbé, A. Torres*

00146 **Efficacy and safety of intramuscular administration of AZD7442 (tixagevimab/cilgavimab) for early outpatient treatment of COVID-19: the TACKLE phase III trial**
H. Montgomery (London, United Kingdom), R. Hobbs, F. Padilla, D. Arbetter, A. Templeton, S. Seegobin, K. Kim, J.A. Simon Campos, R. Arends, B. Brodek, D. Brooks, P. Garbes, J. Jimenez, G. Koh, K. Padilla, R. Viani, K. Streicher, V. Alagappan, M. Pangalos, M. Esser*

00147 **Predictive efficacies of bamlanivimab, bamlanivimab/etesevimab, and casirivimab/imdevimab in treatment of COVID-19 infection**
A. Gupta (Antwerp, Belgium), A. Konnova, M. Berkell, V. Van Averbeke, A. Savoldi, M. Morra, M. Mirandola, S. Malhotra Kumar, P. De Nardo, E. Tacconelli, S. Kumar Singh*

00148 **Early administration of remdesivir may reduce mortality in hospitalised COVID-19 patients: a propensity-score matched analysis**
M. Karolyi (Vienna, Austria), L. Kaltenegger, E. Pawelka, A. Kuran, M. Platzer, D. Totschnig, F. Koenig, W. Hoepler, H. Laferl, S. Omid, T. Seitz, M. Traugott, S. Arthofer, L. Erlbeck, S. Jaeger, A. Kettenbach, A. Assinger, C. Wenisch, A. Zoufaly*

VW029 **11:00 - 12:00** **Arena 2**
Virtual Walk Through

Hotchpotch of RTI

Moderator Barbara Rath (Berlin, Germany)
Reviewer Jordi Carratala (Barcelona, Spain)

FO031 **12:15 - 13:15** **Arena 1**
Open Forum

Ethical issues in infectious diseases

Chairs TBA

F0148A **Distribution of vaccines between high- and low-income countries**
Natasha Anwar (Karachi, Pakistan)

F0148B **Conflict of interest and how to manage it**
Marco De Ambrogi (London, United Kingdom)

F0148C **Antibiotic availability gaps in high vs low resource countries**
TBA

F0148D **Ethical issues in clinical studies during a pandemic: lesson from COVID-19**
TBA

Co-organised with: ESCMID Ethics Advisory Committee (EEAC)

TD030 **13:00 - 16:00** **Hall D**
TAE Day

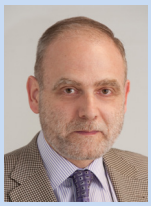
TAE Day

Chairs
Maiken Arendrup (Copenhagen, Denmark)
Emmanuelle Cambau (Paris, France)
Önder Ergönül (Istanbul, Turkey)
Jon S. Friedland (London, United Kingdom)
Angela Huttner (Geneva, Switzerland)
Maurizio Sanguinetti (Rome, Italy)
Jeroen Schouten (Nijmegen, Netherlands)
Luigia Scudeller (Bologna, Italy)
Robert Leo Skov (Copenhagen, Denmark)

Co-organised with: Trainee Association of ESCMID (TAE)

ID

KN032 **13:30 - 14:30** **Hall A**
Keynote lecture



Clinical research in infectious endocarditis: past, present, and future
Chairs
Winfried Kern (Freiburg, Germany)
Annelies Zinkernagel (Zurich, Switzerland)

K0149 13:30
José M. Miro (Barcelona, Spain)

Dr. José M. Miró has been Senior Consultant of Infectious Diseases at the Hospital Clinic – IDIBAPS of Barcelona since 2001. He is Professor of Medicine at the University of Barcelona, IDIBAPS investigator and Director of the Master of HIV/AIDS of the University of Barcelona. His research fields are focused on infective endocarditis (including the experimental model) and HIV/AIDS (cohort studies, primary HIV-1 infection, opportunistic Infections, late presenters, solid organ transplantation in HIV-1 infection, COVID-19). He has published more than 850 articles in peer-reviewed journals (h-index 76). He was President of GESIDA (1998-99), the Catalan Society of Infectious Diseases and Clinical Microbiology (SCMIMC, 2005-07), the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC, 2013-15) and currently is President of the International Society of Cardiovascular Infectious Diseases (ISCVID, 2019-23).

Fireplace Session 23 April, **15:00 - 16:00**

CM IC

SY033 **13:30 - 15:30** **Hall C**
Symposium

The dark side of Gram-negative respiratory infections in the ICU

Chairs *Camilla Rodrigues (Mumbai, India)*
Harald Seifert (Cologne, Germany)

S0150 **13:30** **The phylogenetic landscape and nosocomial spread of *Stenotrophomonas maltophilia***
Thomas Kohl (Borstel, Germany)

S0151 **14:00** **Factors contributing to the persistence of pathogenic *Acinetobacter* in the hospital setting**
Paolo Visca (Rome, Italy)

S0152 **14:30** **The microbiology and pathogenesis of *Stenotrophomonas maltophilia* infection**
Joanna Brooke (Chicago, United States)

S0153 **15:00** **How to diagnose and treat infection with non-fermenters in the ICU**
Adrien Bouglé (Paris, France)

CM

SY034 **13:30 - 14:30** **Hall E**
Symposium

Year in Clinical Microbiology

Chairs *Luisa Maria Vieira Peixe (Porto, Portugal)*
Ana Gales (São Paulo, Brazil)

S0154 **13:30** *Brigitte Lamy (Nice, France)*

S0155 **14:00** *Veroniek Saegeman (Sint-Niklaas, Belgium)*

CM

SY035 **13:30 - 14:30** **Hall G**
Symposium

Exploring the urinary microbiome: facts, figures and therapeutic potential

Chairs *Tomislav Mestrovic (Seattle, United States)*
Maria Vehreschild (Frankfurt am Main, Germany)

S0156 **13:30** **Mapping the urinary microbiome repertoire**
TBA

S0157 **14:00** **Harnessing the therapeutic potential of the urinary microbiota**
Elisabeth Terveer (Leiden, Netherlands)

Co-organised with: ESCMID Study Group for Infections in Compromised Hosts (ESGICH)

ID

SY036 **13:30 - 15:30** **Hall J**
Symposium

Making decisions on antibiotic therapy in difficult situations

Chairs *Bojana Beovic (Ljubljana, Slovenia)*
Francoise Van Bambeke (Brussels, Belgium)

S0158 **13:30** **Streamlining empirical drugs when aetiology is unclear: is it possible?**
Vera Vlahovic-Palcevski (Rijeka, Croatia)

S0159 **14:00** **Stopping therapy in doubtful situations**
José Molina Gil-Bermejo (Seville, Spain)

S0160 **14:30** **Avoiding combinations in severe infections and when XDR organisms are involved**
Felipe Francisco Tuon (Curitiba, Brazil)

S0161 **15:00** **Dosing optimisation in real life: with which drugs, when and how?**
Birgit Koch (Rotterdam, Netherlands)

ID CM

EW037 **13:30 - 15:30** **Hall I**
Educational Workshop

Getting your CM/ID paper published

Chairs *Alex Friedrich (Münster, Germany)*
Ed Kuijper (Leiden, Netherlands)

W0162 **13:30** **Being an author: how to write scientific articles**
Jesús Rodríguez-Baño (Seville, Spain)

W0163 **14:00** **Being a peer-reviewer: how to perform reviews**
Mariska Mg Leeflang (Amsterdam, Netherlands)

W0164 **14:30** **The Editor's view**
Leonard Leibovici (Petah-Tiqva, Israel)

Co-organised with: CMI Board of Editors

OS038 **13:30 - 14:30** **Hall F**
1-Hour Oral Session

Clinical aspects of HIV infection

Chairs *Siri Goepel (Tübingen, Germany)*
Milosz Parczewski (Szczecin, Poland)

O0165 **Risk of subarachnoid haemorrhages and aneurysms in Danish people living with HIV: a nationwide cohort study**
M. Tetens (Copenhagen, Denmark), J. Gerstoft, G. Kronborg, I.S. Johansen, C.S. Larsen, L. Weise, M. Dalager-Pedersen, L.H. Omland, N. Obel*

O0166 **Changing landscape of liver transplantation in post-direct acting antivirals and contemporary highly effective antiretroviral era**
H. Saeed (Rochester, United States), E. Cano, N. Cummins, Z. Yetmar, M. Leise*

O0167 **Prevalence of transmitted drug resistance among late presenters in Europe**
M.N.S. Miranda (Lisbon, Portugal), M. Pingarilho, V. Pimentel, M.D.R. O. Martins, R. Kaiser, C. Seguin-Devaux, R. Paredes, M. Zazzi, F. Incardona, A. Abecasis*

O0168 **PrEP scale-up and PEP in central and eastern Europe: what has changed and what challenges we face?**
J. Kowalska (Warsaw, Poland), D. Gokengin, D. Bursa, A. Skrzat-Klapaczynska, I. Alexiev, J. Begovac, A. Cicic, G. Dragovic, A. Harxhi, K. Kase, B. Lakatos, R. Matulionyte, V. Mulabdic, C. Oprea, A. Papadopoulos, N. Rukhadze, D. Sedlacek, J. Tomazic, A. Vassilenko, M. Vasylyev, A. Verhaz, N. Yancheva, O. Yurin*

O0169 **STI incidence and risk factors for infection and reinfection after introduction of a systematic screening programme for men having sex with men: a longitudinal study in a HIV Cohort**
P. Mathé (Freiburg, Germany), S. Usadel, S. Rieg, W. Kern, M. Müller*

OS039 **13:30 - 14:30** **Hall H**
1-Hour Oral Session

New mechanisms of antifungal resistance in emerging yeast pathogens

Chairs *Dominique Sanglard (Lausanne, Switzerland)*
Cornelia Lass-Flörl (Innsbruck, Austria)

O0170 **A novel *Candida auris* single nucleotide gene editing system reveals the direct impact of mutations in *FKS1* on echinocandin resistance**
J. Rybak (Memphis, United States)*

O0171 **Combining genomic and proteomic data to elucidate 5-fluorocytosine resistance in *Cryptococcus neoformans* species**
F.Z. Delma (Nijmegen, Netherlands), J.P.M. Coolen, A. Cabrera-Orefice, A.M.S. Al-Hatmi, W.J.G. Melchers, S. De Hoog, P.E. Verweij, J.B. Buil*

O0172 **Azole-resistant *Candida parapsilosis*: a new challenge**
M. Cabrera (Madrid, Spain), I. Sánchez, M. Muñoz, A. Pérez, J. Guinea, Ó. Zaragoza, J. Díaz-García, A. Ramos, A. Fernández, F. Portero*

O0173 **Fluconazole-induced microevolution of *Candida parapsilosis* harbouring novel mutation G490R in Tac1p: a new site responsible for azole-resistance and virulence abatement**
N. Yating (Beijing, China), Y.T. Ning, T.S. Sun, L. Zhang, Y.C. Xu*

O0174 **Role of the *Candida glabrata* mediator complex subunit CgPgd1 in azole drug resistance and susceptibility: a transcriptomics approach**
M. Galocha (Lisbon, Portugal), R. Viana, I. Costa, P. Pais, M. Cacho Teixeira*

OS040 **13:30 - 14:30** **Hall K**
1-Hour Oral Session

Ever challenging malaria

Chairs *Sipho Kenneth Dlamini (Observatory, South Africa)*
Anu Kantele (Helsinki, Finland)

O0175 **The role of host and parasite biomarkers in the diagnosis of severe imported *Plasmodium falciparum* malaria**
L. Balerdi-Sarasola (Barcelona, Spain), C. Parolo, C. Angie, S. Carme, N. Rodriguez-Valero, A. Almuedo-Riera, L. Letona, M. Alfredo, M.J. Álvarez-Martínez, M.E. Valls, A. Cristian, F. Rosario, M. Jose, C. Daniel*

O0176 **Amplicon deep sequencing using commercial technology to study drug-resistant *Plasmodium vivax***
C. Kamaliddin (Calgary, Canada), L. Fine, D. Castaneda Mogollon, D.R. Pillai*

O0177 **Effects of ivermectin mass drug administration for malaria vector control on ectoparasites and soil-transmitted helminths**
C. Kositz (London, United Kingdom), M. Drammeh, H. Vasileva, J. Houghton, E. Dabira, U. D'Alessandro, M. Marks, J. Bradley*

O0178 **Prevalence of glucose-6-phosphate dehydrogenase deficiency (G6PDd), commercial qualitative rapid diagnostic test performance, and genetic variants in two malaria-endemic areas in Sudan**
M. Albsheer (Khartoum, Sudan), A. Lover, A. Mohamad, M. Abdel Hamid*

00179 **Prevalence of malaria and anaemia, knowledge and practices of malaria preventive methods among pregnant women attending Vanga hospital at first antenatal care visit, Democratic Republic of the Congo**
J. Mudji E'kitiak (Vanga, Congo, the Democratic Republic of the), B. Madinga, P. Kabamba, V. Olubunmi*

OS041 **13:30 - 14:30** **Hall M**
1-Hour Oral Session

Novel approaches to antimicrobial susceptibility testing

Chairs *Ana Gales (São Paulo, Brazil)*
Marek Gniadkowski (Warsaw, Poland)

00180 **Pilot two-site study of a simple, smartphone compatible miniaturised broth microdilution test with Gram-negative uropathogens**
S. Needs (Reading, United Kingdom), P. Lumbreras-Iglesias, J. Fernández, A. Edwards*

00181 **Artificial intelligence (AI)-assisted antimicrobial susceptibility testing (AST): automated imaging and the use of artificial intelligence for interpretation of disc-diffusion AST according to EUCAST, including rapid antimicrobial susceptibility testing (RAST)**
H. Wisplinghoff (Cologne, Germany), N. Jazmati, A. Nowag, L. Radder, C. Bernsen, R. Hill, S. Giglio*

00182 **Comparative analysis of population analysis profiling approaches to identify colistin heteroresistance in *Klebsiella pneumoniae***
S.G. Rajakani (Antwerp, Belgium), B.B. Xavier, A.A. Sey, M. Elbounja, C. Lammens, H. Goossens, S. Malhotra-Kumar*

00183 **Individual antimicrobial killing profiles reveal clinical outcomes**
F. Bright (Basel, Switzerland), A. Jovanovic, B. Wicki, L. Sauteur, A. Wuest, D.M. Grogono, F. Geier, M. Tamm, P. Dehio, J. Nemeth, M. Abanto, R. Thomson, S. Bell, A.R. Floto, L. Boeck*

00184 **Haemin-dependent metronidazole resistance in epidemic *Clostridioides difficile***
J. Freeman (Leeds, United Kingdom), W. Spittal, C. Chilton, M. Wilcox, J. Hurdle*

VW042 **13:30 - 14:30** **Arena 2**
Virtual Walk Through

Under the hood: mechanisms of action of new antibacterial agents

Moderator *Ursula Theuretzbacher (Vienna, Austria)*
Reviewer *Banu Bayraktar (Istanbul, Turkey)*

CM

KN043 **14:45 - 15:45** **Hall A**
Keynote lecture



Pathogens and the microbiome: antibiotics at the crossroads
Chairs
Kimberly Kline (Singapore, Singapore)
Christian Giske (Stockholm, Sweden)
K0185 14:45
Martin Blaser (New Jersey, United States)

Martin J. Blaser holds the Henry Rutgers Chair of the Human Microbiome at Rutgers University, New Brunswick, United States, and serves as director of the Center for Advanced Biotechnology and Medicine. Previously, he served as chair of the Department of Medicine at New York University. A physician and microbiologist, Dr. Blaser has been studying the relationships we have with the human microbiome, the bacteria that live in us. Over the last 20 years, he has also been actively studying the relationship of the human microbiome with both health and important diseases including asthma, obesity, diabetes, and cancer. Dr. Blaser has been the advisor to many students, post-doctoral fellows, and faculty. He has served as president of the Infectious Diseases Society of America, Chair of the Board of Scientific Counselors of the National Cancer Institute, and Chair of the Advisory Board for Clinical Research of the NIH. He currently serves as chair of the Presidential Advisory Council for Combatting Antibiotic Resistant Bacteria (PACCARB). He was elected to the National Academy of Medicine and the American Academy for Arts and Sciences. He has authored over 630 original scientific articles, and holds 24 U.S. patents, and he also wrote Missing Microbes, a book targeted to general audiences, now translated into 20 languages.

Co-organised with: ESCMID Study Group for Host and Microbiota Interaction (ESGHAMI) and American Society of Microbiology (ASM)

Fireplace Session 23 April, **16:15 - 17:15**

ID PH

SY044 **14:45 - 15:45** **Hall E**
Symposium

Respiratory viral infections in hospital settings

Chairs *Daniele Roberto Giacobbe (Genoa, Italy)*
Chrysanthi Skevaki (Marburg, Germany)

S0186 **14:45** **Respiratory virus infections in ICU patients besides SARS-CoV-2: what matters?**
Charles-Edouard Luyt (Paris, France)

S0187 **15:15** **Guidelines for diagnosis of COVID-19 and influenza**
Barbara Rath (Berlin, Germany)

Co-organised with: ESCMID Study Group for Respiratory viruses (ESGREV), ESCMID Study Group for Infections in Critically Ill Patients (ESGCIP)

SY045 **14:45 - 15:45** **Hall F**
Symposium

One Health and mycology: what are the significant and potential interactions between agriculture and human health?

Chairs *Justin Beardsley (Sydney, Australia)*
Cornelia Lass-Flörl (Innsbruck, Austria)

S0188 **14:45** **What is the evidence that agricultural azole use drives drug resistance in human fungal pathogens?**
Paul Eduard Verweij (Nijmegen, Netherlands)

S0189 **15:15** **How can we minimise the risk of development of antifungal resistance in the environment?**
Marin Brewer (Watkinsville, United States)

ID

SY046 **14:45 - 15:45** **Hall G**
Symposium

Should you manage bloodstream infection differently in immunocompromised patients?

Chairs *Jose Maria Aguado Garcia (Madrid, Spain)*
Maddalena Giannella (Bologna, Italy)

S0190 **14:45** **Rapid diagnostic testing: is it a life saver for immunocompromised patients?**
Gian Maria Rossolini (Florence, Italy)

S0191 **15:15** **What is different in the treatment of immunocompromised patients**
Maristela P. Freire (São Paulo, Brazil)

Co-organised with: ESCMID Study Group for Infections in Compromised Hosts (ESGICH)

OS047 **14:45 - 15:45** **Hall B**
1-Hour Oral Session

A post-COVID syndrome: a never-ending story

Chairs *Cristiana Oprea (Bucharest, Romania)*
Sotirios Tsiodras (Athens, Greece)

00192 **Vagus nerve dysfunction in post-COVID-19 condition**
G. Lladós (Badalona, Spain), M. Massanella, R. Coll, R. Rodriguez, E. Hernandez, G. Lucente, A. Martinez-Piñeiro, S. España, J.R. Santos, C. Lopez, C. Loste, M.J. Dominguez, I. Casafont, C. Bracke, R. Paredes, L. Mateu*

00193 **SARS-CoV-2 variants may induce different long COVID phenotypes**
M. Spinicci (Florence, Italy), J. Nkurunziza, I. Vellere, L. Graziani, M. Tilli, B. Borchi, J. Mencarini, I. Campolmi, L. Giovannoni, L. Rasero, F. Fattirolli, I. Olivotto, F. Lavorini, N. Marchionni, L. Zammarchi, A. Bartoloni*

00194 **Gut microbiome profiles in type 2 diabetes patients after COVID-19**
G. Pircalabioru (Bucharest, Romania), G. Gradisteanu, M.C. Chifiriuc, O. Savu, M. Popa, L. Marutescu*

00195 **Insomnia among recovered COVID-19 individuals**
H.T. Hashim (Nassiryah, Iraq), M.A. Ramadhan*

00196 **Factors associated with self-reported post-acute COVID-19 syndrome: a real-world data study**
A. Thronicke (Berlin, Germany), M. Hinse, S. Weinert, A. Jakubowski, F. Schad, H. Matthes*

OS048 **14:45 - 15:45** **Hall K**
1-Hour Oral Session

Modelling host-pathogen interaction in persistent infections

Chairs *Luisa Martinez-Pomares (Nottingham, United Kingdom)*
Gordon Ramage (Glasgow, United Kingdom)

00197 **Antibiotic treatments can indirectly affect the expression of *Pseudomonas aeruginosa* virulence determinants *in vitro* models: a pilot study**
S. Renica (Milan, Italy), F. Magaraggia, R. Scutari, M. Antonello, C. Vismara, A. Pani, C. Alteri, F. Scaglione*

00198 **Ecological interactions in cystic fibrosis-associated pathogens alter antibiotic sensitivity of *Pseudomonas aeruginosa***
C. Koumans (Leiden, Netherlands), A. Liakopoulos, J.G.C. Van Hasselt*

00199 ***In vitro* polymicrobial wound biofilm model systems for assessing antimicrobial treatment efficacy and host-pathogen interactions**
J. Brown (Glasgow, United Kingdom), E. Townsend, R. Short, C. Williams, C. Woodall, C. Nile, G. Ramage*

00200 **Modelling host-pathogen interactions in the context of chronic wounds**
K. Lee (Nottingham, United Kingdom), D. Jackson, M. Camara, L. Martinez-Pomares*

00201 **Standardised methods to rear high-quality *Galleria mellonella* larvae for the study of fungal pathogens**
A. De Jong (Utrecht, Netherlands), D. Van Veldhuizen, A. Groot, F. Hagen*

OF049 **14:45 - 15:45** **Hall H**
1-Hour Mini-oral Flash Session

Targets for antimicrobial stewardship

Chairs *Helen Giamarellou (Athens, Greece)*
Lior Nesher (Be'er Sheva, Israel)

00202 **Identifying clinical scenarios in which POCT is most likely to improve antimicrobial stewardship in ICU: a behavioural study from the "Why Stop" collaborative**
S. Mason (London, United Kingdom), M. Nurek, M. Vizcaychipi, S. Singh*

00203 **Trends of antimicrobial use through ECDC antimicrobial indicators in Spain, 2012-21**
M. Cantero Caballero (Majadahonda, Spain), E. Jiménez Tejero, L.M. Parra Ramírez, Á. Asensio Vegas, R.M. Orti Bordas, I. Salcedo Leal*

00204 **Long-term antibiotic prescribing in the community: six-years of Australian national data**
A. Macphail (Melbourne, Australia), T. Korman, I. Woolley, J. Lau*

00205 **National action plans for antimicrobial resistance: a framework for operationalising existing plans and developing a research strategy to address gaps and opportunities**
E. Charani (London, United Kingdom), M. Mendelson, R. Ahmad, M. Mpundu, O. Mbamalu, C. Bonaconsa, S. Singh, N. Peiffer-Smadja, S. Pallett, V. Anton Vazquez, L. Moore, J. Schouten, T. Kostyanev, V. Vlahovic-Palcevski, D. Kofteridis, A. Holmes*

00206 **Identifying relevant targets for antimicrobial stewardship: appropriateness of surgical prophylaxis in paediatric surgery**
A.M. Colombari (Verona, Italy), E. Rigotti, E. Carrara, F. Opri, M. Sibani, M. Gaffuri, F. Sala, G.B. Luciani, F.L. Ribichini, B. Magnan, M. Balsano, M. Carlucci, E. Tacconelli, G. Piacentini*

00207 **Exploring the case for a standardised physical appearance of oral generic antibiotics: a summary of expert roundtable meetings**
A. Monnier (Nijmegen, Netherlands), T. Sharmeen, N.T. Do, S. Afari-Asiedu, K.P. Asante, M.A. Abdulai, W.A. Khan, M.A. Matin, K. Munguambe, H. Boene, E. Sevene, N. Torres, S. Punpueng, M. Sunpuwan, T.K. Tran, C.T.K. Nguyen, X. Gómez-Olivé, P.N. Newton, C. Caillet, K. Van Assche, H.R. Van Doorn, P. Ariana, H.F.L. Wertheim*

00208 **Development of national indicators for the antimicrobial stewardship in French nursing homes based on reimbursement data: results from a modified delphi process**
G. Birgand (Nantes, France), A. Asquier-Khati, C. Deschanvres, A. Chaslerie, O. Pereira, C. Pulcini, D. Boutoille*

00209 **Variability in antimicrobial consumption among nursing homes and the impacts of length of stay and preceding acute care stay: a nationwide cohort study at the US veterans health administration**
M. Goto (Iowa City, United States), S. Kakiuchi, D. Livorsi, D. Perencevich, M. Ohl*

00210 **Alterative antimicrobial stewardship interventions can impact breath of spectrum but not volume of antibacterials in UK emergency departments: an analysis of two London teaching hospitals over 5 years**
S. Hughes (London, United Kingdom), O. Troise, P. Deol, N. Mughal, L. Moore*

VW050 **14:45 - 15:45** **Arena 1**
Virtual Walk Through

Wise use of bioinformatics to study diversity and transmission in endemic and outbreak settings

Reviewer *Anita Schürch (Utrecht, Netherlands)*
Moderator *Helena Seth-Smith (Basel, Switzerland)*

ID

SY051 **16:15 - 18:15** **Hall E**
Symposium

Molecular-guided therapy for sexually transmitted infections

Chairs *Michael Beeton (Cardiff, United Kingdom)*
Titia M. Kortbeek (Bilthoven, Netherlands)

SO211 **16:15** **Molecular-guided therapy for *Mycoplasma genitalium***
Catriona Bradshaw (Carlton, Australia)

SO212 **16:45** **Molecular-guided therapy for gonorrhea**
Magnus Unemo (Örebro, Sweden)

SO213 **17:15** **Molecular-guided therapy for *Chlamydia trachomatis***
Cecile Bebear (Bordeaux, France)

SO214 **17:45** **STIs in a sexual assault: sampling guidelines**
Amparo Fernández-Rodríguez (Madrid, Spain)

Co-organised with: ESCMID Study Group for Genomic and Molecular Diagnostics (ESGMD), ESCMID Study Group for Mycoplasma and Chlamydia Infections (ESGAMC), ESCMID Study Group for Forensic and Postmortem Microbiology (ESGFOR), Study Group of Sexually Transmitted Diseases of the SEIMC (GEITS)

PH

EW052 **16:15 - 18:15** **Hall B**
Educational Workshop

COVID-19 vaccination of special populations: protecting the vulnerable

Chairs *Olivier Epaulard (Grenoble, France)*
Zitta Barrella Harboe (Hillerød, Denmark)

W0215 **16:15** **Vaccinating immunocompromised individuals**
Aruna Subramanian (Stanford, United States)

W0216 **16:45** **Vaccinating individuals with underlying medical conditions associated with high risk for severe COVID-19**
TBA

W0217 **17:15** **Vaccination of infants and children, and of pregnant women**
Christoph Berger (Zurich, Switzerland)

Co-organised with: ESCMID Study Group on Vaccines (EVASG), ESCMID Professional Affairs Subcommittee (PAS), ESCMID International Affairs Subcommittee (EIAS)

ID

EW053 **16:15 - 18:15** **Hall F**

Educational Workshop

Opportunistic infections of the central nervous system

Chairs *Bettina Pfausler (Innsbruck, Austria)*
Willeke Westendorp (Amsterdam, Netherlands)

W0218 **16:15** **Suspecting CNS infection in haemato-oncology patients**
Jacob Bodilsen (Aalborg, Denmark)

W0219 **16:45** **Infections of the CNS in solid organ transplant patients**
Judith Anesi (Philadelphia, United States)

W0220 **17:15** **Fungal CNS infections in immunocompromised patients**
Stefan Schwartz (Berlin, Germany)

Co-organised with: ESCMID Study Group for Infectious Diseases of the Brain (ESGIB)

ID

EW054 **16:15 - 18:15** **Hall I**

Educational Workshop

What is new in nocardiosis?

Chairs *María Ercibengoa Arana (San Sebastian, Spain)*
Mehdi Fatahi-Bafghi
(Yazd, Iran, Islamic Republic of)

W0221 **16:15** **Challenges in susceptibility testing of *Nocardia***
Barbara Brown-Elliott (Tyler, United States)

W0222 **16:45** **Risk factors among susceptible populations: is there a role for prophylaxis?**
David Lebeaux (Paris, France)

W0223 **17:15** **Tailor-made treatment regimens for nocardiosis: can imaging and other clinical markers guide therapeutic decision making?**
Ili Margalit (Petah Tikva, Israel)

ID CM

EW055 **16:15 - 18:15** **Hall K**

Educational Workshop

Should economical aspects be considered for CM/ID/ICP guidelines?

Chairs *Chantal Morel (Bonn, Germany)*
Luigia Scudeller (Bologna, Italy)

W0224 **16:15** **The current state of inclusion of economic issues in infectious disease guidelines**
Ravi Jhaveri (Chicago, United States)

W0225 **16:45** **Pro (considering economic aspects for guideline development)**
Joost Hopman (Nijmegen, Netherlands)

W0226 **17:15** **Con (considering economic aspects for guideline development)**
Benedikt Huttner (Geneva, Switzerland)

Co-organised with: ESCMID Guidelines Subcommittee (GL-SC)

CM

EW056 **16:15 - 18:15** **Hall N**

Educational Workshop

The quest for reliable biofilm models: how to narrow the gap to clinical implementation?

Chairs *Elisa Borghi (Milan, Italy)*
Gordon Ramage (Glasgow, United Kingdom)

W0227 **16:15** **Real-time monitoring of biofilms using confocal microscopy**
Mathias Müsken (Braunschweig, Germany)

W0228 **16:45** **Bacterial infection models based on organoid cell cultures**
Helle Krogh Johansen (Copenhagen, Denmark)

W0229 **17:15** ***In vivo* models: studying soft tissue infection**
Kendra P. Rumbaugh (Lubbock, United States)

Co-organised with: ESCMID Study Group for Biofilms (ESGB)

OS057 **16:15 - 18:15** **Hall C**

2-Hour Oral Session

Digging in the molecular epidemiology of MDR Enterobacterales

Chairs *Lorena Lopez Cerero (Seville, Spain)*
Dror Marchaim (Beer Yaacov, Israel)

O0230 **Expansion of Enterobacterales producing VIM-type carbapenemases in Poland, 2006-19: general analysis**
R. Izdebski (Warsaw, Poland), M. Biedrzycka, P. Urbanowicz, D. Zabicka, E. Literacka, M. Gniadkowski*

O0231 **Dissemination of carbapenemase producing Enterobacterales in Ireland from 2012- 2017: a retrospective genomic surveillance study**
N.F. Hadjirin (Cambridge, United Kingdom), A.J. Van Tonder, J.A. Lees, N. Kumar, N. Delappe, W. Brennan, E. Mcgrath, J. Parkhill, M. Cormican, S.J. Peacock, C. Ludden*

O0232 ***Klebsiella variicola* population structure and antibiotic resistance**
J. Wang (Edinburgh, United Kingdom), C. Swart-Coipan, E. Wessels, E. Feil, E. Franz, T. Dorai-Schneiders*

O0233 **A genetic cluster of OXA-244 carbapenemase-producing *Escherichia coli* ST38 with uropathogenicity factors in the Netherlands**
D.W. Notermans (Bilthoven, Netherlands), A.F. Schoffelen, F. Landman, L.H. Wielders, S. Witteveen, M. Van Santen-Verheuvel, S.C. De Greeff, E. Kuijper, A.P.A. Hendrickx*

O0234 **Multispecies carriage of KPC-2: an outbreak centred on the mobilome**
K. Xanthopoulou (Cologne, Germany), J. Wille, V. Persy, T. Burgwinkel, K. Lucaßen, J. Zweigner, A. Meißner, H. Seifert, P.G. Higgins*

00235 **Reduced chlorhexidine susceptibility in invasive *Klebsiella pneumoniae* ST258 bla_{KPC2}-producing isolates**
M. Roch (Geneva, Switzerland), R. Sierra, A.C. Gales, D.O. Andrey*

00236 **Emerging threat of carbapenem-resistant and hypervirulent *Klebsiella pneumoniae* in healthcare setting, South Korea: a retrospective observational, single-centre study**
M.J. Kim (Seoul, Korea, Republic of), Y.S. Chung, Y. Jeong*

00237 **Molecular surveillance of NDM-5-producing *Escherichia coli* revealed the countrywide dissemination of certain high-risk clones in Germany, 2013 to 2019**
J.B. Hans (Bochum, Germany), N. Pfennigwerth, B. Neumann, Y. Pfeifer, M.A. Fischer, J. Eisfeld, J. Schauer, S. Gatermann, G. Werner*

00238 **Molecular features and transmission of NDM-producing Enterobacterales in Israeli hospitals**
A. Adler (Tel Aviv, Israel), H. Ghosh, A. Gross, A. Rechavi, M. Lasnoy, M. Assous, Y. Geffen, M. Paul, Y. Wiener-Well, S. Reuter, H. Grundmann*

00239 **High prevalence of OXA-23 carbapenemase-producing *Proteus mirabilis* among amoxicillin-clavulanate-resistant isolates in France**
L. Dortet (Le Kremlin-Bicêtre, France), A. Lombes, R.A. Bonnin, F. Laurent, H. Guet-Revillet, E. Bille, V. Cattoir, M.S. Fangous, C. Le Brun, V. Fihman, F. Janvier, A. Potron, S. Corvec, A. Mizrahi*

OS058 **16:15 - 18:15** **Hall H**
2-Hour Oral Session

Current treatment approach to COVID-19

Chairs *Dominique Braun (Zurich, Switzerland)*
Karine Lacombe (Paris, France)

00240 **Safety and feasibility of monoclonal antibody therapies in children with SARS-CoV-2 infection**
L. Romani (Rome, Italy), S. Bernardi, S. Chiurchiu', L. Cursi, F.I. Calò Carducci, M. Di Giuseppe, M. De Luca, L. Vallesi, A. Smarrazzo, P. Merli, A. Campana, L. Lancella, E. Nicastri, P. Palma, M. Raponi, P. Rossi*

00241 **Antibody cocktail (casirivimab/imdevimab) for the treatment of inpatients with early hospital-acquired COVID-19: a single-centre experience**
A. Faraone (Florence, Italy), T. Picchioni, G. Scocchera, P. Carrai, A. Lo Forte, S. Sbaragli, M. Bettucchi, A. Fortini*

00242 **Impact of using steroids and interleukin (IL-1 and IL-6) inhibitors on secondary infections and fatality in severe and critical COVID-19 cases**
Ö. Ergönül (Istanbul, Turkey), E. Er Gülbezer, M. Kapmaz, P. Irkören, M.G. Gönenli, S. Iliaz, B. Dikenelli, E. Sentürk, S. Tekin, N. Alpay Kanitez*

00243 **Dual monoclonal antibodies in SARS-CoV-2 infected patients: clinical and virological efficacy**
N. Peiffer-Smadja (Paris, France), L. Kramer, V.M. Ferré, R. Coppée, A. Kanté, M. Debarge, C. Choquet, T. De Saint Joannis, D. Bouzid, J. Messika, J. Le Grand, M. Thy, S. Kerneis, D. Descamps, J. Ghosn, B. Visseaux*

00244 **Synergistic inhibitory effect of remdesivir and ribavirin against human coronavirus 229E**
C. García-Crespo (Madrid, Spain), A.I. De Ávila, I. Gallego, M.E. Soria, B. Martínez-González, L. Vázquez-Sirvent, E. Domingo, C. Perales*

00245 **Use of high-dose casirivimab/imdevimab to treat anti-spike seronegative patients hospitalised with COVID-19: first experiences from a tertiary care centre in Florence, Italy**
T. Manciulli (Florence, Italy), M. Spinicci, A. Barbiero, R. Paggi, A. Miftode, M. Tilli, S.T. Kiros, J. Mencarini, F. Lagi, N. Di Lauria, L. Zammarchi, A. Bartoloni*

00246 **Impact of home treatment with glucocorticoids in patients with COVID-19 pneumonia**
E. Franceschini (Modena, Italy), A. Dessilani, A. Cozzi-Lepri, V. Iadisernia, M. Digaetano, G. Cuomo, E. Bacca, F. Carli, M. Menozzi, G. Guaraldi, C. Mussini*

00247 **Real-world baricitinib use in critically ill patients with COVID-19 during tocilizumab shortage at a large academic health-system in Miami, Florida**
K.J. Deronde (Miami, United States), A.D. Vega, C.A. Vu, R. Boatwright, J.C. Simon, V. Salazar, C.M. Mauriello, E. Cano, R. Rosa, L.M. Abbo*

00248 **Tocilizumab treatment in adult patients with moderate to critical COVID-19 pneumonia: a retrospective study in a teaching hospital of infectious diseases, Cluj-Napoca, Romania**
M. Muntean (Cluj-Napoca, Romania), A. Radulescu, A. Istrate, A. Csiszer, R. Dobrota*

00249 **Clinical effectiveness of REGN-COV2, a neutralising antibody cocktail in patients with COVID-19 in Japan: a retrospective cohort study with a bayesian inference**
N. Amano (Kakogawa, Japan), S. Iwata*

EUCAST
EUROPEAN COMMITTEE ON ANTIMICROBIAL SUSCEPTIBILITY TESTING
European Society of Clinical Microbiology and Infectious Diseases

ESCMID presents:

EUCAST at ECCMID 2022

Saturday, 23 April 2022
08:30 - 11:30 Hall A
Educational Workshop

EUCAST Educational Workshop
Chairs *Alasdair P. Macgowan (Bristol, United Kingdom)*
Arjana Tambić-Andrašević (Zagreb, Croatia)

08:30 **EUCAST Update**
Christian Giske (Stockholm, Sweden)
09:00 **Putting certainty into antimicrobial susceptibility testing**
Gunnar Kahlmeter (Växjö, Sweden)
09:30 **PK/PD breakpoints in the EUCAST breakpoint tables**
Shampa Das (Liverpool, United Kingdom)
10:00 **Revising aminopenicillin breakpoints**
John D. Turnidge (Hawthorn, Australia)
10:30 **Screening and testing for antifungal resistance**
Maiken Arendrup (Copenhagen, Denmark)

Co-organised with: EUCAST Steering Committee, ESCMID Study Group for Antimicrobial Resistance Surveillance (ESGARS)

Sunday, 24 April 2022
07:15 - 08:15 Hall I
Meet-the-Expert

EUCAST Frequently Asked Questions

07:15 *Erika Matuschek (Växjö, Sweden)*
07:45 *Mandy Wootton (Cardiff, United Kingdom)*

Co-organised with: EUCAST Steering Committee

Sunday, 24 April 2022
11:00 - 12:00 Hall N
Symposium

Updates on antimicrobial susceptibility testing of mycobacteria
Chairs *Thomas Schön (Kalmar, Sweden)*
Florian Maurer (Borstel, Germany)

11:00 **Updates and open questions on the recently revised WHO critical concentrations for antimicrobial susceptibility testing of *Mycobacterium tuberculosis* complex**
Claudia Köser (Cambridge, United Kingdom)
11:30 **The EUCAST approach for drug susceptibility testing of mycobacteria: past, present, future**
Emmanuelle Cambau (Paris, France)

Co-organised with: ESCMID Study Group for Mycobacterial Infections (ESGMYC), EUCAST Subcommittee on Antimycobacterial Susceptibility Testing (EUCAST-AMST)

ESCMID
MANAGING INFECTIONS
PROMOTING SCIENCE



Scientific Programme Overview
Sunday, 24 April 2022

Hall A	Hall B	Hall C	Hall D	Hall E	Hall F
		07:15 - 08:15			07:15 - 08:15
		ME059 External quality assessment in microbial genomics (CM)			ME060 Nosocomial transmission of SARS-CoV-2: have you looked at all the risks? (IC)
08:30 - 10:30	08:30 - 10:30	08:30 - 10:30	08:30 - 09:30	08:30 - 10:30	08:30 - 10:30
KN067 Excellence Award lectures	SY068 New developments in antimicrobial resistance and virulence of anaerobic pathogens (CM)	SY069 Different perspectives on infectious diseases diagnostics in LMICs (CM)	OS077 Challenges associated with *Capnocytophaga* infections	SY070 COVID-19: vaccinating the whole world? (PH)	SY071 Update on the WHO strategy to eliminate viral hepatitis (PH)
11:00 - 12:00	11:00 - 12:00	11:00 - 12:00	11:00 - 12:00	11:00 - 12:00	11:00 - 12:00
KN080 Dealing with the complexity of pandemics: the future is now (PH)	OS086 Rapid detection of emerging SARS-CoV-2 variants	SY081 Hepatitis E: an update (ID)	OS090 Unusual fungal infections from around the globe	SY082 Year in Infectious Diseases (ID)	SY083 Fighting biofilm with non-traditional anti-bacterials (CM)
13:30 - 14:30	13:30 - 15:30	13:30 - 15:30	13:30 - 14:30	13:30 - 15:30	13:30 - 15:30
KN096 Never let an outbreak go to waste: how COVID-19 has changed hospital epidemiology and infection prevention and control (IC)	SY097 Impact of rapid diagnostics for community-acquired acute respiratory tract infections (CA-ARTI) on antibiotic stewardship (CM)	EW100 Subacute and chronic meningitis (ID)	OS104 Challenging mycobacterial infections	SY098 Vaccinated or non-vaccinated: patients are not healthcare workers, and the flu is not COVID-19 (PH)	EW101 Don't get lost in translation: the use of preclinical PK/PD models in anti-infective drug development (CM)
14:45 - 15:45			14:45 - 15:45		
KN107 AI revolution in medicine			OS111 Management of orthopaedic infections		
16:15 - 18:15	16:15 - 18:15	16:15 - 18:15		16:15 - 18:15	16:15 - 18:15
SY114 Late-breaking research from The Lancet group	SY115 Updates on HIV treatment and prevention (ID)	OS120 Sepsis biomarkers: from gene to score		SY116 Host and viral factors in COVID-19, what makes us sick? (CM)	SY117 Emerging priorities and developments for antifungals and fungal infections (ID)

All times are specified in WEST (UTC +1). If attending online, please convert to your local timezone.

Colour Key

Educational Workshops, Meet-the-Expert Sessions | Symposia (1h/2h) | Oral sessions (1h/2h)
Keynote Lectures | Open Forum & Virtual Walk Throughs
Integrated Symposia & Pipeline Corners are not detailed in this book. Please refer to the Industry Guide for session details.

Sessions specifically interesting for:

(ID) Infectious Disease specialists (CM) Clinical Microbiologists (IC) Infection Control specialists (PH) Public Health specialists

Hall G	Hall H	Hall I	Hall J	Hall K	Hall L
07:15 - 08:15	**07:15 - 08:15**	**07:15 - 08:15**			**07:15 - 08:15**
ME061	ME062	ME063			ME064
Getting to yes: strengthening vaccine uptake in hard-to-reach and vaccine hesitant communities (PH)	Diagnosis and treatment of herpes simplex encephalitis (ID)	EUCAST Frequently Asked Questions (CM)			Current approaches to prevent invasive fungal diseases in pediatric patients (ID)
08:30 - 10:30	**08:30 - 10:30**	**08:30 - 10:30**	**08:30 - 10:30**	**08:30 - 10:30**	**08:30 - 10:30**
OS074	OS075	EW073	SY072	OS076	IS15
SARS-CoV-2 transmission in healthcare environments: detection and prevention	Clinical PK/PD studies and TDM to improve dosing of anti-infectives	Optimising the use of antibiotics for neonates and children (ID)	Supporting evidence in infection prevention and control: 2022 ESCMID guidelines (IC)	Endocarditis, mice and men	After the COVID-19 tide: exploring novel approaches in infectious diseases diagnostics from syndromic to immune testing
11:00 - 12:00	**11:00 - 12:00**	**11:00 - 12:00**		**11:00 - 12:00**	**11:00 - 12:00**
OS087	OS088	SY084		OF091	OF092
UTI: from mild to complicated, from diagnosis to treatment	Resistance markers in sexually transmitted bacteria	Combination therapies: from models to patients (ID)		New insights into pathogens virulence: human and microbial factors	Pathogenesis of fungal infections: the host and pathogen point of view
					12:15 - 13:15
					IS19
					Control disease immediately: think *C. difficile* infection, think COVID!
13:30 - 15:30	**13:30 - 14:30**	**13:30 - 14:30**		**13:30 - 14:30**	**13:30 - 15:30**
EW102	OF105	SY099		OF106	IS24
How to use intervention and implementation research to mitigate AMR (PH)	Epidemiology of parasites, here and there	The changing epidemiology of West Nile fever virus in Europe (ID)		All about intracellular and rare bacteria	Optimising treatment of invasive fungal infections in critically ill patients
	14:45 - 15:45	**14:45 - 15:45**	**14:45 - 15:45**	**14:45 - 15:45**	
	SY108	OS110	SY109	OF112	
	Imported cutaneous leishmaniasis in Europe by the thousand: is it all the same? (PH)	Elimination of HBV and HCV	The changing picture of childhood pneumonia (ID)	Update on epidemiology and resistance in *Staphylococcus aureus* and *Enterococcus*	
16:15 - 18:15	**16:15 - 18:15**	**16:15 - 18:15**	**16:15 - 18:15**	**16:15 - 18:15**	**16:15 - 18:15**
OS121	OS122	EW118	EW119	OS123	IS28
Genomic epidemiology of nosocomial infections	AMR *Acinetobacter, Pseudomonas* and *Salmonella*: what is new?	The different faces of Lyme borreliosis (ID)	How to make clinical trials more efficient (ID)	What's fast, new and relevant in infectious disease diagnostics?	Innovative and scalable molecular solutions for infectious disease testing

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Scientific Programme Overview
Sunday, 24 April 2022

Hall M	Hall N	Hall O	Hall P	Hall Q
	07:15 – 08:15		**07:15 – 08:15**	
	ME065 Contact precautions and cleaning for MDR prevention (IC)		ME066 FDG-PET/CT and outcome of infections in immunosuppressed patients (ID)	
08:30 - 10:30	**08:30 - 10:30**		**08:30 - 10:30**	**08:30 - 10:30**
IS16 Spotlight on antifungals: are we well equipped for treating invasive fungal disease?	IS14 Conquer the case: integrating microbiological testing and the immune status of the host into clinical decision making		IS17 Facing a 'new normal': co-existence of SARS-CoV-2 and respiratory viruses	IS18 A Moment to Reset: harnessing learnings to tackle antimicrobial resistance in the community
11:00 - 12:00	**11:00 - 12:00**	**11:00 - 12:00**		**11:00 - 12:00**
OF093 COVID-19 vaccine immunogenicity and effectiveness in the immune compromised host	SY085 Updates on antimicrobial susceptibility testing of mycobacteria (CM)	OF094 New faces in the camp of AMR pathogens		OS089 Pathophysiology and prognosis in COVID-19 infection
	12:15 - 13:15	**12:15 - 13:15**	**12:15 - 13:15**	**12:15 - 13:15**
	IS20 Staying ahead of the virus: evolving preventative strategies to manage COVID-19 variants	IS21 Rapid AST on positive blood cultures: new standards in rapid susceptibility testing?	IS22 Time to rethink NTM: understanding your at-risk MAC-PD patients and optimising their outcomes	IS23 Intravenous fosfomycin: comprehensive new data evaluation for this WHO essential antibiotic for...
13:30 - 15:30	**13:30 - 15:30**	**13:30 - 15:30**	**13:30 - 15:30**	**13:30 - 15:30**
OS103 The Public Health response to COVID-19	IS25 Moving insights into action: how innovative rapid diagnostics impact treatment decisions	IS25A Evolution of rapid metagenomics for infectious disease applications	IS26 Future-proofing mould disease diagnosis and treatment: the post-pandemic era	IS27 COVID-19 today: outpatient treatment options and considerations
	16:15 - 18:15	**16:15 - 18:15**	**16:15 - 18:15**	**16:15 - 18:15**
	IS29 Reviewing 20 years of managing invasive mould infections: lessons learned and remaining challenges	IS30 RSV burden: the need for all infant protection	IS31 New data, fresh perspectives: an update on CAP and SSTI	IS32 In light of the COVID-19 pandemic: how can new antibiotics help reduce the pressure on hospitals and facilitate early discharge?

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Arena 1 & 2

Session Time	Session			Arena
08:30 - 09:30	VW078	Virtual Walk Through	Multiple drug-resistant bacteria and COVID-19: a double whammy	**2**
09:30 - 10:30	VW079	Virtual Walk Through	*Staphylococcus aureus*, a long way to the top	**1**
12:15 - 13:15	F0095	Open Forum	Is Twitter the new ID textbook?	**1**
12:15 - 13:15	F0095A	Open Forum	When science gets politicised; experiences from the COVID-19 pandemic	**2**
14:45 - 15:45	VW113	Virtual Walk Through	Efficacy and immunity of established vaccines	**2**
16:15 - 17:15	VW124	Virtual Walk Through	Standardised methods for antimicrobial susceptibility testing	**2**

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„the first 35 years“

Brochure available at

https://www.escmid.org/membership_organisation/about_escmid/history/



ESCMID
MANAGING INFECTIONS
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Scientific Programme
Sunday, 24 April 2022

CM

ME059 **07:15 - 08:15** **Hall C**
Meet-the-Expert
External quality assessment in genomics

M0250 **07:15** *Aitana Lebrand (Geneva, Switzerland)*
M0251 **07:45** *Denise O'Sullivan (London, United Kingdom)*

Co-organised with: ESCMID Study Group for Genomic and Molecular Diagnostics (ESGMD), ESCMID Study Group for Epidemiological Markers (ESGEM)

IC

ME060 **07:15 - 08:15** **Hall F**
Meet-the-Expert
Nosocomial transmission of SARS-CoV-2: have you looked at all the risks?

M0252 **07:15** *Emine Alp Mese (Ankara, Turkey)*
M0253 **07:45** *Michihiko Goto (Iowa City, United States)*

PH

ME061 **07:15 - 08:15** **Hall G**
Meet-the-Expert
Getting to yes: strengthening vaccine uptake in hard-to-reach and vaccine hesitant communities

M0254 **07:15** *Sally Hargreaves (London, United Kingdom)*
M0255 **07:45** *Stephanie Vandentorren (Paris, France)*

Co-organised with: ESCMID Study Group for Infections in Travellers and Migrants (ESGITM)

ID

ME062 **07:15 - 08:15** **Hall H**
Meet-the-Expert
Diagnosis and treatment of herpes simplex encephalitis

M0256 **07:15** *Oguz Resat Sipahi (Izmir, Turkey)*
M0257 **07:45** *Jean Paul Stahl (Corenc, France)*

Co-organised with: Infectious Diseases and Clinical Microbiology Specialty Society of Turkey (EKMUD)

CM

ME063 **07:15 - 08:15** **Hall I**
Meet-the-Expert
EUCAST Frequently Asked Questions

M0258 **07:15** *Erika Matuschek (Växjö, Sweden)*
M0259 **07:45** *Mandy Wootton (Cardiff, United Kingdom)*

Co-organised with: EUCAST Steering Committee

ID

ME064 **07:15 - 08:15** **Hall L**
Meet-the-Expert
Current approaches to prevent invasive fungal diseases in paediatric patients

M0260 **07:15** *Andreas H. Groll (Münster, Germany)*
M0260A **07:45** *Maria Elena Santolaya (Santiago, Chile)*

IC

ME065 **07:15 - 08:15** **Hall N**
Meet-the-Expert
Contact precautions and cleaning for MDR prevention

M0261 **07:15** *Stephanie J. Dancer (Glasgow, United Kingdom)*
M0262 **07:45** *Gonzalo Bearman (Richmond, United States)*

Co-organised with: EUCIC Steering Committee

ID

ME066 **07:15 - 08:15** **Hall P**
Meet-the-Expert
FDG-PET/CT and outcome of infections in immunosuppressed patients

M0263 **07:15** *Nesrin Ghanem-Zoubi (Haifa, Israel)*
M0264 **07:45** *Alfred O. Ankrah (Accra, Ghana)*

Co-organised with: ESCMID Study Group for Immunocompromised Hosts (ESGICH), International Immunocompromised Host Society (ICHS)

Presentations in light grey were not registered at the time of publishing.

KN067 **08:30 - 10:30** **Hall A**
Keynote lecture



Excellence Award lectures
Chairs
Jesús Rodríguez-Baño (Seville, Spain)
Maurizio Sanguinetti (Rome, Italy)
KN0265 08:30 Characterising SARS-CoV-2, the virus that caused the COVID-19 pandemic: an ongoing effort
Bart Haagmans (Rotterdam, Netherlands)

Bart Haagmans is a virologist working at the Viroscience department, Erasmus medical center in Rotterdam, Netherlands. His research line focusses on the pathogenesis of viral infections and especially those viruses that emerge through zoonotic transmission, as a basis for (future) interventions and medical countermeasures. This brings together work performed earlier at the Veterinary faculty in Utrecht and more recent work on human viruses in Rotterdam. He brings a strong track record of fundamental and applied research of MERS-CoV, SARS-CoV and SARS-CoV-2. In collaboration with international teams, the novel coronavirus was classified as SARS-CoV-2, diagnostic assays were developed and validated while animal and *in vitro* organoid models were set up to further understand pathogenesis and test (antibody based) intervention strategies. Development of reagents, vaccines and protocols for molecular and serological detection of these emerging viral pathogens lead to options for interventions and medical countermeasures. Dr. Haagmans has more than 230 publications on different subjects in (clinical) virology, identification and characterization of novel emerging viruses and the development of vaccines. He is an expert consultant of WHO, FAO and OIE on coronaviruses as well as a member of the the Coronaviridae Study Group of the ICTV. He is PI on several Dutch and EU grants and is co-coordinating the IMI ZAPI project, focused on zoonotic anticipation and preparedness initiatives, and amongst others led to discovery of broadly cross-reactive monoclonal antibodies against beta coronaviruses.

Fireplace Session 24 April, **11:00 - 12:00**



Excellence Award lectures
Chairs
Jesús Rodríguez-Baño (Seville, Spain)
Maurizio Sanguinetti (Rome, Italy)
K0266 09:30 Transcending European clinical research in infectious diseases through collaboration to break down traditional silos
Herman Goossens (Edegem, Belgium)

Prof. Herman Goossens is a full professor of Medical Microbiology at the University of Antwerp in Belgium since 1992, director of the laboratory of Clinical Microbiology at the University Hospital Antwerp since 1992 and director of Laboratory Medicine of the University Hospital Antwerp since 1997. His professional goal is to bridge the gap between basic and clinical research, with a major focus on antibiotic resistance, to enhance the standard of healthcare, public health and professional standards, for the good of the public in large. Prof. Goossens's current research is focused on five areas. First, the detection and genetic mechanisms involved in the emergence and evolution of antibiotic resistance and virulence in bacteria and its epidemiological and ecological bases and implications. Second, studying antimicrobial use in hospitals, the community and long-term care facilities, developing indicators of use and quality of prescribing, initially in Europe, later globally, focusing on Low and Middle Income Countries. Third, linking scientific and clinical research throughout Europe in lower respiratory tract infections, in primary health care and hospital medical practice. Fourth, better preparing Europe for emerging infectious diseases and pandemics. Fifth, building a network of more than 800 diagnostic labs in more than 40 countries in Europe to support clinical trials that investigate the utility of new antimicrobial strategies and diagnostics. Prof. Goossens authored more than 600 Web of Science cited papers, and his papers have been cited close to 25,000 times. In 2008 Prof. Goossens obtained the prestigious status of Methusalem top-scientist from the Flemish government.

Fireplace Session 24 April, **11:00 - 12:00**

CM

SY068 **08:30 - 10:30** **Hall B**
Symposium

New developments in antimicrobial resistance and virulence of anaerobic pathogens

Chairs *Alida C.M. Veloo (Groningen, Netherlands)*
Edit Urbán (Pécs, Hungary)

S0267 **08:30** **EUCAST recommended method for antimicrobial susceptibility testing of anaerobic bacteria**
Erika Matuschek (Växjö, Sweden)

S0268 **09:00** **Carbapenem and metronidazole resistance mechanisms of *Bacteroides***
Jozsef Soki (Szeged, Hungary)

S0269 **09:30** ***Bacteroides fragilis*: a tale of two habitats**
Sheila Patrick (Belfast, United Kingdom)

S0270 **10:00** **One step further: complementing phenotypical susceptibility testing and typing of *Bacteroides* using whole genome sequencing**
Thomas Vognbjerg Sydenham (Odense, Denmark)

Co-organised with: ESCMID Study Group for Anaerobic Infections (ESGAI)

CM

SY069 **08:30 - 10:30** **Hall C**
Symposium

Different perspectives on infectious diseases diagnostics in LMICs

Chairs *Elsie Ilori (Abuja, Nigeria)*
Michael L. Wilson (Denver, United States)

S0271 **08:30** **Overview of The Lancet Commission on Diagnostics**
Mikashmi Kohli (Geneva, Switzerland)

S0272 **09:00** **Developing a national essential diagnostics list**
Kamini Walia (New Delhi, India)

S0273 **09:30** **Current diagnostic capacities, and the impact of COVID-19 in LMICs**
Adeola Fowotade (Ibadan, Nigeria)

S0274 **10:00** **Review of the contribution of mobile laboratories in the response to outbreaks of VHFs and the COVID-19 pandemic**
Sayed Shahin (Nairobi, Kenya)

Co-organised with: The Lancet Commission on Diagnostics

PH

SY070 **08:30 - 10:30** **Hall E**
Symposium

COVID-19: vaccinating the whole world?

Chairs *Nicola Petrosillo (Rome, Italy)*
Makeda Semret (Montreal, Canada)

S0275 **08:30** **Challenges to reach everyone on Earth**
Yazdan Yazdanpanah (Paris, France)

S0276 **09:00** **COVID-19 vaccination roll-out: equal access to COVID-19 vaccines and vaccinating hard-to-reach populations**
Jose Tuells (Alicante, Spain)

S0277 **09:30** **COVID vaccines acceptance and hesitancy**
Marco Safadi (São Paulo, Brazil)

S0278 **10:00** **Rethinking the ethics of vaccination and use of facemasks: balancing public good with human rights considerations**
Raquel Duarte (Porto, Portugal)

Co-organised with: ESCMID Professional Affairs Subcommittee, ESCMID Study Group on Vaccines (EVASG), ESCMID International Affairs Subcommittee (EIAS), World Association for Infectious Diseases and Immunological Disorders (Waidid)

PH

SY071 **08:30 - 10:30** **Hall F**
Symposium

Update on the WHO strategy to eliminate viral hepatitis

Chairs *Arjan Harxhi (Tirana, Albania)*
Adriana Vince (Zagreb, Croatia)

S0279 **08:30** **The 2021 WHO global progress report**
Olufunmilayo Lesi (Lagos, Nigeria)

S0280 **09:00** **Monitoring progress towards the elimination targets in EU/EEA countries**
Erika Duffell (Stockholm, Sweden)

S0281 **09:30** **Viral hepatitis elimination in Turkey**
Nurcan Baykam (Çorum, Turkey)

S0282 **10:00** **HCV elimination in Egypt**
Manal Elsayed (Cairo, Egypt)

Co-organised with: ESCMID Study Group for Viral Hepatitis (ESGVH)

IC

SY072 **08:30 - 10:30** **Hall J**
Symposium

Supporting evidence in infection prevention and control: 2022 ESCMID guidelines

Chairs *Biljana Carevic (Belgrade, Serbia)*
Priscilla Rupali (Velore, India)

S0283 **08:30** **Surgical prophylaxis in patients colonised with multidrug resistant Gram-negatives**
Evelina Tacconelli (Verona, Italy)

S0284 **09:00** **Surgical prophylaxis in patients colonised with multidrug resistant Gram-positives**
Jan A.J.W. Kluytmans (Utrecht, Netherlands)

S0285 **09:30** **Screening procedures in healthcare workers and patients during COVID-pandemic**
Anders Johansson (Umea, Sweden)

S0286 **10:00** **Preventing transmission of multidrug resistant Gram-negatives in hospitalised patients**
Nico Tom Mutters (Bonn, Germany)

Co-organised with: EUCIC Steering Committee

ID

EW073 **08:30 - 10:30** **Hall I**
Educational Workshop

Optimising the use of antibiotics for neonates and children

Chairs *Bojana Beovic (Ljubljana, Slovenia)*
TBA

W0287 **08:30** **Antibiotic use and stewardship in the PICU**
Hanna Renk (Tübingen, Germany)

W0288 **09:00** **Antibiotic use and stewardship in the NICU**
Angelika Berger (Vienna, Austria)

W0289 **09:30** **Surgical prophylaxis in neonates and children**
Elio Castagnola (Genoa, Italy)

Co-organised with: European Society of Paediatric and Neonatal Intensive Care (ESPNIC)

OS074 **08:30 - 10:30** **Hall G**
2-Hour Oral Session

SARS-CoV-2 transmission in healthcare environments: detection and prevention

Chairs *Gustavo Daniel Lopardo (Vicente Lopez, Argentina)*
Andreas Voss (Groningen, Netherlands)

O0290 **Assessment of inhaled SARS-CoV-2 dose per particle size fraction in a standardised COVID-19 patient interaction: a patient proximity sampling study using a highly efficient respiratory particle collector dummy**
P. Jent (Bern, Switzerland), E. Zimmermann, O. Al-Khalil, B. Sicre, M. Wider, A. Atkinson, P. Frey, F. Suter, R. Dijkman, J. Marschall*

O0291 **Investigation of a nosocomial SARS-CoV-2 cluster in immunocompromised patients by using the association of clinical and viral molecular data**
J. Andreani (Grenoble, France), M. Gallouche, A. Caporossi, B. Nemoz, M. Le Maréchal, J. Lupo, H. Jardin, R. Germi, P. Morand, P. Poignard, C. Landelle, S. Larrat*

O0292 **SARS-CoV-2 Beta variant outbreak amongst a partially vaccinated long-term care facility population in the Netherlands: phylogenetic analysis and infection control observations**
N. Van Der Moeren (Tilburg, Netherlands), V. Weterings, S.D. Pas, J.J. Verweij, W. Van Den Bijllaardt, V.V.F. Zwart, J.A.J.W. Kluytmans, J.L.A.N. Murk, J.J.J.M. Stohr*

O0293 **Whole genome sequencing of SARS-CoV-2 to support infection prevention and control practices in the management of acute hospital outbreaks**
M. Lucey (Galway, Ireland), E. Mcgrath, S. Whelan, F. Higgins, B. Hanahoe, D. Judith, R. Waldron, U. Ni Riain, M. Cormican, D. Keady*

O0294 **A WHO multi-centre case-control study assessing the risk factors for COVID-19 infection in health workers**
A. Simniceanu (Geneva, Switzerland), M. Yin, G. Gon, B. Allegranzi, A. Cassini*

O0295 **Contextual hospital conditions and the risk of nosocomial SARS-CoV-2 infection: a matched case-control study with density sampling in a large Portuguese hospital**
F. Almeida (Porto, Portugal), S. Correia, C. Leal, R. Duro, N. Rocha-Pereira, P. Andrade, S. Pereira, C. Alves, A. Azevedo*

O0296 **Estimating the return on investment in selected infection prevention and control interventions in healthcare settings to limit the burden of SARS-CoV-2**
A. Cassini (Geneva, Switzerland), E. Ozcelik, A. Lerouge, B. Allegranzi, M. Cecchini*

O0297 **Decentralised sequencing and unified bioinformatics for SARS-CoV-2 outbreak monitoring**
K. Steinke (Odense, Denmark), L. Andersen, S.L. Larsen, S.V. Høgh, K.G. Thomsen, M.N. Skov, T.V. Sydenham*

O0298 **Reconstructing transmission chains of SARS-CoV-2 amid multiple outbreaks in a geriatric acute-care hospital**
M. Abbas (Geneva, Switzerland), A. Cori, S. Cordey, F. Laubscher, T. Robalo Nunes, J. Salamun, P. Huber, D. Zekry, V. Prendki, A. Iten, L. Vieux, V. Sauvan, C. Graf, S. Harbarth*

O0299 **Digital droplet PCR to track SARS-CoV-2 outbreak in a hospital transitional care unit**
L. Oberding (Calgary, Canada), K. Linton, J. Kim, D. Pillai*

OS075 **08:30 - 10:30** **Hall H**
2-Hour Oral Session

Clinical PK/PD studies and TDM to improve dosing of anti-infectives

Chairs *Birgit Koch (Rotterdam, Netherlands)*
Sebastian Wicha (Hamburg, Germany)

O0300 **Population toxicodynamics (TD) of intravenous polymyxin B (PB) in critically ill patients enrolled in an ongoing multi-centre prospective cohort study: prediction of incidence of acute kidney injury (AKI)**
G. Rao (Chapel Hill, United States), P. Hanafin, A. Kwa, A. Zavascki, A. Sandri, M. Scheetz, C. Kubin, J. Shah, B. Cherng, M. Yin, J. Wang, L. Wang, A. Purcell, R. Nation, K. Kaye, J. Li*

O0301 **Development of modernised *Acinetobacter baumannii* susceptibility guidance for recommended antimicrobial agents using pharmacometric approaches**
A. Lepak (Madison, United States), B. Vanscoy, H. Sader, M. Trang, J. Hammel, S. Bhavnani, P. Ambrose, D. Andes*

00302 **Model-based TDM of vancomycin: a retrospective comparison with routine TDM-based dosing**
M. Gijsen (Leuven, Belgium), H. Gastmans, E. Dreesen, N. Dia, S. Desmet, K. Lagrou, W. Peetermans, Y. Debaveye, I. Spriet*

00303 **Population pharmacokinetics and dosing simulations of cefoxitin administered by continuous IV in critically ill patients**
P. Chabert (Lyon, France), J. Provoost, S. Cohen, T. Ferry, J.C. Richard, S. Goutelle*

00304 **Pharmacokinetics and PK/PD of temocillin in non-ICU urinary tract infection patients with various stages of renal insufficiency**
G. Wijnant (Brussels, Belgium), P. Ngougni Pokem, M. Coessens, E. Cottone, L. Goeman, S. Vervaeke, F. Van Bambeke*

00305 **Pharmacokinetics and safety of colistin in older adults with extensively drug-resistant Gram-negative bacterial infections**
S. Luque (Barcelona, Spain), L. Sorli, I. Arnau, R. Güerri, N. Campillo, J. Gomez-Junyent, I. Pelegrin, S. Gómez-Zorrilla, I. Lopez, M. Arenas, M. Montero, S. Grau, J.P. Horcajada*

00306 **Population pharmacokinetics and probability of target attainment analyses of ceftolozane/tazobactam in paediatric participants**
J. Chittenden (Kenilworth, United States), N. Noormohamed, S. Basu, W. Gao, M.G. Johnson, C.J. Bruno, H.P. Feng*

00307 **Therapeutic drug monitoring of orally administered letermovir prophylaxis in allogeneic haematopoietic cell transplant recipients**
L. Royston (Geneva, Switzerland), S. Masouridi-Levrat, Y. Chalandon, C. Pressacco-Brossier, Y. Abi Aad, D. Tonoli, A. Karmime, M. Jayo, V. Gotta, M. Pfister, C. Van Delden, P. Lescuyer, D. Neofytos*

00308 **Plasma pharmacokinetics and intrapulmonary penetration of tebipenem in healthy subjects**
K. Rodvold (Chicago, United States), M. Gotfried, V. Gupta, A. Ek, Y. Lei, P. Srivastava, A. Talley, J. Bruss*

00309 **Amoxicillin crystalluria in patients receiving high doses of intravenous amoxicillin: incidence, associated factors and impact on renal function, the CRISTAMOX study**
M. Hentzien (Reims, France), S. Demotier, A. Limelette, A. Charmillon, E. Baux, X. Parent, S. Mestrallet, S. Pavel, A. Servettaz, M. Dramé, A. Muggeo, A. Wynckel, C. Gozalo, M. Abou Taam, A. Fillion, R. Jaussaud, T. Trenque, L. Piroth, F. Bani-Sadr*

00310 **Culture negative endocarditis and the value of a definite diagnosis: results from a tertiary care centre of northern Italy**
T.C. Pieri (Pavia, Italy), E. Seminari, P. Cambieri, S. Roda, M. Colaneri, I. Gallazzi, E. Asperges, E. Bono, L.N. Marvulli, R. Lissandrin, R. Bruno*

00311 **Bone marrow and spleen hypermetabolism as indirect signs of infection in an experimental endocarditis animal model**
C. García De La Mària (Barcelona, Spain), A. Perissinotti, M. Collantes, J. Llopis, M. Ecay, M.J. García-Velloso, J. García González, M.A. Cañas, M. Hernández-Meneses, A. Moreno, I. Peñuelas, D. Fuster, J.M. Miró*

00312 **Efficacy of the activity of daptomycin with ceftaroline against isolated *Staphylococcus epidermidis* causing infectious endocarditis**
C. García De La Mària (Barcelona, Spain), M. Cañas, M. Hernández Meneses, J. García González, A. Dahl, C. Falces, E. Quintana, J. Llopis, J. Ambrosioni, F. Marco, B. Vidal, A. Perissinotti, J.M. Tolosana, E. Sandoval, A. Moreno, J.M. Miró*

00313 **Epidemiology, clinical characteristics and outcome of 187 patients with infective endocarditis from 2009 to 2021 at two university hospitals, in Rio de Janeiro, Brazil**
P. Damasco (Rio de Janeiro, Brazil), L. Sousa, V. Solórzano, N. Rodrigues, A. Siebra, H. Coutinho, R. Leão, E. Lemos, C. Fortes*

00314 **Outpatient parenteral antimicrobial therapy (OPAT) for infective endocarditis: convenient and feasible**
L.E. Lopez-Cortés (Seville, Spain), R. Luque-Márquez, L. Hidalgo-Herrera, M.D. Navarro-Amuedo, J. Praena-Segovia, M.V. Gil-Navarro, A. Alarcón-Gonzalez*

00315 **Influence of the antithrombotic therapy in the prognosis of infective endocarditis**
J.T. Solera (Toronto, Canada), L. Domínguez Pérez, P. Muñoz, M. Martínez-Sellés, A. De Alarcón, C. Rico, L. García, M.Á. Goenaga, J. Goikoetxea, R. Rodríguez, J. De La Torre, D. Escribano, L. Boix, L. Castelo, F. López Medrano*

00316 **Infective endocarditis and cardiovascular outcomes after transcatheter and surgical aortic valve replacement: a population-based cohort study**
M. Purtak (Aarau, Switzerland), A. Kutz*, A. Conen**

00317 **Risk factors for Gram-negative infection of cardiovascular implantable electronic devices: retrospective multi-centre study, CarDINe study**
R. Pascale (Bologna, Italy), A.T. Aslan, A. Maccaro, G. Massaro, A. Toschi, D. Fabbricatore, T. De Potter, M. Ripa, P. Scarpellini, A. Karruli, E. Durante-Mangoni, K. Akinosoglou, G. Leventopulos, M. Papadimitriou-Olivgeris, G. Domenichini, E.E. Özcan, O.E. Turan, M. Yilmaz, M. Sahin, M.C. Isik, B. Kayaaslan, Y.A. Bilir, S. Iacopino, F. Placentino, M. Akova, I. Diemberger, P. Viale, M. Giannella*

OS076 **08:30 - 10:30** **Hall K**
2-Hour Oral Session

Endocarditis, mice and men

Chairs *Xavier Duval (Paris, France)*
José M. Miro (Barcelona, Spain)

00318 **Systemic embolism in infective endocarditis**
J. Constán (Granada, Spain), C. López-Robles, M.C. García, C. Fernández-Roldán, R. Javier*

00319 **Risk of infective endocarditis associated with transcatheter aortic valve implantation versus surgical aortic valve replacement: a propensity score-based analysis on a prospective cohort**
J. Calderon Parra (Majadahonda, Spain), J.E. De Villarreal-Soto, J.F. Oteo-Domínguez, C. Arellano-Serrano, M. Mateos-Seirul, D. Martínez-López, L. Dorado, E.C. Ríos-Rosados, A. Ramos-Martínez, A. Forteza-Gil*

OS077 **08:30 - 09:30** **Hall D**
1-Hour Case Session

Challenges associated with *Capnocytophaga* infections

Chair *Els Broens (Utrecht, Netherlands)*

00320 **Same pathogen, different outcome in immunocompetent patients: *Capnocytophaga canimorsus*; report of two cases**
A. Perez-Ugarte (Barcelona, Spain), S. Levy-Blitchtein, P. Salmeron, M. Belsol, P.S. Corona, D. Rodríguez-Pardo, N. Fernández-Hidalgo, C. Amat, M. Lung*

00321 ***Capnocytophaga canimorsus* meningitis: a nationwide population-based case series**
L. Duerlund (Aalborg, Denmark), H. Nielsen, J. Bodilsen*

00322 ***Capnocytophaga canimorsus:* not always the dog is the man´s best friend**
D. Fernández Vecilla (Bilbao, Spain), I. Angulo López, F.E. Calvo Muro, C. Aspichueta Vivanco, F. Renzi, M.E. Pereda Martínez, J. Roselló Soria, J.L. Díaz De Tuesta Del Arco*

00323 ***Capnocytophaga canimorsus* multifocal mycotic aneurysms in an immunocompetent adult**
C. Sun (Adelaide, Australia), A. Fitzpatrick, E. Tucker*

00324 **Lethal Waterhouse-Friderichsen syndrome caused by *Capnocytophaga canimorsus* in an asplenic patient**
F. Schuler (Münster, Germany), J.S. Padberg, C. Hullermann, P. Kümpers, J. Lepper, M. Schulte, A. Uekötter, F. Schaumburg, C.B. Kahl*

VW078 **08:30 - 09:30** **Arena 2**
Virtual Walk Through

Multiple drug-resistant bacteria and COVID-19: a double whammy

Moderator *Gian Maria Rossolini (Florence, Italy)*
Reviewer *Sarah Tschudin Sutter (Basel, Switzerland)*

VW079 **09:30 - 10:30** **Arena 1**
Virtual Walk Through

Staphylococcus aureus, a long way to the top

Moderator *Barbara C. Kahl (Münster, Germany)*
Reviewer *Serap Simsek Yavuz (Erenkoy, Istanbul, Turkey)*

PH

KN080 **11:00 - 12:00** **Hall A**
Keynote lecture



Dealing with the complexity of pandemics: the future is now
Chairs
Marion Koopmans (Rotterdam, Netherlands)
Jacob Moran-Gilad (Be'er Sheva, Israel)

K0325 11:00
Chikwe Ihekweazu (Berlin, Germany)

Dr Chikwe Ihekweazu is the Assistant Director General at WHO for Surveillance and Health Emergency Intelligence and leads the WHO Hub for Pandemic and Epidemic Intelligence, based in Berlin, Germany. Previously, Dr Ihekweazu was the first Director General of the Nigeria Centre for Disease Control (NCDC), which he led July 2016 - October 2021, building it from a small unit to a leading public health agency in Africa. He acted as Interim Director of the West Africa Regional Centre for Surveillance and Disease Control through 2017. He trained as an infectious disease epidemiologist and has over 25 years' experience working in senior public health and leadership positions in national public health institutes including NCDC, South African National Institute for Communicable Diseases, the UK's Health Protection Agency, and Germany's Robert Koch Institute. Dr Ihekweazu has led several short-term engagements for WHO, mainly building surveillance systems and responding to major infectious disease outbreaks. He was part of the first WHO COVID-19 international mission to China. Dr Ihekweazu is a graduate of the College of Medicine, University of Nigeria and has a Master's in Public Health from the Heinrich-Heine University, Dusseldorf, Germany. In 2003, he was awarded a Fellowship for the European Programme for Intervention Epidemiology Training and subsequently completed his Public Health specialisation in the UK. He has over one hundred publications in medical peer review journals, mostly focused on the epidemiology of infectious diseases. Dr Ihekweazu is on the board of several NGOs; he was also a TED Fellow and co-founded and delivered the TEDxEuston event from 2009 to 2019.

Fireplace Session 24 April, **12:30 - 13:30**

ID

SY081 **11:00 - 12:00** **Hall C**
Symposium

Hepatitis E: an update

Chairs *Gülsen Özkaya Sahin (Lund, Sweden)*
Zeinab Said (Cairo, Egypt)

S0326 **11:00** **Transfusion-associated fulminant HEV infection**
Heli Harvala (London, United Kingdom)

S0327 **11:30** **Prospects for an HEV vaccine**
Susanne Gjeruldsen Dudman (Oslo, Norway)

Co-organised with: ESCMID Study Group for Viral Hepatitis (ESGVH)

ID

SY082 **11:00 - 12:00** **Hall E**
Symposium

Year in Infectious Diseases

Chairs *Graeme Ayton Meintjes (Cape Town, South Africa)*
Joanne M Langley (Halifax, Canada)

S0328 **11:00** *Synne Jenum (Oslo, Norway)*

S0329 **11:30** *Elena Carrara (Verona, Italy)*

CM

SY083 **11:00 - 12:00** **Hall F**
Symposium

Fighting biofilm with non-traditional antibacterials

Chairs *Ran Nir-Paz (Jerusalem, Israel)*
Zuzanna Drulis-Kawa (Wroclaw, Poland)

S0330 **11:00** **Antisense therapy against biofilms**
Nuno Azevedo (Porto, Portugal)

S0331 **11:30** **Phage-inspired leads for antibiotics**
Rob Lavigne (Leuven, Belgium)

Co-organised with: ESCMID Study Group for Non-traditional Antibacterial Therapy (ESGNTA), ESCMID Study Group for Antimicrobial Resistance Surveillance (ESGARS)

ID

SY084 **11:00 - 12:00** **Hall I**
Symposium

Combination therapies: from models to patients

Chairs *Alexia Chauzy (Poitiers, France)*
Yunsong Yu (Hangzhou, China)

S0332 **11:00** **Favourable combination therapies evidence from pre-clinical studies**
Thomas Tängdén (Uppsala, Sweden)

S0333 **11:30** **Combination therapies in clinical trials: what is the evidence?**
Dafna Yahav (Petah-Tikva, Israel)

CM

SY085 **11:00 - 12:00** **Hall N**
Symposium

Updates on antimicrobial susceptibility testing of mycobacteria

Chairs *Florian Maurer (Borstel, Germany)*
Thomas Schön (Kalmar, Sweden)

S0334 **11:00** **Updates and open questions on the recently revised WHO critical concentrations for antimicrobial susceptibility testing of *Mycobacterium tuberculosis* complex**
Claudio Köser (Cambridge, United Kingdom)

S0335 **11:30** **The EUCAST approach for drug susceptibility testing of mycobacteria: past, present, future**
Emmanuelle Cambau (Paris, France)

Co-organised with: ESCMID Study Group for Mycobacterial Infections (ESGMYC), EUCAST Subcommittee on Antimycobacterial Susceptibility Testing (EUCAST-AMST)

OS086 **11:00 - 12:00** **Hall B**
1-Hour Oral Session

Rapid detection of emerging SARS-CoV-2 variants

Chairs *Simona Ruta (Bucharest, Romania)*
Anja Šterbenc (Ljubljana, Slovenia)

O0336 **Comparative analysis of five multiplex real-time RT-qPCR assays in the screening of SARS-CoV-2 variants**
I. Giberti (Genoa, Italy), V. De Pace, B. Bruzzone, A. Orsi, V. Ricucci, A. Domnich, G. Guarona, N. Randazzo, F. Stefanelli, E. Battolla, P.A. Dusi, F. Lillo, G. Icardi*

O0337 **Early detection of SARS-CoV-2 variants through the application of SNP based genotyping in a national surveillance programme**
S. Choudhry (London, United Kingdom), M. Edmunds, W. Sopwith, H. Vansteenhouse, M. Wigglesworth, J.A. O'hare, J. Turner, M.A. Amphlett, M.L. Smith, J. Cogdale, J. Ellis, A. Lackenby, K. Mcclelland, T. Rowland, K. Rajput, P. Jacobs, J. Feenstra, A.F. Dominiczak, M. Zambon*

O0338 **Clinical evaluation of commercial SARS-CoV-2 variant assays**
A. De Salazar (Granada, Spain), A. Fuentes-López, L. Viñuela, N. Chueca, F. García*

O0339 **Identification of SARS-CoV-2 lineage and mutations with a rapid SARS-CoV-2 genotyping assay**
C. Lee (Singapore, Singapore), I. Ng, B. Han, F. Kadir, A. Aizin, H. Suhardi, M. Aye, A.W. Kyaw, P. Ariyaratne, W.K. Lye, R. Luo*

O0340 **A metagenomics workflow for SARS-CoV-2 identification, co-pathogen detection, and overall metagenome diversity in clinical isolates**
D. Castañeda-Mogollón (Calgary, Canada), C. Kamaliddin, L. Oberding, Y. Liu, M.A.N. Mohon, F. Rehan, F. Khan, D. Pillai*

OS087 **11:00 - 12:00** **Hall G**

1-Hour Oral Session

UTI: from mild to complicated, from diagnosis to treatment

Chairs *Marco Falcone (Pisa, Italy)*
Cees Van Nieuwkoop (The Hague, Netherlands)

00341 **Use of urinary dip sticks in hospital care: a population-based cohort study**
W. Rannva (Aalborg, Denmark), R. Winther, L.H. Kristensen, H. Nielsen, J. Bodilsen*

00342 **Effectiveness and safety of intravenous fosfomycin in complicated urinary tract infection in real-life conditions: preliminary results from a matched-cohort study (FOSFO-MIC)**
E. Moreno-Mellado (Seville, Spain), E. León Jiménez, C. Garrigós, S. De La Rosa-Riestra, J. Liró Armenteros, J.L. Rodríguez-Ochoa, E.L.I.S.A. Asensio Gallego, M. Akova, C.D. Zeynep, A. Tarik Aslan, D. Vinuesa, E. Moral Escudero, N. Chacón Mora, Á. Cano, Á. Pascual Hernández, J. Rodríguez-Baño, F. Docobo Pérez, B. Gutiérrez-Gutiérrez*

00343 **Effectiveness at day 5 of antimicrobial treatment for uncomplicated febrile urinary tract infection in children between 3 months to 18 years old, pilot study PEDIU5**
A. Zeggay (Besançon, France), A. Ladaurade, A. Potron, A.L. Parmentier, G. Thiriez, R. Anxionnat*

00344 **Bacterial genome-wide association study identifies papGII to be associated with invasive uropathogenic *E. coli* infections**
A. Cuénod (Basel, Switzerland), J. Agnetti, H. Seth-Smith, T. Roloff, S. Tschudin-Sutter, S. Bassetti, N.R. Thomson, A. Egli*

00345 **The comparative efficacy of various oral therapeutics to treat mild urinary tract infections, which are managed in the community, caused by extended-spectrum beta-lactamase producing Enterobacterales (ESBL)**
D. Marchaim (Be'er Ya'akov, Israel), E. Levy, S. Zilberman-Itskovich, I. Levi, M. Iflah, K. Amity, R. Finkenberg*

OS088 **11:00 - 12:00** **Hall H**

1-Hour Oral Session

Resistance markers in sexually transmitted bacteria

Chairs *Benjamin Bluemel (Solna, Sweden)*
Angelika Stary (Vienna, Austria)

00346 **Emergence of extended-spectrum beta-lactamases producing *Shigella sonnei* among men who have sex with men in Barcelona**
A. Moreno-Mingorance (Barcelona, Spain), V. Rodriguez-Garrido, L. Goterris, Y. Hoyos-Mallecot, M.J. Barberà, M. Alberny, E. Sulleiro, A. Mir-Cros, J. Roca-Grande, T. Cornejo-Sánchez, B. Viñado, T. Pumarola, M.N. Larrosa, J.J. González-López*

00347 ***N. gonorrhoeae* azithromycin resistance: the push and pull of evolutionary forces**
P. Campbell (Oslo, Norway), L.M. Brendefur Corwin, J.V. Bjørnholt, A.O. Olsen, T.M. Leegaard*

00348 **Fluoroquinolone resistance-associated mutations in *Mycoplasma genitalium* among men with urethritis and other clients of two Sexual Health Centres in the Netherlands**
J. Braam (Amsterdam, Netherlands), H.C.A. Zondag, S.M. Bruisten, H.J.C. De Vries, C.E. Vergunst, M.F. Schim Van Der Loeff, A.P. Van Dam*

00349 **The *Neisseria gonorrhoeae* accessory genome and its association with the core genome and antimicrobial resistance**
J. De Korne-Elenbaas (Amsterdam, Netherlands), S.M. Bruisten, A.P. Van Dam, M.C.J. Maiden, O.B. Harrison*

00350 **Distinct *Mycoplasma genitalium* transmission networks among women and PrEP users in France**
J. Guiraud (Bordeaux, France), M. Helary, C. Le Roy, S. Pereyre, C. Bébéar*

OS089 **11:00 - 12:00** **Hall Q**

1-Hour Oral Session

Pathophysiology and prognosis in COVID-19 infection

Chairs *Chrysanthi Skevaki (Marburg, Germany)*
Snjezana Zidovec Lepej (Zagreb, Croatia)

00351 **Biological and clinical significance of natural circulating and airway neutralising antibodies to IFN-I in COVID-19 patients**
F. Frasca (Rome, Italy), M. Scordio, L. Sorrentino, M. Fracella, G. Oliveto, A. Viscido, C. Bitossi, A. D'auria, G. Bugani, L. Santinelli, A. Pierangeli, L. Celani, G. Ceccarelli, C.M. Mastroianni, G. D'ettorre, G. Antonelli, C. Scagnolari*

00352 **High levels of IL-6 and SARS-CoV-2 viral load and low expression of CCL5 in the upper respiratory tract are associated with severe COVID-19**
F. Pérez-García (Majadahonda, Spain), M. Martín-Vicente, R.L. Rojas-García, L. Castilla-García, M.J. Muñoz-Gómez, I. Hervás Fernández, V. González Ventosa, E.J. Vidal-Alcántara, J. Cuadros-González, M.Á. Jiménez-Sousa, A. Fernández-Rodríguez, J.F. Bermejo-Martín, S. Resino, I. Martínez*

00353 **Evaluation of neurofilament light chain in cerebrospinal fluid and plasma samples of COVID-19 patients with neurological symptoms**
M.A. Zingaropoli (Rome, Italy), M. Iannetta, L. Piermatteo, P. Pasculli, L. Mazzuti, R. Scutari, L. Onori, L. Campogiani, G. Ferraguti, G. Antonelli, M. Andreoni, C.M. Mastroianni, O. Turriziani, F. Ceccherini-Silberstein, L. Sarmati, M.R. Ciardi*

00354 **COVID-19 alters oral microbiome in closed community on a cruise ship**
K. Ota (Nagasaki, Japan), D. Sasaki, F. Mitsumoto-Kaseida, K. Sakamoto, K. Kosai, H. Hasegawa, K. Yamamoto, K. Izumikawa, H. Mukae, K. Yanagihara*

00355 **Association of vitamin D with severity and outcome of COVID-19: clinical and experimental evidence**
E. Giamarellos-Bourboulis (Athens, Greece), G. Renieris, G. Kassianidis, G. Damoraki, D.I. Droggiti, T. Gkavogianni, P. Koufargyris, K. Katrini*

OS090 **11:00 - 12:00** **Hall D**
1-Hour Case Session

Unusual fungal infections from around the globe

Chair *Joseph Meletiadis (Athens, Greece)*

00356 **Adjunctive imiquimod for chromoblastomycosis: lending innate immunity a helping hand**
C. Logan (London, United Kingdom), S. Krishna, N. Fox, M. Singh, K. Gordon, D. Macallan, T. Bicanic*

00357 **Subcutaneous mycoses due to *Emergomyces pasteurianus*: the first case report in Thailand**
L. Srikham (Bangkok, Thailand), A. Chindamporn, R. Plongla*

00358 **Invasive cerebral aspergillosis in non-neutropenic patients: a case series from western India**
D. Kumar (Jodhpur, India), S. Samantaray, G.K. Bohra, V. Jain, S. Tiwari, D.S. Meena, N. Midha*

00359 **Subcutaneous hyalohyphomycosis caused by *Fusarium solani* successfully treated with surgical removal in immunocompetent host**
M. Harnphadungkit (Bangkok, Thailand), P. Phuensan*

00360 **Mycobiome analysis reveals high fungal richness in lungs of acute respiratory distress syndrome after septic tank incident**
J. Kehrmann (Essen, Germany), H.L. Verhasselt, M. Kudla, F. Herbstreit, S. Weidener, F. Reckinger, R. Scholtysik, J. Buer*

OF091 **11:00 - 12:00** **Hall K**
1-Hour Mini-oral Flash Session

New insights into pathogens virulence: human and microbial factors

Chairs *Susanne Haeussler (Braunschweig, Germany)*
Kimberly Kline (Singapore, Singapore)

00361 **Impact of peptidoglycan amidation on cell surface properties and biofilm formation in *Staphylococcus aureus***
G. Cavaco (Caparica, Portugal), B. Gonçalves, I. Grilo, H. De Lencastre, M. Miragaia, R. Sobral*

00362 **CD6 deficiency impacts early immune response to bacterial sepsis**
C. Català (Barcelona, Spain), M. Velasco-De Andrés, A. Leyton-Pereira, S. Casadó-Llombart, M. Martinez-Florensa, M. Saéz-Moya, R. Gutiérrez-Cózar, J. Garcia-Luna, F. Aranda, M. Consugra-Fernández, G. Mourglia-Ettlin, P. Engel, F. Lozano*

00363 **Identification of novel small non-coding RNAs involved in biofilm and antibiotic resistance**
V. Pobre (Oeiras, Portugal), B. Carvalho, C. Arraiano*

00364 **Peptidoglycan recycling enzymes AmpD and AnmK contribute to biofilm formation and twitching motility in *A. baumannii***
A. Tajuelo (Majadahonda, Spain), M. Lopez-Siles, M.C. Terrón, M. Sachse, D. Luque, M.J. Mcconnell*

00365 **Biocides contribute to antibiotic resistance spread by increase functional eDNA release from biofilms**
O. Moshynets (Kiev, Ukraine), T. Baranovskyi, O. Iungin, N. Kysil, L. Metelytsia, I. Pokholenko, V. Potochilova, G. Potters, K. Rudnieva, S. Rymar, I. Semenyuta, A. Spiers, O. Tarasyuk, S. Rogalsky*

00366 **The acquisition of additional feedback loops optimises and speeds up the response of quorum sensing**
M. Fondi (Florence, Italy), F. Di Patti, E. Perrin*

00367 **Differential biofilm formation capacity and evolution in *Candida glabrata* clinical isolates: a genomics view**
I. Costa (Lisbon, Portugal), P. Pais, M. Zolotareva, M. Cavalheiro, M. Galocha, R. Viana, M. Cacho Teixeira*

00368 **Glycopeptidolipid (GPL) defects do not affect survival of rough *Mycobacterium abscessus* isolates on fomites and in chlorhexidine, as compared to their isogenic smooth counterparts**
M. Meir (Haifa, Israel), D. Barkan*

00369 **Catecholamine neurotransmitters are able to be used by *Pseudomonas aeruginosa* cells to access iron, a key nutrient**
I. Schalk (Illkirch, France), Q. Perraud, S. Fritsch*

OF092 **11:00 - 12:00** **Hall L**
1-Hour Mini-oral Flash Session

Pathogenesis of fungal infections: the host and pathogen point of view

Chairs *Elisa Borghi (Milan, Italy)*
Mihai Mares (Iasi, Romania)

00370 ***Caenorhabditis elegans* as a model for the study of dermatophyte infection and evaluation of 2-hydroxychalcone mediated by photodynamic therapy toxicity**
M.J.S. Mendes-Giannini (Araraquara, Brazil), N.M.B. Bila, C.O.V. Vaso, L.R. De Assis, L.O. Regasini, C.R. Fontana, A.F.A. Ana Marisa, C.O. Caroline Barcelos*

00371 **Myeloid immunity-driven gene expression profiling in bronchoalveolar lavage fluid of influenza- and COVID-19-associated pulmonary aspergillosis**
S. Feys (Leuven, Belgium), C. Jacobs, L. Vanderbeke, L. Seldeslachts, M.R. Starick, K. Thevissen, Y. Debaveye, G. Hermans, P. Meersseman, K. Lagrou, A. Carvalho, J. Van Weyenbergh, J. Wauters*

00372 ***Candida albicans*** **expresses an integrin-like adhesin that binds to the endothelium and triggers vascular disruption through a VE-cadherin signalling cascade**
D. Nader (Dublin, Ireland), G. Curley, S. Kerrigan*

00373 **Intestinal mycobiome compositional shifts and impaired Th17 signalling are associated with NAFLD severity**
N. Thielemann (Würzburg, Germany), S. Leal Siliceo, R. Martin, M. Herz, M. Rau, H. Hermanns, A. Geier, G. Panagiotou, O. Kurzai*

00374 **Microbial factors involved in the pathogenesis of vulvovaginal candidiasis: from carrier state to recurrent disease**
D. Shasha (Tel Aviv, Israel), M. Elbaz, N. Mizrahi, A. Novikov, A. Lev-Sagie, R. Ben-Ami*

00375 **Overcome double trouble: baloxavir marboxil suppresses influenza thereby mitigating secondary invasive pulmonary aspergillosis**
L. Seldeslachts (Leuven, Belgium), C. Jacobs, B. Tielemans, E. Vanhoffelen, L. Van Der Sloten, S. Humblet-Baron, L. Naesens, K. Lagrou, E. Verbeken, J. Wauters, G. Vande Velde*

00376 **Blockade of the PD-1/PD-L1 immune checkpoint pathway enhances host defense against Mucorales and improves outcomes in a murine model of invasive pulmonary mucormycosis**
S. Wurster (Houston, United States), N.D. Albert, U. Bharadwaj, M.M. Kasembeli, D.P. Kontoyiannis*

00377 **Unraveling host-pathogen interactions upon *Candida auris* infection: fungal behaviour and immune response in *Galleria mellonella***
V. Garcia-Bustos (Valencia, Spain), J. Peman, A.C. Ruiz-Gaitan, M.D. Cabanero-Navalon, A. Cabanilles-Boronat, L. Marcilla-Barreda, M. Fernandez-Calduch, I.A. Sigona-Giangreco, M. Salavert, M.Á. Tormo, A. Ruiz-Sauri*

00378 **Gastrointestinal tract *Candida* spp. colonisation is mostly monoclonal: results derived from an intra-patient pilot study**
A. Mesquida (Madrid, Spain), T. Vicente, P. Muñoz, J. Guinea, P. Escribano*

OF093 **11:00 - 12:00** **Hall M**
1-Hour Mini-oral Flash Session

COVID-19 vaccine immunogenicity and effectiveness in the immune compromised host

Chairs *Murat Akova (Ankara, Turkey)*
Marco Safadi (São Paulo, Brazil)

00379 **SARS-CoV-2 vaccine responses in patients with conditions leading to diminished immune capacity: the OCTAVE and OCTAVE-DUO trials**
T. De Silva (Sheffield, United Kingdom)*

00380 **Humoral and T cell specific immune responses to SARS-CoV-2 mRNA vaccination in patients with multiple sclerosis using different disease-modifying therapies**
A. Aiello (Rome, Italy), C. Tortorella, C. Gasperini, C. Agrati, C. Castilletti, S. Ruggieri, S. Meschi, G. Matusali, F. Colavita, C. Farroni, G. Cuzzi, E. Cimini, E. Tartaglia, V. Vanini, L. Prosperini, S. Haggiag, S. Galgani, M.E. Quartuccio, A. Salmi, F. Repele, A.M.G. Altera, F. Cristofanelli, A. D'abramo, N. Bevilacqua, A. Corpolongo, V. Puro, F. Vaia, M.R. Capobianchi, G. Ippolito, E. Nicastri, D. Goletti*

00381 **Evaluation of the B and T cell response in patients with rheumatoid arthritis at one and six months following SARS-CoV-2 mRNA vaccination**
C. Farroni (Rome, Italy), A. Picchianti-Diamanti, A. Aiello, B. Laganà, C. Agrati, C. Castilletti, S. Meschi, D. Lapa, S. Najafi Fard, G. Cuzzi, E. Cimini, G. Grassi, V. Vanini, A. Salmi, F. Repele, A.M.G. Altera, V. Puro, E. Nicastri, D. Goletti*

00382 **Torquetenovirus viral load is predictive of SARS-CoV-2 vaccine response in lung transplant recipients**
F. Gallais (Strasbourg, France), M. Solis, B. Renaud-Picard, A. Velay, M.J. Wendling, S. Caillard, R. Kessler, S. Fafi-Kremer*

00383 **SARS-CoV-2 serological data and cellular response of patients with HIV during pre- and post-vaccination period in Tel Aviv Sourasky Medical Center**
T. Halperin (Tel Aviv, Israel), L. Tau, D. Turner, A. Adler, R. Marom, S. Ahsanov, I. Levi, N. Matus, G. Gerber, S. Lev, T. Freund, D. Hagin*

00384 **Analysis of post-vaccinal neutralising response against wild-type SARS-CoV-2 and Delta variant in haemodialysis patients and kidney recipients**
S. Alain (Limoges, France), F. Lamarche, S. Hantz, C. Danthu, J.P. Rerolle, F. Toure*

00385 **Comprehensive profiling of immune response to COVID-19 vaccination in patients with haematological malignancy**
B. Teh (Melbourne, Australia), O. Nguyen, C. Lim, S. Tennakoon, N. Saunders, L. Rowntree, L. Allen, B. Chua, L. Kedzierski, L. Chee, M. Anderson, J. Seymour, M. Slavin, C. Tam, K. Kedzierska*

00386 **Poor humoral immunogenicity to SARS-CoV-2 vaccination in people living with HIV (PLWH) with low CD4 count**
A. Antinori (Rome, Italy), A. Cozzi-Lepri, A. Vergori, A. Tavelli, L. Marconi, S. Cicalini, A.M. Azzini, A. Sartor, A. Rodano', S. Meschi, C. Agrati, F.M. Fusco, E. Righi, F. Abrizzani, G. Marchetti, E. Girardi, P. Viale, M. Giannella, E. Tacconelli, A. D'arminio Monforte*

00387 **Response to SARS-CoV-2 vaccination in patients with antibody deficiency disorders**
C. Bracke-Manzanares (Badalona, Spain), E. Ainsua-Enrich, N. Pedreño, M. Rodríguez De La Concepción, C. Ávila-Nieto, E. Pradenas, S. Marfil, R. Toledo, M. Font, C. Miranda, S. González, J. G. Prado, B. Mothe, C. Brander, N. Izquierdo-Useros, J. Vergara-Alert, J. Segalés, M. Massanella, R.M. Benítez, A. Romero, D. Molina-Morant, J. Blanco, B. Clotet, L. Mateu, J. Carrillo, M.L. Pedro-Botet*

OF094 11:00 - 12:00 Hall O

1-Hour Mini-oral Flash Session

New faces in the camp of AMR pathogens

Chairs *TBA*
Cecile Bebear (Bordeaux, France)

00387A **Azithromycin resistance in *Escherichia coli* and *Salmonella* from food-producing animals and meat in Europe**
M. Ivanova (Kongens Lyngby, Denmark), A. Ovsepian, P. Leekitcharoenphon, A.M. Seyfarth, H. Mordhorst, S. Koeberl-Jelovcan, M. Milanov, G. Kompes, M. Liapi, T. Černý, C. Thougaard Vester, A. Perrin-Guyomard, J. Hammerl, M. Grobbel, E. Valkanou, S. Jánosi, R. Slowey, P. Alba, V. Carfora, J. Avsejenko, A. Ceslova, A. Pereckiene, S. Sceponaviciene, D. Claude, R. Zerafa, K. Veldman, C. Boland, C. Garcia-Graells, P. Butaye, P. Wattiau, M. Zając, A. Ana, L. Clemente, M. Vaduva Angela, L.M. Romascu, N.M. Milita, A. Mojžišová, I. Zdovc, M.J. Zamora Escribano, C. De Frutos Escobar, K. Pedersen, G. Overesch, C. Teale, A.M.V. Brown, G.H. Loneragan, B. Guerra, P.A. Beloeil, R.S. Hendriksen, J.S. Kjeldgaard, V. Bortolaia*

00388 ***Legionella pneumophila* antibiotic resistance: from myth to reality**
S. Jarraud (Lyon, France), C. Ginevra, L. Beraud, H. Bentayeb, C. Allam, J. Chastang, M. Ibranosyan, V. Decroix, G. Descours*

00389 **Antibiotic resistance prevalence in *Helicobacter pylori* in gastric biopsies**
A. Bellés-Bellés (Lleida, Spain), S. Mormeneo Bayo, D. Bayas Pastor, R. Monclus Millanes, S. Chordi Barrufet, M.L. Cruellas Tremps, A. Jover Saenz, M. Planella De Rubinat, M. Garcia Gonzalez*

00390 **Antimicrobial susceptibility testing: the intriguing scenario in anerobes clinical isolates**
M. Casarotto (Verona, Italy), M. Tartaglia, D. Gibellini, A. Mazzariol*

00391 **National survey of antimicrobial resistance amongst clinical *Bacteroides* and *Prevotella* isolates in The Netherlands**
K. Boiten (Groningen, Netherlands), D. Notermans, R. Rentenaar, J. Van Prehn, L. Bode, I. Maat, W. Van Der Zwet, N. Arents, T. Siebers, S. De Greeff, A. Hendrickx, E. Kuijper, L. Veloo*

00392 **Genome analysis of macrolide-resistant *Haemophilus influenzae* and *Haemophilus parainfluenzae* strains isolated at Bellvitge University Hospital**
I. Cadenas Jiménez (Barcelona, Spain), A. Carrera Salinas, A. González Díaz, L. Saiz Escobedo, D.A. Vázquez Sánchez, S. Calvo Silveria, D. Berbel, F. Tubau, C. Ardanuy, S. Martí*

00393 **Alarming increase in antimicrobial resistance in *Helicobacter pylori* in the Netherlands, 2010-2019**
S. Woudt (Bilthoven, Netherlands), R. Veenendaal, A. Schoffelen, E. Kuijper*

00394 **Antibiotic resistance in *Haemophilus influenzae* isolates obtained from patients at outpatient departments in Germany, 2019/2020**
H. Claus (Würzburg, Germany), T.T. Lâm, E. Wohlfarth, U. Vogel, M. Kresken*

00395 **Population structure of carbapenemase-producing *Morganella* spp.**
R. Bonnin (Le Kremlin-Bicetre, France), E. Creton, A. Perrin, D. Girlich, A.B. Jousset, C. Emeraud, K. Hopkins, P. Bogaerts, N. Pfennigwerth, M. Gniadkowski, A. Hendrickx, K. Van Der Zwaluw, P. Apfalter, R. Hartl, V. Heringova, J. Hrabak, G. Larrouy-Maumus, E. Rocha, T. Naas, L. Dortet*

FO095 12:15 - 13:15 Arena 1

Open Forum

Is Twitter the new ID textbook?

Chair *Jose Ramon Pano-Pardo (Zaragoza, Spain)*

FO396 **RIP my mentions: science by social media in the age of disinformation**
Angela Rasmussen (Saskatoon, Canada)

FO397 **Is social media worth my time?**
Carlos Del Rio (Atlanta, United States)

FO398 **#IDTwitter: infectious diseases medicine in the age of social media**
Stone Neil (London, United Kingdom)

FO399 **Bugs, drugs, and social media: Twitter as a tool for advancing the field of infectious diseases**
Timothy Gauthier (Miami, United States)

FO095A 12:15 - 13:15 Arena 2

Open Forum

When science gets politicised; experiences from the COVID-19 pandemic

Chair *Ines Steffens (Solna, Sweden)*

FO399A **In the eye of the public: politicised science, the epidemiologists experience**
TBA

FO399B **In the eye of the public: politicised science, the microbiologists experience**
Marion Koopmans (Rotterdam, Netherlands)

Co-organised with: European Centre for Disease Prevention and Control (ECDC)

ECCMID Open Forum 2022

Sunday 24 April 2022

12:15 – 13:15 WEST

Arena 1

Is Twitter the new ID textbook?

Lisbon, Portugal
23–26 April 2022

32nd ECCMID

OPEN FORUM 2022

1-Hour Open Forum

Chair: **Jose Ramon Paño-Pardo,** Zaragoza, Spain

RIP my mentions: science by social media in the age of disinformation
Angela Rasmussen, Saskatoon, Canada
Is social media worth my time?
Carlos del Rio, Atlanta, United States
#IDTwitter: infectious diseases medicine in the age of social media
Neil Stone, London, United Kingdom
Bugs, drugs, and social media: Twitter as a tool for advancing the field of infectious diseases
Timothy Gauthier, Miami, United States



ESCMID
MANAGING INFECTIONS
PROMOTING SCIENCE

IC

KN096 **13:30 - 14:30** **Hall A**

Keynote scientific interview



Never let an outbreak go to waste: how COVID-19 has changed hospital epidemiology and infection prevention and control

Interviewer

Mary Horgan (Cork, Ireland)

K0400 13:30

Alison Helen Holmes (Berlin, Germany)

Alison Holmes is the Professor of Infectious Diseases and the Director of the NIHR Health Protection Research Unit in Healthcare Associated Infections and AMR and the Centre for Antimicrobial Optimisation (CAMO), at Imperial College London. She is also the current President of the International Society for Infectious Diseases. Prof. Holmes is an NIHR Senior Investigator and has a longstanding career in the NHS. She serves on WHO Expert groups related to antimicrobial use, AMR, infection prevention, sepsis, and COVID-19. She leads a large international, multidisciplinary infectious disease research programme, including collaborative programmes funded by NIHR, ESRC, UKRI and Wellcome Trust on the improved management and prevention of infections, particularly focusing on the optimising of antimicrobial use and addressing antimicrobial resistance through the integration of social sciences, the application of innovative approaches and technologies and the development of precision medicine.

Co-organised with: European Committee on Infection Control (EUCIC) Steering Committee

Fireplace Session 24 April, **15:00 - 16:00**

CM

SY097 **13:30 - 15:30** **Hall B**

Symposium

Impact of rapid diagnostics for community-acquired acute respiratory tract infections (CA-ARTI) on antibiotic stewardship

Chairs *Maurizio Sanguinetti (Rome, Italy)*
TBA

S0401 **13:30** **What is diagnostic stewardship and why should we care?**
Bhanu Sinha (Groningen, Netherlands)

S0402 **14:00** **Consensus about the use of rapid diagnostics for the management of CA-ARTI**
Eva Polverino (Barcelona, Spain)

S0403 **14:30** **Point-of-care testing and antibiotic prescribing for CA-ARTI in primary care during the COVID-19 pandemic**
Alike Van Der Velden (Utrecht, Netherlands)

S0404 **15:00** **Rapid diagnosis of CA-ARTI in the ambulatory care or in the emergency room: are there differences?**
Cristina Prat Aymerich (Utrecht, Netherlands)

Co-organised with: VALUE-Dx, European Respiratory Society (ERS)

PH

SY098 **13:30 - 15:30** **Hall E**

Symposium

Vaccinated or non-vaccinated: patients are not healthcare workers, and the flu is not COVID-19

Chairs *Walter Zingg (Zurich, Switzerland)*
Nasia Safdar (Madison, United States)

S0405 **13:30** **How vaccines help healthcare workers to stay safe**
Martin Kiernan (Ormskirk, United Kingdom)

S0406 **14:00** **COVID-19 vaccine revisited: how to handle unvaccinated, poorly vaccinated or immunosuppressed patients**
Hilary Humphreys (Dublin, Ireland)

S0407 **14:30** **The triangle of personal protective equipment, vaccination and screening make our hospitals safe**
Nico Tom Mutters (Bonn, Germany)

S0408 **15:00** **Protecting the immunocompromised healthcare worker**
Gabriel Birgand (Nantes, France)

Co-organised with: EUCIC Steering Committee

ID

SY099 **13:30 - 14:30** **Hall I**

Symposium

The changing epidemiology of West Nile fever virus in Europe

Chairs *Tamas Bakonyi (Solna, Sweden)*
TBA

S0409 **13:30** **Epidemiological trends West Nile virus in Western Europe**
Chantal B.E.M. Reusken (Bilthoven, Netherlands)

S0410 **14:00** **The causes and consequences of increasing West Nile virus activity in Europe**
Eleni Patsoula (Athens, Greece)

Co-organised with: ESCMID Study Group for Public Health Microbiology (ESGPHM)

ID

EW100 **13:30 - 15:30** **Hall C**

Educational Workshop

Subacute and chronic meningitis

Chairs *Matthijs Brouwer (Amsterdam, Netherlands)*
Emma Cecilia Wall (London, United Kingdom)

W0411 **13:30** **Infectious causes of chronic meningitis: diagnostic considerations and workup**
Bettina Pfausler (Innsbruck, Austria)

W0412 **14:00** **Non-infectious differential diagnosis in patients with subacute and chronic meningitis**
Uta Meyding-Lamadé (Frankfurt, Germany)

W0413 **14:30** **Post-Lyme disease syndrome: what is it and how to deal with it?**
Randi Eikeland (Kristiansand, Norway)

Co-organised with: The Collaborative on Fatigue Following Infection (COFFI), ESCMID Study Group for Infectious Diseases of the Brain (ESGIB)

CM

EW101 **13:30 - 15:30** **Hall F**

Educational Workshop

Don't get lost in translation: the use of preclinical PK/PD models in anti-infective drug development

Chairs *Cornelia Landersdorfer (Parkville, Australia)*
Markus Zeitlinger (Vienna, Austria)

W0414 **13:30** **The role of *in vitro* models**
Alasdair P. MacGowan (Bristol, United Kingdom)

W0415 **14:00** **The role of *in vivo* models**
William Couet (Poitiers, France)

W0416 **15:00** **The role of *in silico* models**
Elisabet Nielsen (Uppsala, Sweden)

Co-organised with: ESCMID PK/PD of Anti-Infectives Study Group (EPASG)

PH

EW102 **13:30 - 15:30** **Hall G**

Educational Workshop

How to use intervention and implementation research to mitigate AMR

Chairs *Bruno Gonzalez-Zorn (Madrid, Spain)*
Nandini Sreenivasan (Copenhagen, Denmark)

W0417 **13:30** **Intervention, operational and implementation research: key constructs**
Sabiha Essack (Durban, South Africa)

W0418 **14:00** **Developing an implementation research roadmap**
Raheelah Ahmad (London, United Kingdom), Alexandre Rabello Tenorio Da Costa (New York, United States)

Co-organised with: International Centre for Antimicrobial Resistance Solutions (ICARS)

OS103 **13:30 - 15:30** **Hall M**

2-Hour Oral Session

The Public Health response to COVID-19

Chairs *Debby Bogaert (Edinburgh, United Kingdom)*
David Fisman (Toronto, Canada)

O0419 **Genomic assessment of quarantine measures to prevent SARS-CoV-2 importation and transmission**
D. Aggarwal (Cambridge, United Kingdom), A.J. Page, U. Schaefer, G.M. Savva, R. Myers, E. Volz, N. Ellaby, S. Platt, N. Groves, E. Gallaghar, N.M. Tumelty, T. Le-Viet, G.J. Hughes, C. Chen, C. Turner, S. Logan, A. Harrison, S.J. Peacock, M. Chand, E.M. Harrison*

O0420 **Lockdown impact on mixing patterns and behaviour relevant to the spread of infection in France during the COVID-19 pandemic**
R. Millot (Poitiers, France), L. Opatowski, P. Beutels, N. Hens, B. Dervaux, G. Beraud*

O0421 **Impact of COVID-19 nationwide lockdowns on emergency hospitalisations due to chronic lower respiratory diseases: a national interrupted time series analysis for Ireland**
S. O' Regan (Dublin, Ireland), A. Mc Greal-Bellone, J. O' Connell, P. Carey, A. Heeney, J. Harte, O. Donnelly, K. Bennett, E. De Barra*

O0422 **Fake news or credible source? Assessing the quality of online resources informing the public about COVID-19 in two countries**
C. Turnbull (London, United Kingdom), J.K. Tan, L. Yamanouchi, J.Y. Tan, R. Som*

O0423 **Differences in diagnostic cycle threshold values of SARS-CoV-2 genes: a novel epidemiological tool to monitor variant prevalence**
A.E. Bordoy (Barcelona, Spain), V. Saludes, D. Panisello, G. Clarà, A. París, C. Casañ, M. Guerrero-Murillo, B. Rodríguez-Ponga, M. Noguera-Julian, F. Català-Moll, P. Armengol, M. Casadellà, M. Parera, L. Sumoy, B. Clotet, M. Giménez, I. Blanco, E. Martró, P.J. Cardona*

O0424 **Estimation of the impact of hospital-onset SARS-CoV-2 infections on length of stay in English hospitals using causal inference**
J. Stimson (London, United Kingdom), K. Pouwels, R. Hope, B. Cooper, A. Presanis, J. Robotham*

O0425 **Identifying targets for testing by machine learning**
Y. Asai (Tokyo, Japan), S. Tsuzuki*

O0426 **Despite the level of uncontrolled spread of COVID-19 in Brazil, the country of soccer, can entire seasons of professional players be carried out safely? Yes, we did!**
C. Starling (Belo Horizonte, Brazil), J. Pagura, A.D.C. Clovis, N. Roberto, W. Sergio, P. André, C. Sergio, P. Andreia, F. Sérgio, G. André, T. Edilson, C. Braulio*

00427 **Antimicrobials use estimation in 2020 from the SARIMA model in Japan**
A. Ono (Tokyo, Japan), R. Koizumi, S. Tsuzuki, Y. Asai, M. Ishikane, Y. Kusama, N. Ohmagari*

00428 **Impact of long-COVID on health-related quality of life in Japanese COVID-19 patients**
S. Tsuzuki (Antwerp, Belgium), Y. Miyazato, M. Terada, S. Morioka, N. Ohmagari, B. Philippe*

OS104 **13:30 - 14:30** **Hall D**
1-Hour Case Session
Challenging mycobacterial infections

Chair *Delane Shingadia (London, United Kingdom)*

00429 **Tuberculosis meningitis: a 30-year review**
F. Sánchez-Martínez (Barcelona, Spain), M.D.M. Arenas-Miras, S. Castañeda-Espinosa, N. Jové-Caballé, E. Carrió-Díez, H. Knobel, J.P. Horcajada*

00430 ***Mycobacterium haemophilum* in Singapore: a multi-centre descriptive case series**
J. Sim (Singapore, Singapore), C.M.D. Lai, E.P. Conceicao, J.X.J. Soh, T.T. Tan, C.C. Ang, C.F. Yung, S.T. Thio, B.K.W. Yeo, J.Y. Pan, S.X. Lee, S.Y. Tan, S. Sadarangani, L.H. Sng*

00431 **Nosocomial transmission of *Mycobacterium abscessus* in patients with COVID-19 admitted to an intensive care unit in Madrid**
A. Estévez (Madrid, Spain), V. Sampériz, M.J. Ruiz Serrano, M. Marín, M. Sancho, B. Moreno, A. Garrido, C. Mata, L. Perez-Lago, D. García De Viedma, B. Padilla, P. Muñoz*

00432 **Cutaneous tuberculosis verrucosa cutis presenting as a fungating mass on the foot: a case report**
A. Uy (Quezon City, Philippines), A. Masbang*

00433 **Clinical description, antimicrobial resistance, and treatment outcomes for patients with invasive *Mycobacterium chelonae* infection from one UK hospital: a 15-year retrospective case series**
J. Meiring (Sheffield, United Kingdom), A. Temple, S. Francis, H. Kaur, J. Snowden, D. Partridge*

OF105 **13:30 - 14:30** **Hall H**
1-Hour Mini-oral Flash Session
Epidemiology of parasites, here and there

Chairs *Anna Checkley (London, United Kingdom)*
Florence Robert-Gangneux (Rennes, France)

00433A **Parasites *(Blastocystis hominis, Dientamoeba fragilis, Cryptosporidium spp., Cyclospora cayetanensis, Entamoeba histolytica, Giardia lamblia)* laboratory diagnostic in Latvia 2019-2021**
K. Ventins (Riga, Latvia), O. Savicka, T. Bogurdovica, S. Nikisins*

00433B **A machine learning model for evaluating strongyloidiasis screening strategies in immigrant populations**
A. Rodríguez-Guardado (Oviedo, Spain), A. García-Pérez, J. Fernández-Martínez, J. Boga, E. De Andrés, L. Casado, J. Fernández, F. Vázquez, M. Rodríguez-Pérez*

00433C **Monitoring soil-transmitted helminth infections in treated and non-treated individuals over three years of community-wide mass drug administration within the Geshiyaro project in Ethiopia**
S. Santiago (London, United Kingdom), R. Maddren, L. Toby, K. Suprabhath, F. Ewnetu, C. Melkie, M. Hussein, W. Yonas, T. James, P. Anna, O. Alison, F. Kathryn, A. Ufaysa, M. Birhan, M. Zelalem, T. Geremew, S. Mihretab, R. Roy*

00434 **Occurrence of *Giardia duodenalis* and *Cryptosporidium* species, not-related to travel, in a country generally with a high hygienic standard**
G.N. Hartmeyer (Odense, Denmark)*

00435 **Higher than expected incidence of leishmaniasis in the city of Madrid (Spain): possible relationship to a close outbreak focus**
J. Alonso-Carrillo (Madrid, Spain), S. Castaño, M. Prieto, N. Valdeolivas, A. López-Alba, M. Fernández-Ruiz, R. San Juan, M. Lizasoain, A. Pérez De Ayala, J.M. Aguado, F. López-Medrano*

00436 **The first detection of *Leishmania infantum* parasite in *Forcipomyia* species**
L. Remadi (Monastir, Tunisia), H. Baba, D. Slama, D. Farjallah, H. Babba, N. Haouas*

00437 **Genomic epidemiology of *Cryptosporidium parvum* in Europe**
G. Bellinzona (Pavia, Italy), T. Nardi, M. Castelli, T. Autio, Y. Blanchard, R.M. Chalmers, R. Davidson, A. De Jong, T. Embom, J. Gomes, G. Karadjian, C. Klotz, P. Jokelainen, E. Östlund, J. Plutzer, L.J. Robertson, G. Robinson, A.R. Sannella, J. Sroka, C. Rune Stensvold, K. Troell, P. Vatta, D. Sassera, S.M. Cacciò*

00438 **Endemic lizards *Gallotia galloti* infected by invasive nematode *Angiostrongylus cantonensis* in Tenerife, Spain**
E. Izquierdo-Rodriguez (La Laguna, Spain), L. Anettová, P. Foronda, D. Modrý*

00439 **Pilot survey of cystic echinococcosis in Masaai livestock-keeping communities of northern Tanzania**
F. Tamarozzi (Negrar Di Valpolicella, Italy), T. Kibona, W. De Glanville, T. Mappi, E. Adonikamu, A. Salewi, K. Misso, V. Maro, A. Casulli, A. Santoro, F. Santolamazza, B. Mmbaga, C. Sarah*

OF106 **13:30 - 14:30** **Hall K**

1-Hour Mini-oral Flash Session

All about intracellular and rare bacteria

Chairs *Matilda Berkell (Antwerpen, Belgium)*
Gilbert Greub (Mollie-Margot, Switzerland)

00440 **"When old drugs learn new tricks": drug repurposing of thioridazine to treat *Salmonella* infections**
D. Alves Ferreira (Dublin, Ireland), C. Roma Rodrigues, P.V. Baptista, A. Fernandes, M. Martins*

00441 **Identification of *Streptomyces* spp. in a clinical sample: always a contamination? Results of a French national retrospective study**
E. Gras (Paris, France), E. Bergeron, M. Puges, M. Ducours, C. Leleux, L. Amoureux, B. Jean, I. Bendjelloul, F. Camelena, R. Chenouard, R. Mahieu, A. Toro, A. Lecoustumier, O. Lortholary, O. Lemenand, V. Rodriguez-Nava, D. Lebeaux*

00442 **The retropepsin-type protease APRc as a novel Ig-binding protein and moonlighting immune evasion factor of *Rickettsia***
I. Simões (Coimbra, Portugal), P. Curto, A. Barro, C. Almeida, R.S. Vieira-Pires*

00443 **Characterisation of truncated internalin A in *Listeria monocytogenes* clinical isolates within the surveillance of invasive listeriosis in Lombardy region, northern Italy**
M. Gori (Milan, Italy), C. Fappani, S. Piazza, G. Magagna, E. Spinelli, S. Bianchi, D. Colzani, G. Finazzi, A. Amendola, E. Tanzi*

00444 **Fluorescence *in situ* hybridisation for detecting *Coxiella burnetii* in tissue samples: not as golden as we hoped**
J.M. Weehuizen (Utrecht, Netherlands), S.B. Buijs, T.K. Jensen, A.I.M. Hoepelman, C.P. Bleeker-Rovers, P.C. Wever*

00445 **Next-generation sequencing of historic and contemporary strains of *Fusobacterium necrophorum* at the UK anaerobe reference unit: what does it reveal?**
M. Perry (Cardiff, United Kingdom), K. Vranckx, T. Morris*

00446 **Burden of Lyme disease (BOLD) study: a prospective active surveillance study in European endemic regions, interim results**
A. Loew-Baselli (Vienna, Austria), A. Pilz, J. Stark, L.R. Harper, J.S. Berglund, V. Cibik, J. Weimer, A. Moniuszko-Malinowska, L. Dybova, D. Zakova, B. Parslow, J. Edwards, K. Chauhan, S. Valluri, L. Jodar, B. Gessner, B. Elizabeth*

00447 **Implementation of *Campylobacter* laboratory surveillance using whole genome sequencing in the Netherlands**
M. Van Den Beld (Bilthoven, Netherlands), R. Pijnacker, O.E. Van Den Berg, K. Van Der Zwaluw, A. Hernandez Segura, E. Franz, T. Bosch*

00448 **Invasive *Aggregatibacter* species infections in a London teaching hospital over a 4-year period: a case series of 27 patients**
A. Bapat (London, United Kingdom), O. Lucey, M. Eckersley, S. Ranasinghe, J. Lambourne*

KN107 **14:45 - 15:45** **Hall A**

Keynote lecture



AI revolution in medicine
Chairs
Adrian Egli (Basel, Switzerland)
Vitali Sintchenko (Sydney, Australia)
K0449 14:45
Suchi Saria (Baltimore, United States)

Suchi Saria, PhD, is the Founder and CEO of Bayesian Health, the John C. Malone endowed chair and Associate Professor of Computer Science, Statistics and Health Policy, and the Director of the Machine Learning, AI and Healthcare Lab at Johns Hopkins University. Her research has pioneered the development of next generation diagnostic and treatment planning tools that use statistical machine learning methods to individualize care. She has written several of the seminal papers in the field of ML and its use for improving patient care and has given over 250 invited keynotes and talks to organizations including the NAM, NAS, and NIH. Dr. Saria has served as an advisor to several Fortune 500 companies and her work has been funded by leading organizations including the NIH, FDA, NSF, DARPA and CDC.

At Bayesian Health, Dr. Saria is operationalizing her decades of research in the field to make healthcare proactive by empowering physicians, nurses, and care team members with real-time data to save lives. Dr. Saria has been featured in Bloomberg News and PBS NOVA and she has won several awards for excellence in AI and care delivery, including IEEE's "AI's 10 to Watch", Sloan Fellow, MIT Tech Review's "35 Under 35", National Academy of Medicine's list of "Emerging Leaders in Health and Medicine", DARPA's List of Rising Stars, World Economic Forum's 100 Brilliant Minds Under 40, Rock Health's "Top 50 in Digital Health", The Armstrong Award for Excellence in Quality and Safety; Node. Health's Best in Class Digital Health Intervention Award; and Society of Critical Care Medicine's Annual Scientific Award.

Fireplace Session 24 April, **16:00 - 17:00**

PH

SY108 **14:45 - 15:45** **Hall H**

Symposium

Imported cutaneous leishmaniasis in Europe by the thousand: is it all the same?

Chairs *Sara Karlsson Sobirk (Lund, Sweden)*
Kristine Morch (Bergen, Norway)

S0450 **14:45** **Imported cutaneous leishmaniasis in migrants**
Özgür Kurt (Istanbul, Turkey)

S0451 **15:15** **Cutaneous leishmaniasis in South America**
Dalila Martinez (Lima, Peru)

Co-organised with: ESCMID Study Group for Clinical Parasitology (ESGCP)

ID

SY109 **14:45 - 15:45** **Hall J**
Symposium

The changing picture of childhood pneumonia

Chairs *David Goldblatt (London, United Kingdom)*
Catherine Satzke (Melbourne, Australia)

S0452 **14:45** **Impact of COVID-19 pandemic on epidemiology of childhood pneumonia**
Shabir Madhi (Randburg, South Africa)

S0453 **15:15** **Impact of the pandemic on childhood vaccination globally**
Kate O'Brien (Geneva, Switzerland)

OS110 **14:45 - 15:45** **Hall I**
1-Hour Oral Session

Elimination of HBV and HCV

Chairs *Arjan Harxhi (Tirana, Albania)*
Dorota Zarębska-Michaluk (Kielce, Poland)

00454 **Reduction of the occurrence of occult HBV infection in infants by increasing the dose of hepatitis B vaccine: a large prospective cohort study**
L. Yi (Beijing, China), X. Yingchun*

00455 **ScanVir: a new concept towards the end of hepatitis C in 2025 in France**
M.L. Debette-Gratien (Limoges, France), S. Alain, S. François, C. Rigaud, P. Carrier, C. Chevalier, B. Abraham, A.L. Burgevin, B. Denenes, L. Courat, J. Zattoni-Leroy, E. Caux-Nussbaum, P. Nubukpo, V. Loustaud-Ratti*

00456 **Impact of the COVID-19 pandemic on treatment access and follow-up of viral hepatitis patients**
N. Baykam (Çorum, Turkey), F. Eser, R. Güner, Y. Gürbüz, M. Akdoğan, Z. Bilgiç, N. Korkmaz, D. Arı, G. Şanlıdağ, Ş. Kesim Uçar, T. Düzenli, T. Yamazhan*

00457 **HCV micro-elimination in the hospital setting: the results of the HCV-free Caserta hospital project**
M. Pisaturo (Naples, Italy), V. Messina, L. Alessio, A. Russo, N. Coppola*

00458 **Impact of the COVID-19 epidemic on reported chronic hepatitis C in the Netherlands, 2019-2021**
E. Den Boogert (Bilthoven, Netherlands), P. Zantkuijl, I.K. Veldhuijzen, E. Op De Coul*

OS111 **14:45 - 15:45** **Hall D**
1-Hour Case Session

Management of orthopaedic infections

Chair *Marjan Wouthuyzen-Bakker (Groningen, Netherlands)*

00459 **Bacteriophage therapy: clinical experience in the management of eight patients with difficult-to-treat infections**
P. Morovic (Berlin, Germany), L. Ponce Benavente, T. Tkilaishvili, D. Margaryan, S. Karbysheva, P. Carsten, A. Trampuz*

00460 ***Tropheryma whipplei* spondylodiscitis: case report**
A. Ferrari (Padua, Italy), S. Lo Menzo, S. Gardin, F. Raumer, M. Trevenzoli, A. Cattelan*

00461 **First Italian case of successful personalised phage therapy in addition to antibiotic in the treatment of chronic hip prosthesis infection caused by *Pseudomonas aeruginosa***
N. Cesta (Rome, Italy), M. Pini, T. Mulas, E. Ippolito, J. Wagemans, L. Sarmati, R. Lavigne, A. Tavanti, M. Andreoni, M. Di Luca*

00462 **Persistent *Brucella Melitensis* bacteraemia due to bilateral prosthetic knee infection: a case report**
C. Aldieri (Cuneo, Italy), E. Borgogno, E. Monge, F. Sordella, R. Curetti, V. Del Bono*

00463 **A rare case of periprosthetic streptobacillosis: rapid identification via nanopore sequencing after inconclusive VITEK MS results**
R. Spott (Jena, Germany), B. Schleenvoigt, B. Edel, M.W. Pletz, C. Brandt*

OF112 **14:45 - 15:45** **Hall K**
1-Hour Mini-oral Flash Session

Update on epidemiology and resistance in *Staphylococcus aureus* and *Enterococcus*

Chairs *Sören G. Gatermann (Bochum, Germany)*
Margreet C. Vos (Rotterdam, Netherlands)

00464 **Antimicrobial resistance and genetic diversity of *Enterococcus* and *Staphylococcus* isolates from wastewater and environmental water samples from two South African provinces**
J. Makumbi (Pretoria, South Africa), M. Kock, S. Ogundare, A. Smith, G. Van Der Zel, M. Ehlers*

00465 ***Staphylococcus aureus* carriage variation in the nasotracheal cavities of storks from southern Spain, with a focus on the MSSA-CC398 clone**
I.N. Abdullahi (Logroño, Spain), G. Juárez-Fernández, D. Mínguez-Romero, P. Eguizábal, R. Fernández-Fernández, U. Hoffle, M. Zarazaga, C. Lozano, C. Torres*

00466 **Emergence of staphylococcal non-wild-type populations to biocides in a One Health perspective: are there reasons for concern?**
S.S. Costa (Lisbon, Portugal), C. Ferreira, C. Morais, P. Abrantes, C. Pomba, I. Couto*

00467 **Vancomycin-resistant *Enterococcus faecium* causing hospital infections in Porto, Portugal (2009-2020): a retrospective analysis**
A.C. Almeida-Santos (Porto, Portugal), B. Duarte, A.P. Pereira, M. Cabral, L.M. Silva, H. Ramos, A. Read, V. Alves, C. Novais, A.R. Freitas, L. Peixe*

00468 **Prevalence of *pvl*-positive methicillin-resistant *Staphylococcus aureus* (MRSA) isolated from imported, farmed fish at retail in Germany**
S. Maurischat (Berlin, Germany), S. Schaarschmidt, T. Lienen, M. Grobbel, B.A. Tenhagen, K. Alt*

O0469 **Transmission of methicillin-susceptible *Staphylococcus aureus* among healthcare workers, patients and the environment in a large acute hospital with a history of endemic methicillin-resistant *Staphylococcus aureus* (MRSA) under non-outbreak conditions investigated using whole genome sequencing**
P. Kinnevey (Dublin, Ireland), A. Kearney, M. Earls, T. Poovelikunnel, G. Brennan, A. Shore, H. Humphreys, D. Coleman*

O0470 **Fine-typing of the endemic vancomycin-resistant *Enterococcus faecium* ST117 clone from Germany**
K. Xanthopoulou (Cologne, Germany), F. Dyrkell, D. Arnellos, F.B.A.G. Erre, H. Seifert, P.G. Higgins*

O0471 **Genomic epidemiology and characterisation of penicillin-sensitive MSSA isolates from invasive bloodstream infections in China: an increasing prevalence and higher diversity in genetic typing be revealed**
W. Zhou (Hangzhou, China), Y. Jin, Y. Xiao*

O0472 **Linezolid-resistant VRE (*Enterococcus faecium*) from hospital patients in Germany, 2016-2020**
G. Werner (Wernigerode, Germany), C. Fleige, R. Weber, M. Fischer, J. Bender*

VW113 **14:45 - 15:45** **Arena 2**
Virtual Walk Through

Efficacy and immunity of established vaccines

Moderator *Joanna Maria Zajkowska (Bialystok, Poland)*
Reviewer *Michael Dalager-Pedersen (Aalborg, Denmark)*

SY114 **16:15 - 18:15** **Hall A**
Symposium

Late-breaking research from The Lancet group

Chairs *Emma Grainger (London, United Kingdom)*
Zoe Mullan (London, United Kingdom)

Details on the selected publications will be availble at a later stage

ID

SY115 **16:15 - 18:15** **Hall B**
Symposium

Updates on HIV treatment and prevention

Chairs *Jose Arribas (Madrid, Spain)*
Georg Behrens (Hannover, Germany)

S0473 **16:15** **Progress toward reaching HIV prevention and treatment targets in Europe**
Teymur Noori (Solna, Sweden)

S0474 **16:45** **HIV treatment: which are the drugs?**
Marta Vasylyev (Lviv, Ukraine)

S0475 **17:15** **HIV and the cure: what is new in the HIV the vaccine research?**
Simona Ruta (Bucharest, Romania)

S0476 **17:45** **Patients perspectives on PrEP**
Tamás Bereczky (Berlin, Germany)

Co-organised with: European AIDS Clinical Society (EACS)

CM

SY116 **16:15 - 18:15** **Hall E**
Symposium

Host and viral factors in COVID-19, what makes us sick?

Chairs *Mario Ramirez (Lisbon, Portugal)*
Annelies Verbon (Utrecht, Netherlands)

S0477 **16:15** **Host factors for disease severity of COVID-19**
Qian Zhang (New York, United States)

S0478 **16:45** **The interplay between host and viral factors in the evolving COVID-19 pandemic**
Marion Koopmans (Rotterdam, Netherlands)

S0479 **17:15** **Studying T-cell response after vaccination in COVID-19 transplant recipients**
Coretta Van Leer Buter (Groningen, Netherlands)

S0480 **17:45** **Genetic variants in the human population driving severe COVID**
Alessandra Renieri (Siena, Italy)

Co-organised with: UEMS Section of Medical Microbiology, UEMS Section of Infectious Diseases, ESCMID Study Group for Infections in the Elderly (ESGIE)

ID

SY117 **16:15 - 18:15** **Hall F**
Symposium

Emerging priorities and developments for antifungals and fungal infections

Chairs *Ana Alastruey-Izquierdo (Madrid, Spain)*
Arnaldo Colombo (São Paulo, Brazil)

S0481 **16:15** **Where do novel antifungals fit in clinical practice?**
Nina Khanna (Basel, Switzerland)

S0482 **16:45** **New fungal diagnostic tests to support the use of novel antifungal agents**
Luis Ostrosky-Zeichner (Houston, United States)

S0483 **17:15** **WHO Fungal Priority Pathogens List for research and development**
Hatim Sati (Geneva, Switzerland)

S0484 **17:45** **Challenges in clinical management of invasive fungal infections in low- and middle-income countries**
Arunaloke Chakrabarti (Chandigarh, India)

Co-organised with: International Immunocompromised Host Society (ICHS), World Health Organization (WHO)

ID

EW118 **16:15 - 18:15** **Hall I**

Educational Workshop

The different faces of Lyme borreliosis

Chairs *Anna J. Henningsson (Jönköping, Sweden)*
Mateusz Markowicz (Vienna, Austria)

W0485 **16:15** **In the skin: dermatologic manifestations of Lyme borreliosis**
Franc Strle (Ljubljana, Slovenia)

W0486 **16:45** **In the brain: Lyme neuroborreliosis**
Randi Eikeland (Kristiansand, Norway)

W0487 **17:45** **In the joints: Lyme arthritis**
Benoît Jaulhac (Strasbourg, France)

Co-organised with: ESCMID Study Group for Lyme Borreliosis (ESGBOR)

ID

EW119 **16:15 - 18:15** **Hall J**

Educational Workshop

How to make clinical trials more efficient

Chairs *Marc J.M. Bonten (Utrecht, Netherlands)*
Herman Goossens (Edegem, Belgium)

W0488 **16:15** **Which operational factors determine the efficiency of clinical trial execution**
Marouan Zarrouk (Wuppertal, Germany)

W0489 **16:45** **Which design aspects can enhance clinical trial efficiency**
Marlieke E.A. De Kraker (Geneva, Switzerland)

W0490 **17:45** **What is an adaptive platform trial**
Cornelis H. Van Werkhoven (Utrecht, Netherlands)

Co-organised with: European Clinical Research Alliance on Infectious Diseases (ECRAID)

OS120 **16:15 - 18:15** **Hall C**

2-Hour Oral Session

Sepsis biomarkers: from gene to score

Chairs *Pierre-Yves Bochud (Lausanne, Switzerland)*
Fanny Lanternier (Paris, France)

O0491 **Is invasive pneumococcal disease a marker of an underlying primary immunodeficiency?**
A. Gwee (Melbourne, Australia), L.K. Phuong, A. Cheung, T. Cole, R. Agrawal, C. Butters, J. Clark, N. Curtis, A. Daley, H. Dobinson, C. Frith, N.S. Hameed, H. Hernstadt, P. Loke, S. Ojaimi, B. Mcmullan, E.G. Sharp, P. Sinnappurajar, T. Templeton, S. Wen*

O0492 **Identification of conserved detrimental host immune response predicts severity of bacterial and viral infections**
P. Khatri (Palo Alto, United States), M. Freedman, H. Zheng, A. Rao, L. Murphy Jones, D. Dermadi, B. Solomon, L. Kalesinskas*

O0493 **Genome wide association study reveals pathogen genomic factors associated with patient outcome in *Escherichia coli* bloodstream infections**
S. Lipworth (Oxford, United Kingdom), K. Vihta, K. Chau, L. Barker, S. George, J. Kavanagh, T. Davies, A. Vaughan, M. Andersson, K. Jeffery, S. Oakley, M. Morgan, S. Hopkins, T. Peto, D. Crook, A.S. Walker, N. Stoesser*

O0494 **A robust whole blood mRNA combination identify septic patients at high risk of mortality at day-28 after ICU admission**
L. Kreitmann (Lyon, France), M.A. Cazalis, G. Monneret, F. Conti, A. Pachot, K. Brengel-Pesce, J.F. Llitjos*

O0495 **A novel 29-mRNA host response test to predict bacterial infections in the emergency department**
K. Tong-Minh (Rotterdam, Netherlands), O. Liesenfeld, Y. Van Der Does*

O0496 **Developing a sepsis clinical response score to predict mortality in neonates hospitalised in low- and middle-income settings: the NeoSep Recovery Score**
W. Stöhr (London, United Kingdom)*

O0497 **Early diagnosis of sepsis using novel biomarkers fibroblast growth factor 21 (FGF21) & neutrophil granularity intensity (NEUT-GI)**
A. Ravindra (Jodhpur, India), V. Jha, M.K. Garg, D. Kumar, G.K. Bohra, D.S. Meena, N. Midha, S. Khichar, N. Santhanam, A.H. Purohit, P. Purohit, A. Rohila*

O0498 **Evaluation of a rapid cellular host response test for risk of development of sepsis in various suspected infection patients in the emergency department (ED)**
H. O'Neal (Baton Rouge, United States), R. Sheybani, T. Caffery, H. Tse, A. Shah, C. Thomas*

O0499 **BIRC6 modifies risk of invasive bacterial infection in Kenyan children**
J. Gilchrist (Oxford, United Kingdom), S. Kariuki, J. Watson, G. Band, S. Uyoga, C. Ndila, N. Mturi, S. Mwarumba, M. Mosobo, S. Mohammed, K. Rockett, A. Mentzer, D. Kwiatkowski, A. Hill, J. Scott, T. Williams*

O0500 **A trans-ancestry genomics-based approach to study the interplay between the immune system, pathogen virulence, and HLA type, ancestry and sepsis outcome**
S. Mangul (Topanga, United States)*





13th International Meeting on Microbial Epidemiological Markers (IMMEM XIII)
Bath, United Kingdom
14–17 September 2022

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OS121 **16:15 - 18:15** **Hall G**

2-Hour Oral Session

Genomic epidemiology of nosocomial infections

Chairs *Patrick Harris (Herston, Australia)*
Guido Werner (Wernigerode, Germany)

00501 **Hypervariable-Locus Melting Typing (HLMT) protocol for the simultaneous detection and typing of *Serratia marcescens*: a rapid and cost effective tool to limit outbreaks in neonatal intensive care units (NICUs)**
F. Comandatore (Milan, Italy), A. Alvaro, A. Piazza, M. Perini, A.R. Pasala, S. Papaleo, S. Panelli, T. Nardi, S.G. Rimoldi, C. Mauri, M. Corbella, A. Cavallero, C. Farina, G.V. Zuccotti*

00502 **Whole genome sequencing reveals two simultaneous outbreaks involving VIM-2 positive ST111 and blaOXA-74 positive ST235 *Pseudomonas aeruginosa***
A. Rath (Regensburg, Germany), S. Blaas, M. Pfeifer, B. Kieninger, J. Fritsch, A. Caplunik-Pratsch, W. Schneider-Brachert, T. Holzmann*

00503 **Dissemination of a mosaic transposon carrying 14 different antimicrobial resistance genes driven by a polyclonal outbreak in two hospitals**
L. Van Alphen (Maastricht, Netherlands), C. Jamin, E. Heddema, W. Van Der Zwet, C. Hoebe, P. Savelkoul*

00504 **Comprehensive genomic investigation into in-host evolution of vancomycin resistant *Enterococcus faecium* over 3.5 years**
H. Seth-Smith (Basel, Switzerland), A. Durovic, T. Roloff, M. Meola, C. Casanova, S. Tschudin-Sutter, A. Egli*

00505 **Simulation of a real-time transmission surveillance using Fourier-transform infrared spectroscopy and whole genome sequencing for strain typing**
S. Wolf (Tübingen, Germany), E. Barth-Jakschic, B. Bader, S. Peter, J. Liese*

00506 **Transmission routes of *Pseudomonas aeruginosa* in an intensive care unit identified by WGS**
C. Couchoud (Besançon, France), X. Bertrand, B. Valot, D. Hocquet*

00507 **Genomic epidemiology and characterisation of methicillin-resistant *Staphylococcus aureus* from bloodstream infections in China**
Y. Jin (Hangzhou, China), W. Zhou, Y. Xiao*

00508 **Vancomycin-resistant *Enterococcus faecium* isolates attributed to clusters among hospitalised patients across different hospitals and hospital trusts in Berlin, Germany: results from routine outbreak and transmission analyses**
F. Maechler (Berlin, Germany), A. Weber, P. Gastmeier, M. Behnke, A. Kola*

00509 **Routes of transmission of VIM-positive *Pseudomonas aeruginosa* in the adult intensive care unit: an analysis of 9 years of surveillance at a university hospital using a mathematical model**
A. Büchler (Rotterdam, Netherlands), T.M. Pham, A.F. Voor In 'h Holt, J.A. Severin, M.C.J. Bootsma, D. Gommers, M.E. Kretzschmar, M.C. Vos*

00510 **Clinical implementation of routine whole genome sequencing for hospital infection control of multidrug-resistant pathogens**
B. Forde (Brisbane, Australia), P. Harris, A. Jennison, K. Hajkowicz, G. Playford, J. Clark, S. Beatson, D. Paterson*

OS122 **16:15 - 18:15** **Hall H**

2-Hour Oral Session

AMR *Acinetobacter*, *Pseudomonas* and *Salmonella*: what is new?

Chairs *Alvaro Pascual Hernandez (Seville, Spain)*
Fusun Can (Istanbul, Turkey)

00511 **Origin, phylogeny, and transmission of the epidemic clone ST208 of carbapenem-resistant *Acinetobacter baumannii* on a global scale**
Y. Gao (Beijing, China), H. Li, H. Chen, J. Zhang, R. Wang, Z. Wang, H. Wang*

00512 **Trends of carbapenem-resistant *Acinetobacter baumannii* and carbapenem-resistant *Pseudomonas aeruginosa* in Spain, 2012-21**
Á. Asensio Vegas (Madrid, Spain), M. Cantero Caballero, L.M. Parra Ramírez, A. Vallejo Plaza, R.M. Orti Bordas, I. Salcedo Leal*

00513 **The strategic typhoid alliance across Africa and Asia (STRATAA): genetic epidemiology of typhoidal *Salmonella* in Blantyre Malawi, Kathmandu Nepal and Dhaka Bangladesh**
Z. Dyson (London, United Kingdom), P.M. Ashton, J.E. Meiring, S. Duchene, F. Khanam, A.C. Chirambo, C.L. Msefula, H.C. Banda, B.C. Kutambe, A. Karkey, M. Shakya, S. Tonks, C. Dolecek, S.J. Dunstan, J.D. Clemens, V.E. Pitzer, F. Qadri, B. Basnyat, M.A. Gordon, R.S. Heyderman, G. Dougan, S. Baker, A.J. Pollard, K.E. Holt*

00514 **Antimicrobial resistance and genomic characterisation of *Acinetobacter baumannii* and *Pseudomonas aeruginosa* clinical isolates from a nationally representative survey in Saudi Arabia**
M. Doumith (Riyadh, Saudi Arabia), R. Bawazeer, S. Alhassinah, A. Alswaji, M. Alzayer, E. Alrashidi, A. Alshahrani, L. Okdah, S. Aljohani, H. Balkhy, M. Alghoribi*

00515 **Molecular characterisation of carbapenem non-susceptible strains of *Acinetobacter baumannii* and *Pseudomonas aeruginosa* isolated from a hospital in southern Lima**
F. Guibert (Lima, Peru), J. Choque-Matos, K. Espinoza, K. Ocampo, C. Valera, M.J. Pons, J. Ruiz*

00516 **Characterisation of extensively and pan-drug resistant *Acinetobacter baumannii* clinical isolates obtained from private and public hospitals in South Africa**
C. Buys (Pretoria, South Africa), J. Pitout, K.A. Strydom, C. Kingsburgh, B. Skosana, M. Kock*

00517 **Characterisation of *Acinetobacter baumannii-calcoaceticus* complex (ABC) pathogens isolated at baseline from patients enrolled in the ATTACK phase III trial**
A. Miller (Waltham, United States), S. Mcleod, D. Chabas, G. Poirier, D. Altarac*

00518 **Carbapenemase producing *Salmonella* from non-human sources in Germany: an update**
J. Fischer (Berlin, Germany), A. Bloch, E. Junker, G. Raatz, M. Grobbel, A. Irrgang, C. Deneke, I. Szabo*

00519 **Large-scale analysis of carbapenem-resistant *Acinetobacter baumannii* reveals patterns of dissemination of ST clades associated with antibiotic resistance**
M.N. Lurie-Weinberger (Tel Aviv, Israel), S. Frenk, E. Temkin, A. Keren-Paz, R. Rov, N. Rakovitsky, L. Wullfhart, A. Nutman, M. Paul, G.L. Daikos, E. Durante-Mangoni, D. Yahav, A. Skiada, L. Leibovici, Y. Carmeli*

00520 **Genomic analysis of *Salmonella enterica* serovar Kentucky ST198 strains isolated over 10 years from clinical cases in Switzerland**
M. Biggel (Zurich, Switzerland), J. Horlborg, M. Nüesch-Inderbinen, R. Stephan*

OS123 **16:15 - 18:15** **Hall K**
2-Hour Oral Session

What's fast, new and relevant in infectious disease diagnostics?

Chairs *Truls Michael Leegaard (Lørenskog, Norway)*
Carmen Munoz-Almagro (Barcelona, Spain)

00521 **Improvement of pre-analytical workflow in a clinical laboratory using lean principles combined with lab automation: impact of the WASP® integration in Hospital General Universitario de Albacete, Spain**
V. González (Madrid, Spain), E. Escribano, J. Lozano, J. Parra, A. Garcia, P. Martin, N. Salas, S. Sierra, C. Sainz De Baranda*

00522 **Comparison of conventional culture with T2MR technology for microbial pathogen detection in non-blood specimens collected from paediatric patients**
M. Agosta (Rome, Italy), L. Mancinelli, B. Lucignano, M. Onori, S. Al Bitar Nehme, G. Mattana, M. Argentieri, L. Pansani, A. Sisto, A. Santisi, F. Tortora, T. Fragasso, C.F. Perno, P. Bernaschi*

00523 **Comparison of the APAS Independence Automated Plate Reader System with manual Standard-of-Care for processing urine culture specimens**
D. Pride (La Jolla, United States), P. Kuo, M. Chiu, P. Ramos, R. Barba*

00524 **Fast lipid analysis technique (FLAT) a rapid, direct from urine diagnostic assay for identification of Gram-negative pathogens**
R. Ernst (Baltimore, United States), H. Yang, R. Smith, A. Joshi, D. Goodlett, J. Jennifer*

00525 **Evaluation of a prototype molecular assay to differentiate bacterial versus viral infections from whole blood based on host gene expression**
M. Faron (Milwaukee, United States), B. Mesich, A. Cruz, E. Wallace, F. Strouts, D. Persing*

00526 ***In vitro* pathogen differentiation by mass spectrometry based detection of C-terminal alpha-1-antitrypsin peptides**
F. Scherr (Jena, Germany), L. Kasper, F.DEP Hoffmann, S. Neugebauer, B. Hube, L. Tuchscherr, F. Von Eggeling, M. Kiehntopf*

00527 **Electrochemical monitoring of metabolites for detection and label-free identification of microorganisms: towards a smart blood-culture bottle**
T. Cohu (Saint-Martin-D'hères, France), P.R. Marcoux, M. Gougis, P. Mailley*

00528 **Clinical evaluation of a new selective medium for non-tuberculous mycobacteria: a prospective multi-centre study**
J. Esteban (Madrid, Spain), A. Broncano-Lavado, L. Barrado-Blanco, J. Cacho-Calvo, D. Domingo, J. Garcia-Martinez, S. Hernandez, P. Lopez-Roa, R. Millan-Perez, E. Perez-Cecilia, M.J. Ruiz-Serrano, S. Salso-Ortiz, M. Simon-Sacristan, M. Tato-Diez, C. Toro-Rueda, J.F. Valverde-Canovas*

00529 **Application of MALDI-TOF MS and machine learning for differentiation between the subspecies from *Mycobacterium abscessus* complex**
D. Rodriguez-Temporal (Madrid, Spain), L. Herrera, M.J. Ruiz-Serrano, P. Muñoz, B. Rodríguez-Sánchez*

00530 **Impact of routine molecular point-of-care testing for respiratory pathogens in critically unwell patients with pneumonia: a pragmatic, open-label, randomised controlled trial**
S. Poole (Southampton, United Kingdom), A.R. Tanner, V.V. Naidu, F. Borca, H.T.T. Phan, K. Saeed, M.P.W. Grocott, A. Dushianthan, N.J. Brendish, H.E. Moyses, T.W. Clark*

VW124 **16:15 - 17:15** **Arena 2**
Virtual Walk Through

Standardised methods for antimicrobial susceptibility testing

Moderator *Helena Zemlickova (Prague, Czech Republic)*
Reviewer *Laurent Dortet (Le Kremlin-Bicêtre, France)*

Scientific Programme Overview
Monday, 25 April 2022

Hall A	Hall B	Hall C	Hall D	Hall E	Hall F
		07:15 - 08:15			
		ME125 ESCMID & IDSA treatment guidelines for MDR Gram-negative bacterial infections (ID)			
	08:30 - 10:30	08:30 - 10:30	08:30 - 10:30	08:30 - 10:30	08:30 - 10:30
	SY132 Long-read sequencing: from benchtop to bedside (CM)	SY133 Severe skin and soft tissue infection (ID)	OS138 Attractive tools aiding the diagnosis of fungal infections	SY134 Past, present and future of pandemics: preparedness and first defense (PH)	EW137 Infectious biofilm in the healthcare environment (IC)
11:00 - 12:00	11:00 - 12:00	11:00 - 12:00	11:00 - 12:00	11:00 - 12:00	11:00 - 12:00
KN143 Advances in clinical antibacterial resistance research (CM)	SY144 Beyond species ID: Innovative uses of MALDI-TOF in the clinical microbiology lab (CM)	SY145 Tuberculous meningitis (ID)	OS156 Management of difficult-to-treat antibiotic-resistant cases	SY146 Communicating COVID-19: fact and fiction (PH)	OS153 Novel observations in protective host responses to infection
	13:30 - 15:30	13:30 - 15:30	13:30 - 14:30	13:30 - 14:30	13:30 - 15:30
	SY161 The role of genomics in AMR surveillance (CM)	EW164 Antifungal prophylaxis in transplantation: a benefit for which patients? (ID)	OS168 Complicated endovascular infections	SY162 Year in Infection Control (IC)	EW165 Changing world of infectious diseases: urbanisation and digitalisation (PH)
14:45 - 15:45			14:45 - 15:45	14:45 - 15:45	
KN171 Harnessing deep learning and synthetic biology to fight pathogens (PH)			OS175 Invasive fungal infections in the immunocompromised	SY172 AI in infectious disease management and control (IC)	
	16:15 - 18:15	16:15 - 18:15	16:15 - 17:15	16:15 - 18:15	16:15 - 18:15
	SY178 Sepsis 2022: prevent it, spot it, treat it, beat it (ID)	EW182 Fungal diagnosis: questions from the bedside and answers from the bench (ID)	OS185 Uncommon systemic infections	SY179 Late-breaking research from *Clinical Microbiology and Infection* journal	SY180 Gut reaction: the connection between biofilms and disease (CM)

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Colour Key

Educational Workshops, Meet-the-Expert Sessions | Symposia (1h/2h) | Oral sessions (1h/2h)
Keynote Lectures | Open Forum & Virtual Walk Throughs
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Sessions specifically interesting for:

(ID) Infectious Disease specialists (CM) Clinical Microbiologists (IC) Infection Control specialists (PH) Public Health specialists

Hall G	Hall H	Hall I	Hall J	Hall K	Hall L
07:15 - 08:15	**07:15 - 08:15**	**07:15 - 08:15**		**07:15 - 08:15**	
ME126	ME127	ME128		ME129	
Reconciling sepsis initiatives and antimicrobial stewardship programmes (ID)	Hepatitis D Virus: the neglected viral hepatitis (CM)	How I treat infections in patients awaiting solid organ transplantation (ID)		Driving the response to EIDs in LMICs with genomics and bioinformatics (CM)	
08:30 - 10:30	**08:30 - 10:30**	**08:30 - 10:30**	**08:30 - 10:30**	**08:30 - 10:30**	
SY135	OS139	OS140	SY136	OS141	
HIV and the reservoir: what is new? (ID)	Epidemic dynamics and transmission during the COVID-19 pandemic	Clinical consider-ations for tropical disease management	ESCMID Guidelines (ID) for the treatment of infections caused by multidrug-resistant Gram-negatives: a case-based approach	Cutting edge in mycobacterial research	
11:00 - 12:00	**11:00 - 12:00**	**11:00 - 12:00**	**11:00 - 12:00**	**11:00 - 12:00**	**11:00 - 12:00**
OS154	SY147	SY152	SY148	OF157	OF158
Novel combinations with potential to treat highly resistant pathogens	Using water to monitor circulating pathogens (CM)	Antimicrobial resistance and COVID-19: increase or decrease? (CM)	Prediction and prognosis of *Staphylococcus aureus* pneumonia (ID)	Diagnostics in clinical and scientific parasitology	Virus surveillance across different settings
					12:15 - 13:15
					IS38
					Rapid culture-independent diagnostics charting a new course for sepsis management and antimicrobial stewardship
13:30 - 15:30	**13:30 - 14:30**	**13:30 - 14:30**	**13:30 - 14:30**	**13:30 - 14:30**	**13:30 - 15:30**
EW166	OF169	SY163	OS167	OF170	IS42
Antimicrobial tolerance in pathogens: bench to bedside (CM)	Community-acquired central nervous system infections	Recent top papers in transplant ID and haem/onc ID (ID)	Real-life COVID-19 vaccine effectiveness	Potential diagnostic tools for monitoring hepatotropic infections	Influenza vacci-nation: protection beyond flu
		14:45 - 15:45	**14:45 - 15:45**	**14:45 - 15:45**	
		SY173	OS174	OF176	
		Does AMR mitigation in LMICs require tech-nical capacity more than funding? (PH)	Secondary infections in COVID-19	Antibiotic stewardship in hospitals and primary care	
16:15 - 18:15		**16:15 - 18:15**	**16:15 - 18:15**		**16:15 - 18:15**
SY181		OS184	EW183		IS47
Unveiling the mysteries of FMT efficacy (ID)		Microbial diversity studies across diverse settings	Prevention of nosocomial bloodstream infections (IC)		What matters in the fight against COVID-19: how to keep high levels of protection in a multi-variant environment?

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Scientific Programme Overview
Monday, 25 April 2022

Hall M	Hall N	Hall O	Hall P	Hall Q
	07:15 - 08:15		**07:15 - 08:15**	
	ME130		ME131	
	Implementing PK/PD and TDM of anti-infectives in clinical practice (CM)		How to do infection control, season 2: construction and renovation (IC)	
	08:30 - 10:30	**08:30 - 10:30**	**08:30 - 10:30**	**08:30 - 10:30**
		IS35	IS33	IS36
		The science of mRNA COVID-19 vaccines: paving the way for a new prevention paradigm	Ongoing challenges in pandemic management	RSV in adults: the hidden enemy
11:00 - 12:00	**11:00 - 12:00**	**11:00 - 12:00**	**11:00 - 12:00**	**11:00 - 12:00**
SY149	SY150	OS155	OF159	SY151
mecC MRSA: epidemiology and evolution (CM)	Top papers in mycology (ID)	Transmission and persistence of *Klebsiella* spp.	Predictors of disease severity and mortality in COVID-19	*Clostridioides difficile* infection: importance of learning from patients experience (IC)
	12:15 - 13:15	**12:15 - 13:15**	**12:15 - 13:15**	**12:15 - 13:15**
	IS39	IS40	IS41	IS37
	How multiplexed molecular testing for infectious disease is evolving	Testing for respiratory viruses: a dynamic field in an evolving environment	The transition from emergency to routine SARS-CoV-2 vaccines: what data do we have and what data do we need?	Faster ID and AST revolution: how to improve antibiotic use in critically ill
13:30 - 15:30			**13:30 - 15:30**	**13:30 - 15:30**
IS43			IS45	IS46
Fighting COVID-19: how healthcare advances are tipping the scale in humanity's favour			Innovating patient care with PCR diagnostics: the fast, the accurate, and the easy	Treating Gram-negative infections caused by pathogens with limited treatment options: unanswered questions and emerging evidence
	16:15 - 18:15	**16:15 - 18:15**	**16:15 - 18:15**	**16:15 - 18:15**
	IS44	IS48	IS49	IS50
	The calm after the storm? Antivirals for hospitalised patients with COVID-19 in the post vaccination era	Antimicrobial resistance and detection: a continued critical issue	Moving next-generation sequencing to clinical microbiology laboratories: the future is now!	The current and emerging antiviral landscape for SARS-CoV-2

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Arena 1 & 2

Session Time	Session			Arena
08:30 - 09:30	VW142	Virtual Walk Through	A COVID-19 walk-through	**2**
11:00 - 12:00	VW160	Virtual Walk Through	Lessons learned: will COVID-19 change IPC's daily work?	**1**
14:45 - 15:45	VW177	Virtual Walk Through	IT tools in antimicrobial stewardship	**2**
16:15 - 17:15	VW186	Virtual Walk Through	AMR from wastewater and aquatic environment	**2**

Scientific Programme
Monday, 25 April 2022

ID

ME125 **07:15 - 08:15** **Hall C**
Meet-the-Expert

ESCMID & IDSA treatment guidelines for MDR Gram-negative bacterial infections

M0531 **07:15** *Mical Paul (Haifa, Israel)*
M0532 **07:45** *Pranita Tamma (Baltimore, United States)*

ID

ME126 **07:15 - 08:15** **Hall G**
Meet-the-Expert

Reconciling sepsis initiatives and antimicrobial stewardship programmes

M0533 **07:15** *Jeroen Schouten (Nijmegen, Netherlands)*
M0534 **07:45** *Karin Thursky (Carlton, Australia)*

CM

ME127 **07:15 - 08:15** **Hall H**
Meet-the-Expert

Hepatitis D Virus: the neglected viral hepatitis

M0535 **07:15** *Cihan Yurdaydin (Ankara, Turkey)*
M0536 **07:45** *Ivana Carey (London, United Kingdom)*

Co-organised with: ESCMID Study Group for Viral Hepatitis (ESGVH), European Society of Virology (ESV)

ID

ME128 **07:15 - 08:15** **Hall I**
Meet-the-Expert

How I treat infections in patients awaiting solid organ transplantation

M0537 **07:15** *Margaret Hannan (Dublin, Ireland)*
M0538 **07:45** *Maxime Mallet (Paris, France)*

CM

ME129 **07:15 - 08:15** **Hall K**
Meet-the-Expert

Driving the response to EIDs in LMICs with genomics and bioinformatics

M0539 **07:15** *Alan Christoffels (Cape Town, South Africa)*
M0540 **07:45** *Christian Happi (Ede, Nigeria)*

CM

ME130 **07:15 - 08:15** **Hall N**
Meet-the-Expert

Implementing PK/PD and TDM of anti-infectives in clinical practice

M0541 **07:15** *Sophie Stocker (Camperdown, Australia)*
M0542 **07:45** *Federico Pea (Bologna, Italy)*

Co-organised with: ESCMID PK/PD of Anti-Infectives Study Group (EPASG)

IC

ME131 **07:15 - 08:15** **Hall P**
Meet-the-Expert

How to do infection control, season 2: construction and renovation

M0543 **07:15** *Birgitta Lytsy (Uppsala, Sweden)*
M0544 **07:45** *Elisabeth Presterl (Vienna, Austria)*

Co-organised with: ESCMID Study Group for Nosocomial Infections (ESGNI)

CM

SY132 **08:30 - 10:30** **Hall B**
Symposium

Long-read sequencing: from benchtop to bedside

Chairs *Ângela Novais (Porto, Portugal)*
Alex Friedrich (Münster, Germany)

S0545 **08:30** **Characterising pathogens in respiratory samples using rapid metagenomic sequencing**
Themoula Charalampous (London, United Kingdom)

S0546 **09:00** **Using metagenomics to trace antimicrobial resistance and pathogen along the food chain**
Thi Thuy Do (Celbridge, Ireland)

S0547 **09:30** **Current state-of-the art in viral diagnostic metagenomics**
Jutte De Vries (Leiden, Netherlands)

S0548 **10:00** **Quality assessement for clinical shotgun metagenomics**
Christophe Rodriguez (Creteil, France)

Co-organised with: ESCMID Study Group for Epidemiological Markers (ESGEM), ESCMID Study Group for Genomic and Molecular Diagnostics (ESGMD)

Presentations in light grey were not registered at the time of publishing.

ID

SY133 **08:30 - 10:30** **Hall C**
Symposium

Severe skin and soft tissue infection

Chairs *Jodi Lindsay (London, United Kingdom)*
Matthias Zaccarin (Brabrand, Denmark)

S0549 **08:30** **Pathology of toxins**
Francois Vandenesch (Lyon, France)

S0550 **09:00** **Antimicrobial therapy**
Kristina Öbrink-Hansen (Herning, Denmark)

S0551 **09:30** **Surgical evaluation and intervention**
Christian Eckmann (Hannover, Germany)

S0552 **10:00** **Prospects for immunological interventions: IVIG-therapy**
Anna Norrby-Teglund (Stockholm, Sweden)

Co-organised with: ESCMID Study Group for Staphylococci and Staphylococcal Diseases (ESGS), ESCMID Study Group for Bloodstream Infections, Endocarditis and Sepsis (ESGBIES), ESCMID Study Group for Infections in Critically Ill Patients (ESGCIP)

PH

SY134 **08:30 - 10:30** **Hall E**
Symposium

Past, present and future of pandemics: preparedness and first defense

Chairs *Robert Leo Skov (Copenhagen, Denmark)*
Ines Steffens (Solna, Sweden)

S0553 **08:30** **Influenza and the COVID-19 pandemic**
Nicola Petrosillo (Rome, Italy)

S0554 **09:00** **Viral poliomyelitis: acute flaccid paralysis**
Nicholas Grassly (London, United Kingdom)

S0555 **09:30** **Ebola and other haemorrhagic fevers**
Eskild Petersen (Aabyhoj, Denmark)

S0556 **10:00** **What we learnt from COVID-19 for Crimean-Congo haemorrhagic fever**
Önder Ergönül (Istanbul, Turkey)

Co-organised with: ESCMID Study Group for Public Health Microbiology (ESGPHM)

ID

SY135 **08:30 - 10:30** **Hall G**
Symposium

HIV and the reservoir: what is new?

Chairs *Linos Vandekerckhove (Ghent, Belgium)*
Annelies Verbon (Utrecht, Netherlands)

S0557 **08:30** **Exploring HIV cure in a resource-limited setting**
Thumbi Ndung'u (Durban, South Africa)

S0558 **09:00** **New ways to manipulate the reservoir**
Tokameh Mahmoudi (Rotterdam, Netherlands)

S0559 **09:30** **New immunological insights for destroying the reservoir**
Marta Massanella Luna (Madrid, Spain)

S0560 **10:00** **What is new in clinical trials?**
Thomas A. Rasmussen (Aarhus, Denmark)

ID

SY136 **08:30 - 10:30** **Hall J**
Symposium

ESCMID Guidelines for the treatment of infections caused by multidrug-resistant Gram-negatives: a case-based approach

Chairs *Jesús Rodríguez-Baño (Seville, Spain)*
George L. Daikos (Athens, Greece)

S0561 **08:30** **Cases of cephalosporin-resistant Enterobacterales**
Thomas Tängdén (Uppsala, Sweden)

S0562 **09:00** **Cases of carbapenem-resistant Enterobacterales**
Pilar Retamar Gentil (Seville, Spain)

S0563 **09:30** **Cases of multidrug-resistant *P. aeruginosa***
Robert A. Bonomo (Cleveland, United States)

S0564 **10:00** **Cases of multidrug-resistant *A. baumannii***
Elena Carrara (Verona, Italy)

IC

EW137 **08:30 - 10:30** **Hall F**
Educational Workshop

Infectious biofilm in the healthcare environment

Chairs *Craig Williams (Lancaster, United Kingdom)*
Elisabeth Presterl (Vienna, Austria)

W0565 **08:30** **Endoscope contamination: why does this happen and how can it be detected?**
Michelle Alfa (Winnipeg, Canada)

W0566 **09:00** **Water-associated biofilms in the healthcare environment**
Richard Betham (Scott Creek, Australia)

W0567 **10:00** **Environmental reservoirs of infectious biofilm**
Karen Vickery (Sydney, Australia)

Co-organised with: ESCMID Study Group for Biofilms (ESGB), ESCMID Study Group for Nosocomial Infections (ESGNI)

OS138 **08:30 - 10:30** **Hall D**
2-Hour Oral Session

Attractive tools aiding the diagnosis of fungal infections

Chairs *Jesus Guinea (Madrid, Spain)*
Michaela Lackner (Innsbruck, Austria)

00568 **Respiratory mycobiome in broncho-alveolar aspirates from mechanically ventilated intensive care unit patients**
A. Shajiei (Groningen, Netherlands), L. Lui, J. Seinen, W. Dieperink, J.M. Van Dijl, H. Harmsen*

00569 **On the verge of a new typing tool for outbreak analysis: Fourier transform infrared (FT-IR) spectroscopy based typing of azole-resistant bloodstream infection *Candida parapsilosis* isolates**
E. De Carolis (Rome, Italy), B. Falasca, C. Martini, B. Posteraro, M. Sanguinetti*

00570 **Usefulness of 18F-FDG PET-CT for the management of invasive fungal infections**
A. Fernandez Cruz (Madrid, Spain), I. Gutiérrez-Martín, S. García-Prieto, K. Velásquez, J. Calderón-Parra, M. Calvo, A. Ramos-Martínez, E. Múñez-Rubio, A. Callejas-Díaz, A. Díaz De Santiago, S. De La Fuente-Moral, I. Sánchez-Romero, B. Rodríguez-Alfonso, A. Fernández-Cruz*

00571 **Predictive model combining serial (1,3)-β-d-glucan assay, risk factors and clinical signs for the diagnosis of invasive candidiasis in ICU patients: a prospective study**
F. Olearo (Hamburg, Germany), B. Abdennadher, D. Wichmann, S. Kluge, A. Hot, M. Aepfelbacher, H. Rohde, M. Christner*

00572 **Comparison of four diagnostic criteria for invasive pulmonary aspergillosis: a diagnostic accuracy study in critically ill patients**
M. Schroeder (Hamburg, Germany), M. Giese, C. Wijaya, S. Winterland, A. Nuechtern, J. Grensemann, H. Matthews, D. Wichmann, H. Rohde, M. Christner, A.K. Ozga, S. Steurer, A. Heinemann, M. Simon, M. Fischer, S. Kluge*

00573 **Active screening of CAPA in ICU with serum beta-glucan and endotracheal aspirates galactomannan and fungal culture**
P. Pavone (Reggio Emilia, Italy), G. Russello, G. Salati, P. Salsi, L. Spaggiari, R. Corsini, L. Vizzini, P. Nardini, V. Menozzi, A. Spadoni, F.G. Piccioni, E. Carretto, M. Massari*

00574 **A DNA-sequencing workflow for mucormycosis diagnosis and species identification on native clinical samples**
S. Imbert (Bordeaux, France), E. Pfister, B. Tauzin, M. Hernandez-Grande, M.E. Lafon, L. Delhaes*

00575 **Comparison the efficacy of semi-nested PCR with PCR/HRM in detection/identification of mucormycosis from fresh clinical specimens using Mucorales specific primers**
K. Ahmadikia (Tehran, Iran, Islamic Republic of), S. Rezaie, S.J. Hashemi, R. Daie Ghazvini, S. Khodavaisy, H. Mirhendi, R. Mohammadi, E. Roilides*

00576 **The clinical sensitivity of 1,3-beta-D-glucan in candidaemia patients**
Y.W. Lee (Seoul, Korea, Republic of), S.Y. Lim, H.J. Park, H. Sung, M.N. Kim, S. Bae, J. Jung, M.J. Kim, S.H. Kim, S.H. Choi, Y.S. Kim, Y.P. Chong*

00577 **Molecular characterisation and phylogenetic analysis of *Aspergillus Terrei* in a tertiary hospital in Spain during 2018-2020**
A.T.B. Tristancho-Baró (Zaragoza, Spain), C.L.F. Lass-Flörl, N.L. Lackner, C.L. López-Gómez, O.A. Algara-Robles, A.R.L. Rezusta-López*

OS139 **08:30 - 10:30** **Hall H**
2-Hour Oral Session

Epidemic dynamics and transmission during the COVID-19 pandemic

Chairs *Emine Alp Mese (Ankara, Turkey)*
Evangelos Giamarellos-Bourboulis (Athens, Greece)

00577A **Multi-centre evaluation of the COVID-19 pandemic's impact on antimicrobial resistance across United States hospitals**
K.A. Bauer (Kenilworth, United States), L.A. Puzniak, K.C. Yu, K.P. Klinker, J. Watts, P.A. Moise, L. Finelli, V. Gupta*

00578 **Risk of SARS-CoV-2 infection among members of a fitness centre chain in Stockholm, Sweden 2020: is going to the gym risky?**
A. Kongelf (Solna, Sweden), A. Kongef, J. Collin, M. Axelsson, L. Van Leest, A. Wallensten, M. Rehn*

00579 **Dancing with COVID-19: rapid spread of the Delta variant in bars and nightclubs after relaxation of infection control measures in the Netherlands**
J. Dingemans (Maastricht, Netherlands), K. Gorgels, B. Van Der Veer, V. Hackert, C. Den Heijer, L. Van Alphen, C. Hoebe, P. Savelkoul*

00580 **Phylodynamics of SARS-CoV-2 transmission in France, 2020**
B. Visseaux (Paris, France), R. Coppée, F. Blanquart, V. Leducq, K. Zafilaza, A.M. Franco-Rusti, L. Daniel, C. Charpentier, A. Jary, V. Calvez, D. Descamps, A.G. Marcellin, A. Bridier-Nahmias*

00581 **SURCOEFF: survey quantification and NGS genotyping of SARS-CoV-2 in effluents from wastewater plants, town districts and nursing homes, a story of waves**
S. Alain (Limoges, France), M. Gaschet, M. Gomez-Mayeras, V. Tilloy, E. Guérin, E. Barouillet, L. Alifat, J. Jouan, G. Boissière, M. Courant, O. Merle, B. Bertin, P. Dehail, H. Habarou, F. Huré, M.C. Ploy, E.R. Lombertie, M. Crouzoulon, C. Dagot*

00582 **Assessment of maternal and neonatal SARS-CoV-2 antibodies in Northern Italy in pre-vaccination era**
L. Gabrielli (Bologna, Italy), E.C. Borgatti, C. Marsico, M.G. Capretti, G. Simonazzi, S. Venturoli, M. Lenzi, F. Sandri, T. Lazzarotto*

00583 **Genomic investigation of the spatio-temporal SARS-CoV-2 spread during the first pandemic wave in the canton of Vaud, Switzerland**
Y. Choi (Lausanne, Switzerland), D. Jacot, A. Ladoy, D. Deridder, T. Pillonel, S. Vuilleumier, S. Joost, C. Bertelli, G. Greub*

00584 **Leveraging of the semi-quantification of SARS-CoV-2 RT-PCR results to forecast epidemic trends**
N. Yin (Brussels, Belgium), S. Van Den Wijngaert, L. Mekkaoui, C. Michel, G. Zorzi, D. Van Cauteren, M. Hallin, D. Martiny, O. Vandenberg*

00585 **Airborne transmission of SARS-CoV-2 lineage B.1.617.2 (Delta variant) within a tightly monitored isolation facility**
A. Fox-Lewis (Auckland, New Zealand), F. Williamson, J. Harrower, X. Ren, G.J.B. Sonder, A. Mcneill, J. De Ligt, J.L. Geoghegan*

00586 **Trends in SARS-CoV-2 seroprevalence in Massachusetts estimated from newborn screening specimens**
K. Ma (Boston, United States), J. Hale, Y. Grad, G. Alter, K. Luzuriaga, R. Eaton, S. Fischinger, D. Kaur, R. Brody, S. Siddiqui, D. Leach, C. Brown, R.M. Klevens, L. Madoff, A. Comeau*

OS140 08:30 - 10:30 Hall I
2-Hour Oral Session

Clinical considerations for tropical disease management

Chairs *Zeno Bisoffi (Negrar, Italy)*
Maria João Lopes (Amadora, Portugal)

00587 **Associated risk of *Blastocystis* infection in colorectal cancer**
L. Labania (Al Ain, United Arab Emirates), S. Zoughbor, A. Hassan, H. Alktifan, M. Alktifan, S. Alnuaimi, S. Ajab, M. Olanda, Z. Al Rasbi*

00588 **Correlations of serological routine markers with PET-CTI tracer uptake and lesion size, and the possible impact for future follow-up strategies in alveolar echinococcosis**
L. Peters (Ulm, Germany), J.F. Hotz, S. Kapp-Schwörer, N. Eberhardt, A. Essig, B. Grüner, J.B. Hagemann*

00589 **Interferon gamma release assay (IGRA) in the diagnosis of congenital toxoplasmosis**
A. Vola (Pavia, Italy), G. Ferrari, G. Cornaro, A. Bonetti, V. Meroni*

00590 **Implementation of C-reactive protein point-of-care testing to improve antibiotic targeting in respiratory illness in Vietnamese primary care (ICAT): a cluster-randomised controlled trial**
T.T.N. Do (Hanoi, Vietnam), T.V.D. Vu, R.C. Greer, S. Dittrich, M. Vandendorpe, N.T. Pham, T.D.N. Ta, H.T. Cao, T.V. Khuong, T.B.T. Le, T.H. Duong, T.H. Nguyen, N.T.H. Cai, T.Q.T. Nguyen, S.T. Trinh, H.R. Van Doorn, Y. Lubell, S.O. Lewycka*

00591 **Field experiences with handheld diagnostic devices to triage children under five presenting with severe febrile illness in a district hospital in DR Congo**
B. Tack (Antwerp, Belgium), D. Vita, A. Luyindula, I. Mansosa, T. Nsema, O. Lunguya, J. Jacobs*

00592 **Comparative proteomic analysis revealed differential expression of human plasma proteins between two clinically-different cystic echinococcosis groups and provide insights into their potential prognostic accuracy**
E. Ben Salah (Monastir, Tunisia), C. Barrera, W. Sakly, S. Mosbahi, T. Balliau, B. Gottstein, A. Ksia, M. Belguith, H. Babba, L. Millon*

00593 **Microbiologic causes of and outcomes from fever among patients receiving chemotherapy for the treatment of solid tumours in Uganda**
E.A. Gulleen (Seattle, United States), S.V. Adams, I. Mbrusha, D. Mubiru, B. Pedun, S. Heysell, M. Keng, W. Phipps, A. Omoding, C.C. Moore*

00594 **Inappropriate prescription of antibiotics among children in the community of three low- and middle-income countries**
B.T. Huynh (Paris, France), A. Ardillon, L. Ramblière, A. De Lauzanne, P. Herindrainy, J.B. Diouf, Z.Z. Andrianirina, T. Sok, M. Landau, L. Borand, F. Diene Sarr, M. Vray, J.M. Collard, E. Delarocque-Astagneau, D. Guillemot, E. Kermorvant-Duchemin*

00595 **The bioavailability of albendazole depending on fat intake: is it time to change recommendations?**
L. Peters (Ulm, Germany), K. Wolf, S. Burkert, B. Grüner*

00596 **Molecular infectious disease diagnostics for tropical parasitoses in returnees from the tropics in compliance with EU Regulation 2017/746 ("CE-IVD Directive")**
H. Frickmann (Hamburg, Germany)*

OS141 08:30 - 10:30 Hall K
2-Hour Oral Session

Cutting edge in mycobacterial research

Chairs *Jon S. Friedland (London, United Kingdom)*
Delia Goletti (Rome, Italy)

00597 **Platelets regulate monocyte collagenase-driven morbidity in tuberculosis through diverse signalling pathways**
D.E. Kirwan (London, United Kingdom), R.H. Gilman, J.S. Friedland*

00598 **Functional genetic variation in PE and PPE genes contributes to diversity in *Mycobacterium tuberculosis* and potential interactions with the human host**
P. Gómez González (London, United Kingdom), P.J. Gómez-González, S. Campino, M. Hibberd, L. Tientcheu, J. Phelan, T. Clark*

00599 **Fluoroquinolone resistance in a global compendium of *Mycobacterium tuberculosis* isolates**
A. Brankin (Oxford, United Kingdom), K. Malone, P. Fowler, A.S. Walker*

00600 **A comprehensive evaluation of the diagnostic performance of reported lipoarabinomannan assays on tuberculosis infection: a systematic review and meta-analysis of 159 studies**
Y. Zhou (Chengdu, China), M. Lyv, Y. Chen, Y. Wang, Y. Cheng, B. Ying*

00601 **What is the role of rifampicin within the standard regimen for *M. avium*? A hollow-fibre study**
J. Raaijmakers (Nijmegen, Netherlands), J. Schildkraut, J. Van Ingen*

00602 **Molecular epidemiology of *Mycobacterium abscessus* isolates recovered from German cystic fibrosis patients**
N. Wetzstein (Frankfurt, Germany), M. Diricks, T.A. Kohl, T.A. Wichelhaus, S. Andres, L. Pawloski, C. Schwarz, A. Lewin, J. Kehrmann, B. Kahl, K. Dichtl, C. Hügel, O. Eickmeier, C. Smaczny, A. Schmidt, S. Zimmermann, L. Nährlich, S. Hafkemeyer, S. Niemann, F.P. Maurer, M. Hogardt*

00603 **Efficacy and mode of action of a direct inhibitor of *Mycobacterium abscessus* InhA**
L. Kremer (Montpellier, France), M. Alcaraz, F. Roquet-Banères*

00604 **Revised definitions of pre-XDR/XDR-tuberculosis and treatment outcomes in France (2006-2019)**
Y. Kherabi (Paris, France), M. Jachym-Frechet, C. Rioux, Y. Yazdanpanah, V. Pourcher, J. Robert, L. Guglielmetti*

00605 **Preclinical assessment of apramycin as a candidate for the treatment of *Mycobacterium abscessus* infections**
M. Gysin (Zurich, Switzerland), D. Verma, K. Haldimann, K. Becker, D. Ordway, S.N. Hobbie*

00606 **Ethambutol and meropenem/clavulanic acid synergy promotes extracellular and intracellular killing of *Mycobacterium tuberculosis***
F. Olivença (Lisbon, Portugal), D. Pires, C. Silveiro, E. Anes, M.J. Catalão*

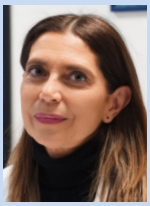
VW142 **08:30 - 09:30** **Arena 2**
Virtual Walk Through

A COVID-19 walk-through

Moderator *Neven Papic (Zagreb, Croatia)*
Reviewer *Irina-Cristiana Ianache (Bucharest, Romania)*

CM

KN143 **11:00 - 12:00** **Hall A**
Keynote Scientific interview



Advances in clinical antibacterial resistance research
Interviewer
Leonard Leibovici (Petah-Tiqva, Israel)
K0607 11:00
Evelina Tacconelli (Verona, Italy)

Evelina Tacconelli is the Director of the Infectious Diseases Section at Verona University Hospital, Italy, and serves as the Senior Consultant on Antimicrobial Resistance at the Department of Internal Medicine, DZIF Clinical Research Unit at the University of Tübingen, Germany. Previously, she coordinated the WHO priority list of antibiotic resistant bacteria for the research and development of new effective antibiotics as well as the WHO project on limitations of estimates of the burden of antibiotic resistant infections within the GLASS (Global Surveillance of Resistant Severe Infections) project. Prof. Tacconelli is a Chair of the European Committee for Infection Control (EUCIC), WHO and ECDC (European Centre for Disease Prevention and Control) consultant for infection control and antimicrobial stewardship. She currently serves as a coordinator of the Italian working group on optimising antibiotics' prescriptions for AIFA, the Italian Medicine Agency. She is a chief author of the ESCMID guidelines for the management and control of infections due to MDR-Gram negatives and the EUCIC guidelines for the decolonisation of MDR-gram negatives and surgical prophylaxis in colonised patients. For years she has participated and coordinated the European projects and networks focused on antimicrobial resistance. She is a leader and coordinator of ORCHESTRA - Connecting European Cohorts to Increase Common and Effective Response to SARS-CoV-2 Pandemic, a research project funded by the European Union's Horizon 2020 Programme aiming at applying an innovative approach to fight against COVID-19 and improve the management of future pandemics.

Fireplace Session 25 April, **14:30 - 15:30**

CM

SY144 **11:00 - 12:00** **Hall B**
Symposium

Beyond species ID: Innovative uses of MALDI-TOF in the clinical microbiology lab

Chairs *Jacob Moran-Gilad (Be'er Sheva, Israel)*
Antonella Lupetti (Pisa, Italy)

S0608 **11:00** **MALDI-TOF for AMR detection and outbreak tracking in the hospital setting**
Lucie Amoureux (Dijon, France)

S0609 **11:30** **Phenotype prediction using MALDI-TOF data and machine learning**
Adrian Egli (Basel, Switzerland)

ID

SY145 **11:00 - 12:00** **Hall C**
Symposium

Tuberculous meningitis

Chairs *Camilla Rodrigues (Mumbai, India)*
Reinout Van Crevel (Nijmegen, Netherlands)

S0610 **11:00** **Diagnosis and treatment of TB meningitis: what's new?**
Fiona Cresswell (Kampala, Uganda)

S0611 **11:30** **An update on the management of childhood TBM**
Ronald Van Toorn (Western Cape, South Africa)

Co-organised with: Trainee Association of ESCMID (TAE), European Society for Paediatric Infetious Diseases (ESPID)

PH

SY146 **11:00 - 12:00** **Hall E**
Symposium

Communicating COVID-19: fact and fiction

Chairs *Joel Mossong (Findel, Luxembourg)*
Jonas Sivelä (Helsinki, Finland)

S0612 **11:00** **Online activity in 2020-2021: what happened, and who was active?**
Francesco Gesualdo (Rome, Italy)

S0613 **11:30** **Communicating new vaccines: lessons learnt from listening online**
Bea Rofagha (Brussels, Belgium)

Co-organised with: ESCMID Vaccine Study Group (EVASG)

CM

SY147 **11:00 - 12:00** **Hall H**
Symposium

Using water to monitor circulating pathogens

Chairs *Ana R. Freitas (Porto, Portugal)*
Ed Feil (Bath, United Kingdom)

S0614 **11:00** **An interplay between antibiotics residues and antibiotic resistance genes in wastewater**
Katariina Pärnänen (Turku, Finland)

S0615 **11:30** **Sewage surveillance of antibiotic resistance: a complement to traditional clinical surveillance**
Joakim Larsson (Gothenburg, Sweden)

Co-organised with: ESCMID Study Group for Epidemiological Markers (ESGEM), ESCMID Food- and Water-borne Infections Study Group (EFWISG), Portuguese Society of Microbiology (SPM)

ID

SY148 **11:00 - 12:00** **Hall J**
Symposium

Prediction and prognosis of *Staphylococcus aureus* pneumonia

Chairs *Marc Stegger (Copenhagen, Denmark)*
Barbara C. Kahl (Münster, Germany)

S0616 **11:00** **Prognostic factors of severe community-acquired staphylococcal pneumonia**
Yves Gillet (Lyon, France)

S0617 **11:30** **Host and bacterial factors in the prevalence and outcome of severe *S. aureus* bacteremia and sepsis in the tropics**
Steven Tong (Surrey Hills, Australia)

Co-organised with: ESCMID Study Group for Staphylococci and Staphylococcal Diseases (ESGS), ESCMID Study Group for Respiratory viruses (ESGREV)

CM

SY149 **11:00 - 12:00** **Hall M**
Symposium

mecC MRSA: epidemiology and evolution

Chairs *Stefan Börjesson (Solna, Sweden)*
Patricia Poeta (Vila Real, Portugal)

S0618 **11:00** **Natural reservoirs of mecC MRSA**
Carmen Torres (Logroño, Spain)

S0619 **11:30** **mecC MRSA in hedgehogs predates the antibiotic era**
Jesper Larsen (Copenhagen, Denmark)

ID

SY150 **11:00 - 12:00** **Hall N**
Symposium

Top papers in mycology

Chairs *Justin Beardsley (Sydney, Australia)*
Angela Loyse (London, United Kingdom)

S0620 **11:00** **Advances in treatment and drug susceptibility**
Nelesh Govender (Johannesburg, South Africa)

S0621 **11:30** **Fungal pathogenesis and its application**
Mihai Gheorghe Netea (Nijmegen, Netherlands)

IC

SY151 **11:00 - 12:00** **Hall Q**
Symposium

Clostridioides difficile infection: importance of learning from patients experience

Chairs *Benoit Guery (Lausanne, Switzerland)*
Marcela Krutova (Prague, Czech Republic)

S0622 **11:00** **Letters from the Home Front: patient experiences of CDI and what they mean for CDI research**
Jane Freeman (Leeds, United Kingdom)

S0623 **11:30** **Involving patients in research for better outcomes**
Judith Strawbridge (Dublin, Ireland)

Co-organised with: ESCMID Study Group for Clostridioides difficile (ESGCD)

CM

SY152 **11:00 - 12:00** **Hall I**
1-Hour Symposium

Antimicrobial resistance and COVID-19: increase or decrease?

Chairs *Dominique Monnet (Stockholm, Sweden)*
Saskia Nahrgang (Copenhagen, Denmark)

S0624 **11:00** **Antimicrobial resistance, antimicrobial use and COVID-19: an intensive care perspective**
Jose Artur Paiva (Porto, Portugal)

S0625 **11:30** **Antimicrobial resistance, antimicrobial use and COVID-19: a cross-healthcare perspective**
Alison Helen Holmes (London, United Kingdom)

Co-organised with: European Centre for Disease Prevention and Control (ECDC)

OS153 **11:00 - 12:00** **Hall F**
1-Hour Oral Session

Novel observations in protective host responses to infection

Chairs *Michael G. Ison (Chicago, United States)*
Nina Khanna (Basel, Switzerland)

O0626 **A D-glutamate auxotrophic *Pseudomonas aeruginosa* strain confers protection against acute and chronic lung infection in C57Bl/6 mice**
V. Fuentes Valverde (A Coruña, Spain), P. García, M. Moscoso, M.C. Póvoa Cabral, G. Bou*

O0627 **First *Plasmodium vivax* malaria vaccine candidate to show *in vivo* efficacy against a blood-stage *P. vivax* controlled human malaria challenge in UK adults**
M. Hou (Oxford, United Kingdom), J.R. Barrett, S.E. Silk, C.M. Nielsen, A. Lias, N.J. Edwards, N. Greenwood, Y. Themistocleous, T. Rawlinson, F. Ramos Lopez, L. Kingham-Page, J.S. Cho, F.L. Nugent, A.M. Lawrie, P. Mukherjee, V.S. Chauhan, F. Martinez, M. Guilotte-Blisnick, J.M. Reimer, C.E. Chitnis, S.J. Draper, A.M. Minassian*

O0628 **Trained immunity confers long-term protection from lethal sepsis**
T. Roger (Epalinges, Switzerland), E. Ciarlo, T. Heinonen, C. Theroude, M. Reverte, C. Gilbert, D. Le Roy*

O0629 **A polyclonal antibody against the OmpA-like protein BCAL2645 impairs *Burkholderia cenocepacia* ability to adhere and invade human epithelial cells *in vitro***
A.M.M. Seixas (Lisbon, Portugal), S.A. Sousa, J.R. Feliciano, S.C. Gomes, M.R. Ferreira, L.M. Moreira, J.H. Leitão*

O0630 **Real-world effectiveness of tick-borne encephalitis (TBE) vaccination: an available prevention against TBE for travelers to endemic areas**
S. Pugh (New York, United States), J. Moisi, M. Kundi, I. Santonja, W. Erber, F. Angulo, L. Jodar*

OS154 **11:00 - 12:00** **Hall G**
1-Hour Oral Session

Novel combinations with potential to treat highly resistant pathogens

Chairs *Kai Zhou (Tianjin, China)*
Elisabet Nielsen (Uppsala, Sweden)

O0631 **Experimental evolution informed dose optimisation of polymyxin-rifampicin combination against multidrug-resistant *Acinetobacter baumannii*: a semi-mechanistic PK/PD modelling approach**
J. Zhao (Melbourne, Australia), Y. Zhu, M.L. Han, H. Yu, H. Wickremasinghe, T. Velkov, Y.W. Lin, J. Li*

O0632 **Study of bacteriophage-antibiotic combinations against a MDR clinical *K.pneumoniae* strain**
A. Senhaji (Madrid, Spain), A. Senhaji-Kacha, M. Seoane-Blanco, P. Sánchez-Soriano, M. J. Van Raaij, J. Esteban, M. García-Quintanilla*

O0633 **Assessment of flomoxef and amikacin in a hollow-fibre infection model for the potential empiric treatment of neonatal sepsis in low- and middle-income settings**
C. Darlow (Liverpool, United Kingdom), N. Farrington, A. Johnson, L. Mcentee, J. Unsworth, A. Jimenez-Valverde, B. Jagota, R. Kolamunnage-Dona, R. Da Costa, S. Ellis, F. Franceschi, M.N. Neely, L.J.V. Piddock, M. Sharland, D. Shampa, W. Hope*

O0634 **Inhaled aztreonam and tobramycin dosing regimens against hypermutable cystic fibrosis *Pseudomonas aeruginosa* isolates in a dynamic *in vitro* biofilm model**
S.K. Breen (Parkville, Australia), K.E. Rogers, W.L. Lee, J.R. Tait, Y. Lang, J. Zhou, J.B. Bulitta, R.L. Nation, C.B. Landersdorfer*

O0635 ***In vitro* synergy with colistin in combination with meropenem and avibactam against KPC-2- and OXA-48-producing *Klebsiella pneumoniae* with porin deficiency**
L. Allander (Uppsala, Sweden), T. Söderhäll, P. Lagerbäck, L. Sandegren, T. Tängdén*

OS155 **11:00 - 12:00** **Hall O**

1-Hour Oral Session

Transmission and persistence of *Klebsiella* spp.

Chairs *Alessandra Bandera (Milano, Italy)*
Teresa M. Coque (Madrid, Spain)

00636 **The plasmid-borne virulence factor aerobactin (lineage *iuc3*) is strongly associated with isolates of *Klebsiella pneumoniae* from pigs and ducks.**
M. Gibbon (Bath, United Kingdom), N. Couto, K. Cozens, A. Coates, D. Thiry, S. Breurec, S. Brisse, E. Feil*

00637 **Dynamics of *Klebsiella* species in a high-risk hospital ward: the role of the built environment in the transmission and persistence of clones and multidrug resistant plasmids**
N. Guerra Pinto (Madrid, Spain), S. Aracil-Gisbert, M.D. Fernández-De-Bobadilla, V.F. Lanza, R. Cantón, C. Soriano, G. Narváez, V. Quinteros-Fiel, M. López-Olivencia, R. De Pablo, F. Baquero, T.M. Coque*

00638 **Clinical factors, gut microbiome and circulating host immunity in patients with colonisation and infection from *Klebsiella pneumoniae*-carbapenemase (KPC)-producing *Klebsiella pneumoniae***
D. Mangioni (Milan, Italy), A. Facoetti, L. Lambroia, A. Liparoti, M. Rossi, M. Casana, V. Costabile, P. Bonfanti, P. Morelli, C. Alteri, B. Cassani, B. Bottazzi, A. Gori, A. Muscatello, A. Bandera*

00639 **Gut colonisation with multidrug-resistant *Klebsiella pneumoniae* worsens *Pseudomonas aeruginosa* lung infection**
R. Le Guern (Lille, France), T. Grandjean, S. Stabler, M. Bauduin, P. Gosset, E. Kipnis, R. Dessein*

00640 **Type VI secretion system in *K. pneumoniae*: role in intestinal microbiota colonisation**
T. Merciecca (Clermont-Ferrand, France), L. Nakusi, S. Bornes, S. Theil, O. Rendueles-Garcia, E. Cascales, C. Forestier, S. Miquel*

OS156 **11:00 - 12:00** **Hall D**

1-Hour Case Session

Management of difficult-to-treat antibiotic-resistant cases

Chair *Rafael Canton (Madrid, Spain)*

00641 **Compassionate use of novel nebulised reactive oxygen (RO) spray as adjunctive therapy in the management of multidrug-resistant pseudomonas infection of the parapharynx, mediastinum and pleural cavity**
A. Shahi (Winchester, United Kingdom), J. Champion, E. Hammond, S. Wimbush, M. Dryden*

00642 **Recurrent bacteraemia due to meropenem-resistant *Campylobacter coli*: antimicrobial profile and molecular characterisation**
M. Bonilla (Barcelona, Spain), A. González-Díaz, J. Laporte-Amargos, F. Tubau, C. Gudiol, M.A. Domínguez, C. Ardanuy, M. Torrecillas*

00643 ***In vivo* development of fluoroquinolone and rifamycin resistance in prolonged *Elizabethkingia meningoseptica* bloodstream infection**
A. Stewart (Brisbane, Australia), J. Roberts, B. Forde, H. Bergh, T. Kidd, H. Wright, P. Harris*

00644 **Multidrug-resistant *Klebsiella africana* as causative pathogen of respiratory tract superinfection in a severe case of COVID-19 in Bogotá, Colombia**
J. Urrego (Bogotá, Colombia), E.D. Ibáñez-Prada, C.C. Serrano-Mayorga, Y.V. Fuentes-Barreiro, I.G. Bustos-Moya, E. Gamboa-Silva, D.F. Josa-Montero, J. Hawkey, K. Wyres, A.J. Stewardson, J. Urrego-Reyes, C.C. Beltran, S. Leon, L.F. Reyes*

00645 **Cefiderocol as a rescue treatment for nosocomial infections due to carbapenem-resistant Acinetobacter baumannii complex**
B. Leal De Almeida (São Paulo, Brazil), C. Sunaitis Donini, L. Nunes De Almeida Gouveia, L. Bubach Carvalho, M. Bordignon Antonio, L. Abrahão Hajjar, J.L. Mello Sampaio, E. Georges Kallas, M.L. Do Nascimento Moura*

OF157 **11:00 - 12:00** **Hall K**

1-Hour Mini-oral Flash Session

Diagnostics in clinical and scientific parasitology

Chairs *Sarah Delliere (Paris, France)*
Marjan Van Esbroeck (Antwerp, Belgium)

00646 **Performances of ICT toxoplasma IgG-IgM test in comparison with vidas toxo competition to determine the immune status of patients against *Toxoplasma gondii***
H. Sandrine (Paris, France), S. Abraham, R. Mcleod, N. Houhou-Fidouh, R. Piarroux, P. Niçaise-Rolland, L. Landraud, S. Houze*

00647 **Cytokine production in congenital toxoplasmosis**
V.M.V. Meroni (Pavia, Italy), C. Agrati, V. Bordoni, A. Vola, G. Ferrari, L. Bollani, G. Ippolito*

00648 **Congenital toxoplasmosis: outcomes of newborns from mothers with documented seroconversion out of a multi-centre cohort in two tertiary referral hospitals**
A. Bonetti (Pavia, Italy), A. Comelli, A. Chiesa, V. Spinoni, A. Vola, F. Prefumo, A. Valcamonico, C. Bonfanti, S. Caligaris, V. Meroni, L.R. Tomasoni*

00649 **Monitoring *Plasmodium falciparum* gene copy numbers associated with resistance to partner drugs included in artemisinin-based combination regimens in The Gambia**
H. Brazal Monzó (Murcia, Spain), H. Brazal Monzo, M. Oboh, E. Oriero, A. Ngwa*

00650 **Accuracy of an immunochromatographic test for detection of *Strongyloides stercoralis* infection in migrants from sub-Saharan Africa**
D. Buonfrate (Verona, Italy), F. Tamarozzi, S. Longoni, C. Mazzi, R. Noordin*

00651 **Elucidating the role of the skin microbiome in human attractiveness to mosquitoes**
A. Showering (London, United Kingdom), J. Logan, R. Allen*

00652 **Assessment of malaria diagnostic methods based on loop-mediated isothermal amplification assays in Spain**
A. Martin Ramírez (Madrid, Spain), A. Martín Ramírez, M. Lanza Suárez, J.M. Rubio Muñoz*

00653 **Association of HLA-B*35 and moderate or severe cutaneous reactions secondary to benznidazole treatment in chronic Chagas disease patients**
P. Bosch-Nicolau (Barcelona, Spain), F. Salvador, A. Sánchez-Montalvá, C. Franco-Jarava, I. Arrese-Muñoz, E. Sulleiro, S. Roura, L. Valerio, I. Oliveira-Souto, N. Serre-Delcor, D. Pou, B. Treviño, M.L. Aznar, J. Espinosa-Pereiro, I. Molina*

00654 **Benefits and limitations of next-generation sequencing-based metabarcoding for detection and differentiation of intestinal parasites in diagnostic, research, and One Health settings**
H.V. Nielsen (Copenhagen, Denmark), C.R. Stensvold, R.P.K.D. Berg, P. Jokelainen, L.O. Andersen*

00660 **Setting the terms for zoonotic diseases: effective communication for research, conservation, and public policy**
J.T. Shapiro (Be'er Sheva, Israel), L. Víquez-R, S. Leopardi, A. Vicente-Santos, I.H. Mendenhall, W.F. Frick, R.C. Kading, R.A. Medellín, P. Racey, T. Kingston*

00661 **Epidemiology and spectrum of predisposing conditions of progressive multifocal leukoencephalopathy: a French nationwide population-based study**
G. Martin-Blondel (Bethesda, United States), M. Joly, C. Conte, C. Cazanave, V. Le Moing, P. Tattevin, P. Delobel, A. Sommet*

00662 **Orthohepevirus C infection as an emerging cause of acute hepatitis**
A. Rivero-Juarez (Cordoba, Spain), M. Frias, A.B. Perez, J.A. Pineda, G. Reina, A. Fuentes-Lopez, C. Freyre, E. Ramirez-Arellano, J.C. Alados, A. Rivero*

00663 **Mortality in tick-borne encephalitis and other reportable zoonotic infectious diseases in Sweden**
R. Varnaite (Stockholm, Sweden), S. Gredmark-Russ, J. Klingström*

OF158 **11:00 - 12:00** **Hall L**
1-Hour Mini-oral Flash Session
Virus surveillance across different settings

Chairs *Michael Kann (Gothenburg, Sweden)*
Anna Papa-Konidari (Thessaloniki, Greece)

00655 **Risk of measles outbreak among children of local population posed by Afghan nomadic refugees in rural areas of Islamabad**
H. Ali (Islamabad, Pakistan)*

00656 **High-risk human papillomavirus (hrHPV) genotype-specific viral load in women with persistent infection**
C. Giubbi (Monza, Italy), M. Martinelli, I. Vallini, R. Musumeci, I. Monticciolo, F. Perdoni, S. Volonté, M.L. Di Meo, R. Fruscio, F. Landoni, C.E. Cocuzza*

00657 **Analysis of hepatic fibrosis biomarkers in serum according to the basal core promoter/precore mutations of hepatitis B virus**
C. Lefeuvre (Angers, France), M. Roux, S. Blanchard, H. Le Guillou-Guillemette, J. Boursier, F. Lunel-Fabiani, P. Jeannin, A. Pivert, A. Ducancelle*

00658 **Serological characterisation and molecular analysis of measles breakthrough cases in Milan, northern Italy (2017-2021)**
C. Fappani (Milan, Italy), M. Gori, S. Bianchi, G. Ciceri, M. Dura, D. Colzani, E. Tanzi, A. Amendola*

00659 **Adult T cell leukaemia/lymphoma in French Guiana: real-life data from 2009 to 2019**
K. Abdelmoumen (Saint-Denis, Réunion), K.D. Alsibai, F. Santa, M. Nacher, J.M. Cauvin, N.B. Wankpo, P. Naudion, C. Misslin-Tritsch, F. Djossou, A. Gessain, L. Galicier, O. Hermine, J.P. Droz, P. Couppié, L. Epelboin*

OF159 **11:00 - 12:00** **Hall P**
1-Hour Mini-oral Flash Session
Predictors of disease severity and mortality in COVID-19

Chairs *Nathan Peiffer-Smadja (Paris, France)*
Willem Joost Wiersinga (Amsterdam, Netherlands)

00663A **COVID-19 treatment and outcomes in over 500,000 hospitalised patients in the United States: May 2020-June 2021**
L. Chen (Foster City, United States), A. Chandak, R.L. Gottlieb, P.E. Sax, D.A. Wohl, M. Thrun, E. Mozaffari, P. Hodgkins, R. Gupta, R. Haubrich*

00664 **Ethnicity, migration status, country of birth, and outcomes from COVID-19 in hospitalised patients in Quebec, Canada**
C. Greenaway (Montreal, Canada), A.M. Passos-Castilho, A.C. Labbé, S. Barkati, M.L. Luong, M.A. Tutt-Guérette, J. Kierans, C. Rousseau, A. Benedetti, L. Azoulay*

00665 **Clinically relevant viremia pattern as a poor prognostic marker in COVID-19 patients: prospective study and validation cohort**
N.D. Zurita-Cruz (Madrid, Spain), L. Cardeñoso-Domingo, E. Roy-Vallejo, L. Fontán-García Rodrigo, I. García Arata, E. Navarro-Lara, V.B. Valdéz-Blanco, I. González-Álvaro, R. De La Cámara, D.A. Rodríguez-Serrano*

00666 **Predictors of survival in elderly patients with COVID-19 admitted to the hospital: an observational multi-centre study from ESGIE**
M. Falcone (Pisa, Italy), G. Tiseo, I. Margalit, N. Riccardi, M. Tinelli, V. Borghi, H. Green, M. Ripa, C. Mussini, V. Prendki, A. Castagna, D. Yahav*

O0667 **A single-centre retrospective observational study on the accuracy of the MuLBSTA score in predicting mortality among COVID-19 confirmed moderate to critical cases**
M.C.J. Poblete (San Juan, Philippines), E.N. Adamos*

O0668 **High sera levels of SARS-CoV-2 N-antigen is associated with ICU or death in hospitalised COVID-19 patients**
B. Visseaux (Paris, France), H.R. Chenane, R. Menidjel, S. Lebourgeois, C. Laouenan, S. Tubiana, D. Descamps, L. Abel, J. Guedj, S. Malhotra, S. Kumar-Singh, J. Ghosn*

O0669 **Local NETosis and systemic inflammation and complement activation predicts clinical outcome of severe SARS-CoV-2 infections**
R. Würzner (Innsbruck, Austria), S. Huber, M. Massri, G. Rambach, C. Speth*

O0670 **SARS-CoV-2 nasopharyngeal viral load at admission correlates to disease severity in adults hospitalised for COVID-19**
K. Hagman (Stockholm, Sweden), M. Hedenstierna, J. Oesman, E. Arvidsson, P. Gille-Johnson, L. Grillner, J. Jakobsson, J. Ursing*

O0671 **RT-PCR CT values with age could predict invasive mechanical ventilation and mortality in hospitalised COVID-19 patients in a MERS-CoV-endemic country**
L. Akkielah (Riyadh, Saudi Arabia), M. Barry, T. Muayqil*

VW160 **11:00 - 12:00** **Arena 1**
Virtual Walk Through

Lessons learned: will COVID-19 change IPC's daily work?

Moderator *Nasia Safdar (Madison, United States)*
Reviewer *Walter Zingg (Zurich, Switzerland)*

CM

SY161 **13:30 - 15:30** **Hall B**
Symposium

The role of genomics in AMR surveillance

Chairs *Koji Yahara (Tokyo, Japan)*
Nicholas Feasey (Blantyre, Malawi)

S0672 **13:30** **Genomics for AMR surveillance in invasive bacterial infections: add-on or a leapfrog technology?**
Anders Dalsgaard (Copenhagen, Denmark)

S0673 **14:00** **Genomic surveillance and the detection of new and emerging AMR mechanisms**
Senjuti Saha (Dhaka, Bangladesh)

S0674 **14:30** **Genomic surveillance and microevolutionary changes with new resistance development in MDR *Micobacterium tuberculosis***
Josefina Campos (Buenos Aires, Argentina)

S0675 **15:00** **Genomic epidemiology reveals cross-border spread of *bla*OXA-48 and *bla*NDM-1 producing *Klebsiella pneumoniae***
Erik Alm (Solna, Sweden)

IC

SY162 **13:30 - 14:30** **Hall E**
Symposium

Year in Infection Control

Chairs *Yehuda Carmeli (Tel Aviv, Israel)*
Daniel Diekema (Iowa City, United States)

S0676 **13:30** *Stephanie J. Dancer (Glasgow, United Kingdom)*
S0677 **14:00** *Esther Calbo (Terrassa, Spain)*

ID

SY163 **13:30 - 14:30** **Hall I**
Symposium

Recent top papers in transplant ID and haem/onc ID

Chairs *Effrossyni Gkrania-Klotsas (Cambridge, United Kingdom)*
Per Ljungman (Stockholm, Sweden)

S0678 **13:30** **SOT-ID**
David Van Duin (Chapel Hill, United States)

S0679 **14:00** **haem/onc ID**
Carlota Gudiol (Barcelona, Spain)

ID

EW164 **13:30 - 15:30** **Hall C**
Educational Workshop

Antifungal prophylaxis in transplantation: a benefit for which patients?

Chairs *Paolo Antonio Grossi (Varese, Italy)*
Francisco López-Medrano (Madrid, Spain)

W0680 **13:30** **Fungal infection in transplant patients: Where are we now?**
Maja Weisser Rohacek (Basel, Switzerland)

W0681 **14:00** **Perspectives for the improved management of invasive mould infections**
Johan Maertens (Leuven, Belgium)

W0682 **14:30** **Universal vs patient risk driven prophylaxis in lung transplant recipients**
Shahid Husain (Toronto, Canada)

Co-organised with: ESCMID Study Group for Immunocompromised Hosts (ESGICH), International Immunocompromised Host Society (ICHS)

PH

EW165 **13:30 - 15:30** **Hall F**
Educational Workshop

Changing world of infectious diseases: urbanisation and digitalisation

Chairs *Maria Koliou (Nicosia, Cyprus)*
Maria Eugenia Gutierrez Pimentel (David, Panama)

W0683 **13:30** **Infectious diseases and globalised urbanisation**
Lone Simonsen (Roskilde, Denmark)

W0684 **14:00** **Implementing an innovative integrated multi-infection screening digital decision support tool (IS-MiHealth)**
Ana Requena-Méndez (Stockholm, Sweden)

W0685 **14:30** **Health Catch-UP!: digital innovations to strengthen multi-disease screening and catch-up vaccination in at-risk migrants**
Lucy Pollyanna Goldsmith (London, United Kingdom)

Co-organised with: ESCMID Study Group for Infections in Travellers and Migrants (ESGITM), ESCMID International Affairs Subcommittee (EIAS)

CM

EW166 **13:30 - 15:30** **Hall G**
Educational Workshop

Antimicrobial tolerance in pathogens: bench to bedside

Chairs *Priscille Brodin (Lille, France)*
Annelies Zinkernagel (Zurich, Switzerland)

W0686 **13:30** **Bacterial replication and bioenergetics in antibiotic lethality and treatment-shortening activity**
Martin Voskuil (Aurora, United States)

W0687 **14:00** **Mechanisms of antimicrobial tolerance**
Urs Jenal (Basel, Switzerland)

W0688 **14:30** **Clinical implications of tolerance**
Jacob Strahilevitz (Jerusalem, Israel)

OS167 **13:30 - 14:30** **Hall J**
1-Hour Oral Session

Real-life COVID-19 vaccine effectiveness

Chairs *Silvio Daniel Brugger (Zurich, Switzerland)*
Önder Ergönül (Istanbul, Turkey)

O0689 **Epidemiology of community-acquired COVID-19 infection requiring hospitalisation in an Irish university hospital; fourth wave experience**
P. McGettrick (Galway, Ireland), C. Lannon, S. Stroiescu, J. Hynes, A. Holmes, D. Gallagher, H. Tuite, B. Mcnicholas, M. Harrison, J. Sheehan, C. Fleming*

O0690 **Characteristics of SARS-CoV-2 vaccinated versus unvaccinated patients admitted to Careggi University Hospital**
R. Paggi (Florence, Italy), A. Barbiero, T. Manciulli, A. Miftode, M. Tilli, F. Lagi, J. Mencarini, M. Spinicci, A. Morettini, L. Zammarchi, A. Bartoloni*

O0691 **COVID-19 cases after SARS-CoV-2 vaccination in an French university-affiliated hospital: a descriptive study**
C. Dananché (Lyon, France), S. Amour, N. Romain-Scelle, C. Del Signore, A. Bal, F. Morfin, P. Vanhems*

O0692 **Impact of SARS-CoV-2 vaccination on mortality of hospitalised COVID-19 patients: a case-control study**
C. Cardozo (Barcelona, Spain), R. Alonso, C. Emma, I. Armenteros, F.J. Bernal, M. De Pablo, I. Zugasti, V. Guerra, V. Rico, N. García-Pouton, M.A. Marcos, A. Soriano*

O0693 **Risk factors associated with hospitalisation and death in COVID-19 breakthrough infections**
G. Suleyman (Detroit, United States), F. Fadel, I. Brar, R. Kassab, R. Khansa, N. Sturla, A. Alsaadi, K. Latack, J. Miller, R. Tibbetts, L. Samuel, G. Alangaden, M. Ramesh*

OS168 **13:30 - 14:30** **Hall D**
1-Hour Case Session

Complicated endovascular infections

Chair *Helen Giamarellou (Athens, Greece)*

O0694 ***Mycobacterium bovis* infection of vascular grafts following BCG immunotherapy: a case report and review of literature**
S. Arsuffi (Brescia, Italy), A. Cambianica, D. Ripamonti, E. Di Filippo, M. Rizzi*

O0695 **Use of dalbavancin as sequential treatment in complex cardiovascular infections: real-life experience**
M. Meschiari (Modena, Italy), A. Santoro, E. Franceschini, A. Cervo, G. Orlando, A. Bedini, M. Menozzi, M. Digaetano, M. Faltoni, C. Mussini*

O0696 **Daptomycin and ceftarolin combination therapy in complicated endovascular infections caused by coagulase-negative staphylococci: a case series**
S. Policarpo (Porto, Portugal), R. Duro, A. Sarmento*

O0697 **A contemporary series of *Pseudomonas aeruginosa* infective endocarditis**
A. Walczak (Brisbane, Australia), K. Mccarthy, D. Paterson*

O0698 **An under-reported complication of vascular surgery: two cases of periprosthetic *Actinomyces odontolyticus* infection**
G. Del Fabro (Brescia, Italy), D. Bertelli, E. Van Hauwermeiren, P. Lanza, S. Lorenzotti, B. Saccani, B. Fumarola, A. Mulè, D. Laurenda, M. Migliorati, A. Matteelli, L. Signorini*

OF169 **13:30 - 14:30** **Hall H**

1-Hour Mini-oral Flash Session

Community-acquired central nervous system infections

Chairs *Fiona McGill (Leeds, United Kingdom)*
Marco Oggioni (Bologna, Italy)

00699 **Invasive procedures and risk of brain abscess: a nationwide, population-based case control study**
L.H. Omland (Copenhagen, Denmark), J. Bodilsen, J. Helweg-Larsen, J.O. Jarløv, K. Andreasen, M. Ziebell, S. Ellermann-Eriksen, U.S. Justesen, N. Frimodt-Møller, N. Obel*

00700 **Socioeconomic functioning in patients with brain abscess: a nationwide, population-based cohort study in Denmark**
L.H. Omland (Copenhagen, Denmark), J. Bodilsen, J. Helweg-Larsen, J.O. Jarløv, Z. Morten, S. Ellermann-Eriksen, U.S. Justesen, N. Frimodt-Møller, N. Obel*

00701 **Group B *streptococcus* recurrent neonatal invasive infections: a retrospective study between 2008 and 2020 in France**
A. Tazi (Paris, France), G. Sbaa, C. Plainvert, G. Touak, N. Dmytruk, C. Poyart*

00702 **Seizures in adults with suspected central nervous system infection**
S. Olie (Amsterdam, Netherlands), L. Ter Horst, I. Van Zeggeren, D. Van De Beek, M. Brouwer*

00703 **Apoptosis in the hippocampus and long-term cognitive loss in experimental neurolisteriosis**
P. Dumez (Bern, Switzerland), D. Grandgirard, S.L. Leib*

00704 **Epidemiology and clinical characteristics of community-acquired meningococcal meningitis in adults**
T.M. Van Soest (Amsterdam, Netherlands), N. Chekrouni, N.M. Van Sorge, M.C. Brouwer, D. Van De Beek*

00705 **Cerebrospinal fluid neurofilament light chain concentrations predict unfavourable outcome in community-acquired bacterial meningitis**
N. Chekrouni (Amsterdam, Netherlands), T. Van Soest, M. Brouwer, E. Willemse, C. Teunissen, D. Van De Beek*

00706 **Adjuvant maraviroc exerts broad neuroprotection in acute experimental pneumococcal meningitis**
N.D. Le (Bern, Switzerland), M. Steinfort, D. Grandgirard, S.L. Leib*

00707 **Diagnosis of Lyme neuroborreliosis: what is the diagnostic value of serum *Borrelia burgdorferi* antibodies?**
M. Tetens (Copenhagen, Denmark), R. Dessau, C. Jørgensen, J. Bodilsen, J. Møller, S. Ellermann-Eriksen, J. Bangsborg, N.S. Andersen, C. Østergaard, M. Chen, A.C. Nielsen, L.H. Omland, N. Obel, A.M. Lebech*

OF170 **13:30 - 14:30** **Hall K**

1-Hour Mini-oral Flash Session

Potential diagnostic tools for monitoring hepatotropic infections

Chairs *Robert Flisiak (Bialystok, Poland)*
Adriana Vince (Zagreb, Croatia)

00708 **Viral quasispecies diversity of hepatitis B among serum, oral fluid and dried blood spot samples**
L.M. Villar (Rio de Janeiro, Brazil), R. Pessoa, S. Sanabani, C.S. Bezerra, M.M. Portilho, B.V. Lago*

00709 **Hepatitis C virus fitness can influence the extent of infection-mediated epigenetic modifications in the host cells**
C. García-Crespo (Madrid, Spain), I. Francisco-Recuero, I. Gallego, M. Camblor, M.E. Soria, A. López, A.I. De Ávila, A. Madejón, J. García-Samaniego, E. Domingo, A. Sánchez-Pacheco, C. Perales*

00710 **Impact of HCV elimination in HIV infected patients on oxidative stress-related biomarkers**
V. Lara-Aguilar (Majadahonda, Spain), D. Valle-Millares, M.E. Cortijo-Alfonso, C. Crespo-Bermejo, L. Martín-Carbonero, L. Domínguez, P. Ryan, I. De Los Santos, V. Briz, A. Fernández-Rodríguez*

00711 **Identifying potential gene expression biomarkers in the peripheral blood mononuclear cells of hepatitis B related hepatocellular carcinoma: a RNA-sequencing-based study**
V. Poortahmasebi (Tabriz, Iran, Islamic Republic of), A. Nejati, M. Foad Abazari, M. Nasiritoosi, A. Ghaziasadi, N. Mohammadzadeh, A. Tavakoli, A. Khamseh, N. Momenifar, O. Gholizadeh, M. Norouzi, S.M. Jazayeri*

00712 **Evaluation of pregenomic HBV RNA for monitoring chronic hepatitis B virus infection**
G. Roncarati (Bologna, Italy), S. Galli, T. Ferniani, A. Moroni, T. Lazzarotto*

00713 **Comparison between pgRNA and HBcrAg to correctly identify the patients with HBeAg-negative chronic hepatitis B**
G. Roncarati (Bologna, Italy), S. Galli, T. Ferniani, A. Moroni, T. Lazzarotto*

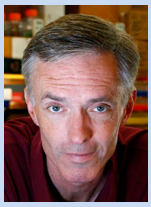
00714 **The effect of treatment-induced viral eradication on cytokine and growth factor expression in chronic hepatitis C**
L. Radmanic (Zagreb, Croatia), K. Bodulic, P. Simicic, A. Vince, P. Korac, S. Zidovec Lepej*

00715 **Plasma levels of soluble markers of immune "exhaustion" sPD-1 and sTim-3 in patients with chronic hepatitis C: effect of liver fibrosis and successful treatment**
K. Caraballo Cortés (Warsaw, Poland), S. Osuch, T. Laskus, M. Kruk, A. Pawelczyk, H. Berak, M. Radkowski*

O0716 **Long-term course of liver fibrosis in HCV-monoinfected and HCV/HIV co-infected patients following direct-acting antiviral agents therapy**
V. Asensi (Oviedo, Spain), L. Perez-Is, J. Collazos, B. De La Fuente, L. Morano, M. Rivas-Carmenado, M. Rodriguez, A. Romero-Favela, G.D.J. Fonseca–González, S. Melón, E. Valle-Garay*

PH

KN171 **14:45 - 15:45** **Hall A**
Keynote lecture



Harnessing deep learning and synthetic biology to fight pathogens
Chairs
Kendra Rumbaugh (Lubbock, United States)
Tom Coenye (Ghent, Belgium)
K0717 14:45
James Collins (Cambridge, United States)

Jim Collins is the Termeer Professor of Medical Engineering & Science and Professor of Biological Engineering at MIT, as well as a Member of the Harvard-MIT Health Sciences & Technology Faculty. He is also a Core Founding Faculty member of the Wyss Institute for Biologically Inspired Engineering at Harvard University, and an Institute Member of the Broad Institute of MIT and Harvard. He is one of the founders of the field of synthetic biology, and his research group is currently focused on using synthetic biology to create next-generation diagnostics and therapeutics. Prof. Collins' patented technologies have been licensed by over 25 biotech, pharma and medical device companies, and he has co-founded a number of companies, including Synlogic, Senti Biosciences, Sherlock Biosciences and Cellarity, as well as Phare Bio, a non-profit focused on AI-driven antibiotic discovery. He has received numerous awards and honors, including a Rhodes Scholarship and a MacArthur "Genius" Award, and he is an elected member of all three national academies - the National Academy of Sciences, the National Academy of Engineering, and the National Academy of Medicine.

Co-organised with: ESCMID Study Group for Biofilms (ESGB)

Fireplace Session 25 April, **16:15 - 17:15**

IC

SY172 **14:45 - 15:45** **Hall E**
Symposium
AI in infectious disease management and control

Chairs *Carolina Garcia-Vidal (Barcelona, Spain)*
Hiroshi Yotsuyanagi (Tokyo, Japan)

S0718 **14:45** **Machine learning for improved diagnosis of infections**
Melis Anahtar (Cambridge, United States)

S0719 **15:15** **AI for improved sepsis management**
Paul Elbers (Amsterdam, Netherlands)

Co-organised with: Japanese Association Infectious Disease (JAID)

PH

SY173 **14:45 - 15:45** **Hall I**
Symposium
Does AMR mitigation in LMICs require technical capacity more than funding?

Chairs *Robert Leo Skov (Copenhagen, Denmark)*
Ghada Zoubiane (Basel, Switzerland)

S0720 **14:45** **Building human technical capacity to mitigate AMR in LMICs**
Mirfin Mpundu (Harare, Zimbabwe)

S0721 **15:15** **Development funding is critical for the implementation of national action plans on AMR in LMICs**
Haileyesus Getahun (Geneva, Switzerland)

Co-organised with: International Centre for Antimicrobial Resistance Solutions (ICARS), World Health Organization (WHO)

OS174 **14:45 - 15:45** **Hall J**
1-Hour Oral Session
Secondary infections in COVID-19

Chairs *Ronen Ben-Ami (Tel Aviv, Israel)*
Paul Eduard Verweij (Nijmegen, Netherlands)

O0723 **Carbapenem-resistant Enterobacterales infections in hospitalised patients with COVID-19: an Italian multi-centre observational cohort study (CREVID study)**
M. Falcone (Pisa, Italy), L.R. Suardi, G. Tiseo, V. Galfo, S. Verdenelli, M. Venditti, G. Ceccarelli, S. Carbonara, M. Poli, M. Puoti, M. Merli, A. Saracino, D.F. Bavaro, T.A. Santantonio, A. Carretta, G. Nunnari, E. Venanzi Rullo, A. Cascio, C. Torti, V. Scaglione, D. Francisci, C. Papalini, A. Franco, R. Fontana Del Vecchio, R. Punzi, V. Bianco, F. Menichetti*

O0726 **COVID-19 associated aspergillosis among paediatric cancer patients**
R. Khedr (Cairo, Egypt), Y. Madney, L. Shalaby, M. Hammad, M. Gaber, R. Hassan, I. Abdo, A. Zaki*

O0722 **Is COVID-19 associated pulmonary aspergillosis (CAPA) a myth? Frequency of *Aspergillus* detection from respiratory samples in intensive care unit patients with and without COVID-19**
J. Held (Erlangen, Germany), T. Kümmig, J. Esse, L. Herbst, R. Strauß, I. Castellanos, W. Geißdörfer, S. Mihai, N. Rakova, D. Pflaum, M. Werblow, A.K. Lang, F. Bremer, M. Ganslmayer, C. Willam*

00724 **Secondary bacterial and fungal infections among critically ill COVID-19 adult patients at a high-influx COVID-19 intensive care unit: first experiences from Hungary**
B.G. Szabo (Budapest, Hungary), E. Czel, B. Lakatos, B. Petrik, I. Nagy, I. Bobek, J. Sinko*

00725 **Digestive and oropharyngeal *Enterococcus* spp. and *Candida* spp. concentrations are associated with mortality in patients with COVID-19 in intensive care unit**
K. Villageois-Tran (Clichy, France), J. Patrier, P. Szychowiak, S. Ruckly, R. Gschwind, P.H. Wicky, S. Gueye, L. Armand-Lefevre, M. Marzouk, F. Lamara, E. De Montmollin, J.F. Timsit, E. Ruppé*

OS175 **14:45 - 15:45** **Hall D**
1-Hour Case Session
Invasive fungal infections in the immunocompromised

Chair *Murat Akova (Ankara, Turkey)*

00727 **Invasive fungal disease caused by *Paecilomyces* spp. in patients with haematological disorders**
Y. Rogacheva (Saint Petersburg, Russian Federation), V. Markelov, M. Popova, A. Volkova, I. Nikolaev, O. Pinegina, S. Ignatieva, T. Bogomolova, S. Bondarenko, L. Zubarovskaya, N. Klimko, A. Kulagin*

00728 ***Microsphaeropsis arundinis*: an emerging opportunistic infection in the transplant and immunocompromised patient**
J. Hernandez Jimenez (Palm City, United States), M.L. Huff, L. Cardona Bonet, M. Ramgopal*

00729 **Fungaemia caused by *C. haemulonii* complex and related yeasts: a series of cases in France from 2002 to 2021**
U. Françoise (Les Lilas, France), M. Desnos-Ollivier, M. Demar, K. Boukris-Sitbon, N. Desbois-Nogard, O. Lortholary*

00730 **Chronic meningoencephalitis caused by *Fusarium proliferatum*: an unusual case**
I. Alavi Darazam (Tehran, Iran, Islamic Republic of), G. Sharifi, E. Jamali, S. Khodavaisy, F. Javandoust Gharebagh, A. Hakamifard*

00731 **Breakthrough invasive mould infections (bIMIs) with isavuconazole prophylaxis in patients with haematopoietic cell transplants or haematologic malignancies: a case series**
A. Khatri (Miami, United States), A. Anderson, R. Jabr, J. Camargo, M. Morris, Y. Natori, M. Raja*

OF176 **14:45 - 15:45** **Hall K**
1-Hour Mini-oral Flash Session
Antibiotic stewardship in hospitals and primary care

Chairs *Sanjay Patel (Southampton, United Kingdom)*
Luis Eduardo Lopez-Cortes (Seville, Spain)

00732 **Audit of penicillin allergy documentation and suitability for direct oral penicillin challenge to de-label patients with a non-severe penicillin allergy**
T. Yau (Tooting, United Kingdom), M. Basarab, E. Clarke*

00733 **Multisectoral antimicrobial consumption and resistance surveillance data reporting to inform antibiotic policies in human sector: the EPI-Net experience**
C. Mena-Benítez (Verona, Italy), N. Babu Rajendran, F. Arieti, L. Galia, M. Tebon, M.D. Pezzani, E. Tacconelli*

00734 **Parental antibiotic use in urban, peri-urban and rural settings in Peru: a study of knowledge, attitudes and practices**
J. Paredes (Lima, Peru), R. Navarro, T.J. Ochoa*

00735 **Use of the antibiotics according to WHO access, watch, and reserve classification in Estonian referral and central hospitals**
J. Lass (Tartu, Estonia), M. Saar, K. Telling, P. Mitt, M. Maimets, I. Lutsar*

00736 **Estimation of the overall AMR burden in Switzerland is affected by linguistic region and level of care stratifications**
M. Gasser (Bern, Switzerland), A. Kronenberg*

00737 **Association between air pollution and antimicrobial consumption in the general population of two Spanish cities: a preliminary time series analysis**
G. Abelenda-Alonso (Barcelona, Spain), P. Satorra, M. Marí-Dell'olmo, C. Tebè, A. Padullès, A. Vergara, A. Rombauts, J. Carratalà*

00738 **Carbapenem stewardship: analysis of weekly carbapenem review data**
M. Christie (Durham, United Kingdom), J. Malkin*

00739 **A cost-benefit analysis of interventions in the community to reduce the burden of antimicrobial resistance: an Irish perspective**
C. Halpin (Galway, Ireland), L. Russell, M. Mcalister, R. Flynn, M. Kinahan*

00740 **Antimicrobial resistance and migration: a qualitative study on migrants' experiences around antibiotic use and their perceived health needs**
A. Al-Oraibi (Nottingham, United Kingdom), O. Hassan, L. Silva, L. B Nellums*

VW177 **14:45 - 15:45** **Arena 2**
Virtual Walk Through
IT tools in antimicrobial stewardship

Moderator *Scott Bergman (Omaha, United States)*
Reviewer *Timothy Rawson (London, United Kingdom)*

ID

SY178 **16:15 - 18:15** **Hall B**
Symposium

Sepsis 2022: prevent it, spot it, treat it, beat it

Chairs *Willem Joost Wiersinga (Amsterdam, Netherlands)*
Patricia Munoz (Madrid, Spain)

S0741 **16:15** **Sepsis immunity, new insights from multi-omnics**
Luc De Chaisemartin (Châtenay-Malabry, France)

S0742 **16:45** **What is hot in sepsis diagnostics?**
Alessandra Bandera (Milano, Italy)

S0743 **17:15** **Long-term consequences of sepsis**
Manu Shankar-Hari (London, United Kingdom)

S0744 **17:45** **Beyond antibiotics: improving care of patients with BSI and sepsis**
Jordi Rello (Barcelona, Spain)

Co-organised with: International Sepsis Forum (ISF), ESCMID Study Group for Bloodstream Infections, Endocarditis and Sepsis (ESGBIES)

SY179 **16:15 - 18:15** **Hall E**
Symposium

Late-breaking research from *Clinical Microbiology and Infection* journal

Chairs *Angela Huttner (Geneva, Switzerland)*
Andre Kalil (Omaha, United States)

Details on the selected publications will be availble at a later stage

CM

SY180 **16:15 - 18:15** **Hall F**
Symposium

Gut reaction: the connection between biofilms and disease

Chairs *Joana Azeredo (Braga, Portugal)*
Susanne Haeussler (Braunschweig, Germany)

S0745 **16:15** **Bacterial biofilms and toxins a perfect storm for colon cancer**
Julia Drewes (Baltimore, United States)

S0746 **16:45** **Bacterial biofilms in colorectal cancer initiation and progression**
Maikel Peppelenbosch (Rotterdam, Netherlands)

S0747 **17:15** **RNA landscape of emerging cancer associated microbes**
Joerg Vogel (Wuerzburg, Germany)

S0748 **17:45** **Gastrointestinal biofilms in health and disease**
Nathalie Vergnolle (Toulouse, France)

ID

SY181 **16:15 - 18:15** **Hall G**
Symposium

Unveiling the mysteries of FMT efficacy

Chairs *Benoit Guery (Lausanne, Switzerland)*
Victoria McCune (Middlesbrough, United Kingdom)

S0749 **08:30** **Intestinal bile acids from faecal filtrate?**
Roman Melnyk (Toronto, Canada)

S0750 **09:00** **Which Genera of bacteria?**
Surbhi Malhotra-Kumar (Antwerp, Belgium)

S0751 **09:30** **TBA**

S0752 **10:00** **The risk landscape of FMT**
Jessica Allegretti (Boston, United States)

ID

EW182 **16:15 - 18:15** **Hall C**
Educational Workshop

Fungal diagnosis: questions from the bedside and answers from the bench

Chairs *Jeremy Day (Ho Chi Minh City, Vietnam)*
Giuliana Lo Cascio (Piacenza, Italy)

W0753 **16:15** **Fungal infections, not just in neutropenia!**
Dimitrios P. Kontoyiannis (Houston, United States)

W0754 **16:45** **Role of pathogen and host pathophysiology in fungal diagnosis**
Cristina Cunha (Braga, Portugal)

W0755 **17:15** **Guidance from the bench: human and fungal markers**
Katrien Lagrou (Leuven, Belgium)

IC

EW183 **16:15 - 18:15** **Hall J**
Educational Workshop

Prevention of nosocomial bloodstream infections

Chairs *Suzana Bukovski (Zagreb, Croatia)*
Breida Boyle (Dublin, Ireland)

W0756 **16:15** **Epidemiology and impact of healthcare-associated BSI**
Alessandro Cassini (Geneva, Switzerland)

W0757 **16:45** **CLABSI: successes and challenges**
Debby Ben-David (Holon, Israel)

W0758 **17:15** **Beyond the ICU: preventing nosocomial BSI hospital-wide**
Jean-Christophe Lucet (Paris, France)

Co-organised with: ESCMID Study Group for Critically Ill Patients (ESGCIP)

OS184 **16:15 - 18:15** **Hall I**

2-Hour Oral Session

Microbial diversity studies across diverse settings

Chairs *Willem Van Schaik (Birmingham, United Kingdom)*
Paul Savelkoul (Maastricht, Netherlands)

00759 **Impacts of lumacaftor-ivacaftor on the airway mycobiota-microbiota and local inflammation are more significant in CF patients uncolonised with *Pseudomonas aeruginosa***
F. Lussac-Sorton (Bordeaux, France), R. Enaud, É. Charpentier, L. Velo, J. Guiraud, S. Bui, M. Fayon, T. Schaeverbeke, M. Nikolski, P.R. Burgel, G. Héry-Arnaud, L. Delhaes*

00760 **Metagenomic analysis of gut microbiota in COVID-19 patients**
Y. Choi (Lausanne, Switzerland), T. Galperine, J.L. Pagani, M. Papadimitriou, M. Méan, V. Scherz, A. Kritikos, O. Opota, G. Greub, B. Guery, C. Bertelli*

00761 **16S amplicon-based metagenomics for pathogen detection in routine diagnostic clinical microbiology**
S. Nassirnia (Lausanne, Switzerland), D. Jacot, G. Greub, C. Bertelli*

00762 **Risk of infection and death and gut microbiota composition in patients with advanced liver disease**
E. Rubio Garcia (Barcelona, Spain), B.I. Fidalgo, A. Sellares, F. Aziz, M. Hernandez, J. Fernandez, J. Vila, A. Soriano, A. Vergara, C. Casals-Pascual*

00763 **Microbiome analysis and seminal fluid detection on underwear as promising and robust sexual assault evidence**
S. Ahannach (Antwerp, Belgium), I. Spacova, T. Gehrmann, S. Wittouck, J. Hiers, R. Decorte, E. Jehaes, S. Lebeer*

00764 **Impact of ceftibuten, ciprofloxacin, co-trimoxazole,nitrofurantoin and pivmecillinam on the intestinal microbiota: a randomised controlled trial with healthy adults**
H. Montelin (Uppsala, Sweden), J.W. Debelius, A. Nääs, J.D. Järhult, C. Giske, L. Engstrand, T. Tängdén*

00765 **Specific gut microbiome and serum metabolome changes in lung cancer patients**
X. Wang (Hangzhou, China), F. Zhao, R. An, J. Shan*

00766 **Microbiota dysbiosis clustered by *Pseudomonas aeruginosa* load in bronchiectasis patients**
R. Lopez-Aladid (Barcelona, Spain), L. Fernández-Barat, L. Bueno-Freire, N. Vázquez, R. Pastor-Ibañez, V. Alcaraz-Serrano, A. Palomeque, R. Amaro, P. Oscanoa, A. Torres*

00767 **Alteration of gut microbiota diversity after allogeneic haematopoietic stem cell transplantation: a pilot study**
K. Jutivorakool (Bangkok, Thailand), T. Chatsuwan*

00768 **Effect of tebipenem on the normal gut microbiota of healthy adult population**
T. Wondimu (Stockholm, Sweden), T. Sewunet, M. Razzavi, A. Camporeale, S. Rosenborg, M. Nowak, D. Melnick, L.B. Gasink, P.B. Eckburg, I.A. Critchley, C.E. Nord, C.G. Giske*

OS185 **16:15 - 17:15** **Hall D**

1-Hour Case Session

Uncommon systemic infections

Chair *Adrian John Brink (Cape Town, South Africa)*

00768A **The first reported case of human infection with *Variovorax durovernum;* a novel species of *Variovorax* spp. isolated from a prosthetic aortic graft of a shepherd**
L. Payne (London, United Kingdom), A. Alcolea-Medina, L.B. Snell, C. Alder, T. Charalampous, J.D. Edgeworth, R. Batra, J.L. Klein, A.L. Goodman*

00769 **Detection of invasive *Bartonella* infections with next-generation sequencing of microbial cell-free DNA**
F. Centeno (Houston, United States), A. Hamdi, M. Al Mohajer*

00770 **A fatal case of disseminated nocardiosis due to *Nocardia otitidiscaviarum* resistant to trimethoprim-sulfamethoxazole**
S. Alshehri (Riyadh, Saudi Arabia), M. Barry, A. Ahlam, M. Barry, A. Alhijji, K. Binkhamis, F. Al-Shahrani, A. Alsharidi, M. Taim*

00771 **Renal actinomycosis: a frequently overlooked disease with serious risks**
M. Romdhani (Tunis, Tunisia), S. Hannachi, R. Abid, R. Battikh*

00772 **A case of *Wohlfahrtiimonas chitiniclastica* bacteraemia in Spain**
Y. García Collado (Malaga, Spain), C. García Pérez, R. Martínez Pérez, E. Clavijo Frutos, M.V. García López*

VW186 **16:15 - 17:15** **Arena 2**

Virtual Walk Through

AMR from wastewater and aquatic environment

Moderator *Monika Dolejska (Brno, Czech Republic)*
Reviewer *Hillary Craddock (Be'er Sheva, Israel)*

Scientific Programme Overview
Tuesday, 26 April 2022

Hall A	Hall B	Hall C	Hall D	Hall E	Hall F
		07:15 - 08:15			07:15 - 08:15
		ME187 Controversial microbiology results in implant-associated infections (IAIs), how to handle them? (ID)			ME188 How to develop and use methods for assessment of immune response to infectious diseases (CM)
08:30 - 10:30	08:30 - 10:30	08:30 - 10:30	08:30 - 09:30	08:30 - 10:30	08:30 - 10:30
SY194A Clinical Grand Round 2022	EW200 Overcoming methodological challenges in CM/ID studies (ID) (CM)	SY195 Let's not forget about atypical bacterial respiratory pathogens (ID)	OF205 Creating knowledge in real time: challenges of building research infrastructure during a pandemic	SY196 Genomics for hospital infection control (IC)	EW201 COVID-19 and consequences for mental health from different perspectives (PH)
11:00 - 12:00	11:00 - 12:00	11:00 - 12:00	11:00 - 12:00	11:00 - 12:00	11:00 - 12:00
KN208 Future threats from coronaviruses (PH)	SY209 AMR crossroads among public health, planetary health and the climate change crisis (CM)	OF222 Viral respiratory infections: Influenza and RSV	OS221 Treatment alternatives for unusual clinical situations	OS214 Severity and outcome of infection during the COVID-19 pandemic	OS215 Let's keep social distance? STIs in 2022
	13:30 - 15:30	13:30 - 15:30	13:30 - 14:30	13:30 - 15:30	13:30 - 15:30
	SY225 New antibiotics in the pipeline: where and what did we get? (ID)	OS232 Advances in infection prevention and control (beyond COVID-19)	OS237 Intriguing cases of viral infections	EW229 Behavioural science essentials for antimicrobial stewards (ID)	OS233 Whole genome and metagenomic sequencing in surveillance and resistance detection of bacteria

All times are specified in WEST (UTC +1). If attending online, please convert to your local timezone.

Colour Key

Educational Workshops, Meet-the-Expert Sessions | Symposia (1h/2h) | Oral sessions (1h/2h)
Keynote Lectures | Open Forum & Virtual Walk Throughs
Integrated Symposia & Pipeline Corners are not detailed in this book. Please refer to the Industry Guide for session details.

Sessions specifically interesting for:

(ID) Infectious Disease specialists (CM) Clinical Microbiologists (IC) Infection Control specialists (PH) Public Health specialists

Hall G	Hall H	Hall I	Hall J	Hall K	Hall L
07:15 - 08:15	**07:15 - 08:15**	**07:15 - 08:15**		**07:15 - 08:15**	**07:15 - 08:15**
ME189	ME190	ME191		ME192	ME193
Azole-resistant *Candida parapsilosis:* a new nosocomial threat? (CM)	How to harness Artificial Intelligence for vaccines: the COVID-19 example (PH)	Duration of therapy: from what we know to what we do (ID)		Dosing regimens of Fosfomycin and Colistin: have we been dosing all wrong? (ID)	Antimicrobial stewardship in the emergency department (ID)
08:30 - 10:30	**08:30 - 10:30**	**08:30 - 10:30**	**08:30 - 10:30**	**08:30 - 10:30**	**08:30 - 10:00**
OS202	SY197	OS203	SY198	OS204	IS51
Clinical and preclinical studies with new antibacterials	Innovative diagnostics in biofilm-associated infections (CM)	Clinical impact of MDR and XDR Gram negatives: from colonisation to outcome	Bronchiectasis: microbes, pathogenesis, treatments (ID)	Infection and immunity in iatrogenically immunocompromised patients	Confronting CMV in the transplant population: applying the guidelines amid new therapeutic options
11:00 - 12:00	**11:00 - 12:00**	**11:00 - 12:00**	**11:00 - 12:00**	**11:00 - 12:00**	**11:00 - 12:00**
SY210	OF223	SY211	OS216	OS217	OS218
Invasive fungal diseases (IFDs) in young age: similarities and differences (ID)	Enhancing antibiotic therapy against biofilms with combined treatments	Dawn of the ticks: implications for Europe (PH)	Molecular evolution and new resistance mechanisms in Gram-negatives	Innovations in CM/ID educational tools	Global fungal epidemiology: what's emerging?
13:30 - 15:30	**13:30 - 15:30**	**13:30 - 15:30**	**13:30 - 15:30**	**13:30 - 15:30**	**13:30 - 14:30**
EW230	SY226	SY227	SY228	OS234	OF238
Transdisciplinary approach to Global Health: the case of Neglected Tropical Diseases (PH)	Pathogen competition and co-evolution in the microbiome (CM)	Plasmid curing for combating antibiotic resistance (CM)	Genomic surveillance to inform development and implementation of anti-bacterial vaccines (CM)	Detection of antimicrobial resistance: from conventional to the very edge	Epidemiology of antifungals resistance and susceptibility to new antifungal drugs

All times are specified in WEST (UTC +1). If attending online, please convert to your local timezone.

Scientific Programme Overview
Tuesday, 26 April 2022

Hall M	Hall N	Hall O	Hall P	Hall Q
	07:15 - 08:15			
	ME194 How I treat severe *Stenotrophomonas maltophillia* infections (ID)			
	08:30 - 10:30	08:30 - 10:30	08:30 - 09:30	08:30 - 10:30
	SY199 Travellers and migrants on the move again (PH)	IS52 Improving patient health care in COVID-19 era	IS52 Therapeutic innovations in COVID-19: anti-spike biologics with pan-variant activity	IS54 How can vaccinology impact healthy ageing?
11:00 - 12:00	11:00 - 12:00		11:00 - 12:00	11:00 - 12:00
OS219 Interventions to prevent HAIs: best learning experiences	SY212 Addressing global disparities in antibiotic stewardship: strengthening LMICs (PH)		SY213 How to manage severe VHF in resource-limited settings (PH)	OS220 Secrets of *Clostridioides difficile*
			12:15 - 13:15	
			IS55 Cytomegalovirus prevention: current challenges and future prospects	
13:30 - 15:30	13:30 - 15:30	13:30 - 14:30	13:30 - 14:30	
EW231 Hot topics in paediatric COVID (ID)	OS235 COVID-19 vaccine immunogenicity, efficacy and effectiveness	OS236 RTI: think not only about COVID	OF239 Hot topics in tuberculosis	

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Sessions specifically interesting for:

(ID) Infectious Disease specialists (CM) Clinical Microbiologists (IC) Infection Control specialists (PH) Public Health specialists

Arena 1 & 2

Session Time	Session			Arena
08:30 - 09:30	VW206	Virtual Walk Through	The Fungal World Tour 2022	**1**
08:30 - 09:30	VW207	Virtual Walk Through	Use of genomics in public health virology	**2**
11:00 - 12:00	VW224	Virtual Walk Through	More on resistance mechanisms in Gram-negatives	**2**



Scientific Programme
Tuesday, 26 April 2022

ID

ME187 **07:15 - 08:15** **Hall C**

Meet-the-Expert

Controversial microbiology results in implant-associated infections (IAIs), how to handle them?

M0773 **07:15** *Hege Vangstein Aamot (Lørenskog, Norway)*
M0774 **07:45** *Maria Eugenia Portillo (Pamplona, Spain)*

Co-organised with: ESCMID Study Group for Implant-associated Infections (ESGIAI)

CM

ME188 **07:15 - 08:15** **Hall F**

Meet-the-Expert

How to develop and use methods for assessment of immune response to infectious diseases

M0775 **07:15** *Sven Olek (Berlin, Germany)*
INT4 **07:45** *África González-Fernández (Virgo, Spain)*

CM

ME189 **07:15 - 08:15** **Hall G**

Meet-the-Expert

Azole-resistant *Candida parapsilosis*: a new nosocomial threat?

M0776 **07:15** *Mariana Castanheira (North Liberty, United States)*
M0777 **07:45** *Nelesh Govender (Johannesburg, South Africa)*

Co-organised with: ESCMID Fungal Infection Study Group (EFISG)

PH

ME190 **07:15 - 08:15** **Hall H**

Meet-the-Expert

How to harness Artificial Intelligence for vaccines: the COVID-19 example

M0778 **07:15** *Guillaume Beraud (Poitiers, France)*
M0779 **07:45** *Carolina Garcia-Vidal (Barcelona, Spain)*

Co-organised with: ESCMID Vaccine Study Group (EVASG)

ID

ME191 **07:15 - 08:15** **Hall I**

Meet-the-Expert

Duration of therapy: from what we know to what we do

M0780 **07:15** *Angela Huttner (Geneva, Switzerland)*
M0781 **07:45** *Jose Ramon Pano-Pardo (Zaragoza, Spain)*

Co-organised with: CMI Board of Editors

ID

ME192 **07:15 - 08:15** **Hall K**

Meet-the-Expert

Dosing regimens of Fosfomycin and Colistin: have we been dosing all wrong?

M0782 **07:15** *Fernando Docobo Perez (Seville, Spain)*
M0783 **07:45** *Lena Friberg (Uppsala, Sweden)*

Co-organised with: ESCMID Study Group for Antimicrobial Resistance Surveillance (ESGARS)

ID

ME193 **07:15 - 08:15** **Hall L**

Meet-the-Expert

Antimicrobial stewardship in the emergency department

M0784 **07:15** *Marlies Hulscher (Nijmegen, Netherlands)*
M0785 **07:45** *Carlos Palos (Lisbon, Portugal)*

Co-organised with: ESCMID Study Group for Antimicrobial stewardship (ESGAP)

ID

ME194 **07:15 - 08:15** **Hall N**

Meet-the-Expert

How I treat severe *Stenotrophomonas maltophillia* infections

M0786 **07:15** *Marco Falcone (Pisa, Italy)*
M0787 **07:45** *David Van Duin (Chapel Hill, United States)*

Presentations in light grey were not registered at the time of publishing.

ECCMID CLINICAL GRAND ROUND 2022

Tuesday, 26 April 2022

08:30 – 10:30 WEST, Hall A



CLINICAL GRAND ROUND 2022

2-Hour Symposium

Experts:

Tristan Ferry, Lyon, France
Souha S. Kanj, Beirut, Lebanon
David Paterson, Brisbane, Australia
Nicola Petrosillo, Rome, Italy
Jesús Rodríguez-Baño, Seville, Spain
Monica Slavin, Melbourne, Australia

Moderator:

Robert C. Read, Southampton, United Kingdom

Speakers:

Case 1 – Oshrat Ayalon, Jerusalem, Israel
Case 2 – Alison Castle, Boston, United States
Case 3 – Adam Dale, Southampton, United Kingdom
Case 4 – Natalia Medvedeva, Stanford, United States
Case 5 – Elena Morte Romea, Zaragoza, Spain
Case 6 – Natali Uribe Pulido, Medellín, Colombia
Case 7 – Viplov Vaidya, Mumbai, India

Lisbon, Portugal
23–26 April 2022

32nd ECCMID

Co-organised with:
Infectious Diseases Society of America (IDSA)

ESCMID
MANAGING INFECTIONS
PROMOTING SCIENCE

SY194A **08:30 - 10:30** **Hall A**
Symposium

Clinical Grand Round 2022

Experts *Tristan Ferry (Lyon, France)*
Souha S. Kanj (Beirut, Lebanon)
Dimitrios P. Kontoyiannis (Houston, United States)
Nicola Petrosillo (Rome, Italy)
Jesús Rodríguez-Baño (Seville, Spain)
Monica Slavin (Melbourne, Australia)

Moderator *Robert C. Read (Southampton, United Kingdom)*

S0787A **Case 1**
Oshrat Ayalon (Jerusalem, Israel)

S0787B **Case 2**
Alison Castle (Boston, United States)

S0787C **Case 3**
Adam Dale (Southampton, United Kingdom)

S0787D **Case 4**
Natalia Medvedeva (Stanford, United States)

S0787E **Case 5**
Elena Morte Romea (Zaragoza, Spain)

S0787F **Case 6**
Natali Uribe Pulido (Medellín, Colombia)

S0787G **Case7**
Viplov Vaidya (Mumbai, India)

Co-organised with:
Infectious Diseases Society of America (IDSA)

ID

SY195 **08:30 - 10:30** **Hall C**
Symposium

Let's not forget about atypical bacterial respiratory pathogens

Chairs *Sabine Pereyre (Bordeaux, France)*
Michael Beeton (Cardiff, United Kingdom)

S0788 **08:30** **The reemergence of pertussis**
Ruiting Lan (Randwick, Australia)

S0789 **09:00** **Diagnostic improvements in *Legionella***
Sophie Jarraud (Lyon, France)

S0790 **09:30** **Recent developments in *Mycoplasma***
Victoria Chalker (London, United Kingdom)

S0791 **10:00** **Recent developments in *Chlamydia***
Gilbert Greub (Mollie-Margot, Switzerland)

Co-organised with: ESCMID Study Group for Mycoplasma and Chlamydia Infections (ESGMAC), ESCMID Study Group for Legionella Infections (ESGLI)

IC

SY196 **08:30 - 10:30** **Hall E**
Symposium

Genomics for hospital infection control

Chairs *Brenda Ang (Singapore, Singapore)*
Andreas F. Widmer (Basel, Switzerland)

S0792 **08:30** **Application of genomics to investigate hospital outbreaks and inform infection control in a sub-Saharan African setting**
Uduak Okomo (Fajara, Gambia)

S0793 **09:00** **Optimising genomic approaches for surveillance of multidrug resistant pathogens**
Claire Gorrie (Melbourne, Australia)

S0794 **09:30** **Mapping the resistome in the hospital environment and implications for infection prevention**
Niranjan Nagarajan (Singapore, Singapore)

S0795 **10:00** **Genomic investigation of drug resistant Gram-negatives in a Nepalese hospital**
Abhilasha Karkey (Kathmandu, Nepal)

CM

SY197 **08:30 - 10:30** **Hall H**
Symposium

Innovative diagnostics in biofilm-associated infections

Chairs *Maria Dolores Macia Romero (Palma de Mallorca, Spain)*
Tom Coenye (Ghent, Belgium)

S0796 **08:30** **Biofilm viability Checker**
Thomas Bjarnsholt (Copenhagen, Denmark)

S0797 **09:00** **Biofilm Staging: at the interface of microbiology, pathology and molecular biology**
Annette Moter (Berlin, Germany)

S0798 **09:30** **Biosensors for the diagnosis of biofilm infections**
Agneta Richter-Dahlfors (Stockholm, Sweden)

S0799 **10:00** **Managing complex biofilm-associated infections in the clinical microbiology lab**
Craig Williams (Lancaster, United Kingdom)

Co-organised with: ESCMID Study Group for Biofilms (ESGB), ESCMID Study Group for host and microbiota interaction (ESGHAMI), ESCMID Study Group for Anaerobic Infections (ESGAI)

ID

SY198 **08:30 - 10:30** **Hall J**
Symposium

Bronchiectasis: microbes, pathogenesis, treatments

Chairs *Eva Polverino (Barcelona, Spain)*
Arietta Spinou (London, United Kingdom)

S0800 **08:30** **The microbiome and bronchiectasis**
Sanjay Chotirmall (Singapore, Singapore)

S0801 **09:00** **Inflammation and bronchiectasis**
James Chalmers (Dundee, United Kingdom)

S0802 **09:30** **New approaches in the management of bronchiectasis**
Stefano Aliberti (Pieve Emanuele, Italy)

S0803 **10:00** **Current and advanced imaging techniques in bronchiectasis**
Efthymia Alexopoulou (Athens, Greece)

Co-organised with: European Respiratory Society (ERS)

PH

SY199 **08:30 - 10:30** **Hall N**
Symposium

Travellers and migrants on the move again

Chairs *Anu Kantele (Helsinki, Finland)*
Kristine Morch (Bergen, Norway)

S0804 **08:30** **Latent tuberculosis in migrants and travellers during COVID times**
Delia Goletti (Rome, Italy)

S0805 **09:00** **Update on malaria in migrants and travellers**
George Akpede (Ekpoma, Nigeria)

S0806 **09:30** **How to manage nitroimidazole-refractory Giardiasis**
Andreas Neumayr (Basel, Switzerland)

S0807 **10:00** **Importation of MDR bacteria after hospitalisation abroad**
Jouko Mikael Kajova (Espoo, Finland)

Co-organised with: ESCMID Study Group for Infections in Travellers and Migrants (ESGITM)

CM ID

EW200 **08:30 - 10:30** **Hall B**
Educational Workshop

Overcoming methodological challenges in CM/ID studies

Chairs *Mical Paul (Haifa, Israel)*
Valentijn Schweitzer (Utrecht, Netherlands)

W0808 **08:30** **Making the most out of before-after studies: when life gives you lemons**
Cornelis H. Van Werkhoven (Utrecht, Netherlands)

W0809 **09:00** **Tips and tricks on how to perform a meta-analysis that can change clinical practise**
Mariska Mg Leeflang (Amsterdam, Netherlands)

W0810 **09:30** **Time matters! State-of-the-art methods to analyse clinical data**
Martin Wolkewitz (Freiburg, Germany)

Co-organised with: Trainee Association of ESCMID (TAE) Steering Committee, ESCMID Education Subcommittee

PH

EW201 **08:30 - 10:30** **Hall F**
Educational Workshop

COVID-19 and consequences for mental health from different perspectives

Chairs *Petar Velikov (Sofia, Bulgaria)*
Luigia Scudeller (Bologna, Italy)

W0811 **08:30** **COVID-19 pandemic impact on clinicians' mental health and wellbeing**
Gregory Keane (Paris, France)

W0812 **09:00** **Impact of the COVID-19 pandemic on the mental health and wellbeing of patients**
Paul Plener (Vienna, Austria)

W0813 **09:30** **Impact of the COVID-19 pandemic on the mental health and wellbeing of of minorities, women and children**
TBA

Co-organised with: Trainee Association fo ESCMID (TAE), Professional Affairs Subcommittee, World Health Organization (WHO), Médecins Sans Frontières (MSF)

OS202 **08:30 - 10:30** **Hall G**
2-Hour Oral Session

Clinical and preclinical studies with new antibacterials

Chairs *Özlem Kurt Azap (Ankara, Turkey)*
Shampa Das (Liverpool, United Kingdom)

O0814 **Antimicrobial activity of commensal and environmental bacteriocin producer *Staphylococcus* isolates**
R. Fernández-Fernández (Logroño, Spain), C. Lozano, M. Zarazaga, B. Krismer, C. Torres*

O0815 **Chimeric pyocin efficiently eradicates *Pseudomonas aeruginosa* in mouse keratitis and lung colonisation models**
Š. Paškevicius (Vilnius, Lithuania), V. Dapkute, A. Misiunas, P. Thommes, A. Sattar, Y. Gleba, A. Ražanskiene*

O0816 **Discovery of CRS400393: a potent mmpL3 inhibitor as an antimycobacterial agent**
X. Sun (Boulder, United States), M.A. Degroote, T. Hoang, H. Liu, T. Youmans, C. Mason, W. Ribble, J. Day, T. Jarvis, U. Ochsner*

O0817 **Efficacy and safety of sulbactam-durlobactam (SUL-DUR) versus colistin therapy in patients with *Acinetobacter baumannii-calcoaceticus* complex (ABC) infections: a global, randomised, active-controlled phase III trial (ATTACK)**
D. Altarac (Waltham, United States), R. Isaacs, S. Srinivasan, S. Mcleod, K. Rana, G. Poirier, A. Shorr, K. Kaye*

00818 ***In vitro* directed evolution of anti-*Staphylococcus aureus* therapeutic phages: host range expansion against multidrug-resistant *Staphylococcus epidermidis* isolates**
C. Kolenda (Lyon, France), M. Medina, M. Bonhomme, C. Rousseau, F. Laumay, L. Tiphaine, B. Leslie, E. Helluin, T. Briot, G. Leboucher, F. Pirot, T. Ferry, F. Laurent*

00819 ***In vivo* efficacy of CF-370 alone and in addition to amikacin in the rabbit acute pneumonia model caused by an extensively drug-resistant (XDR) *Pseudomonas aeruginosa*, AR-769**
D. Lehoux (Yonkers, United States), W. Abdelhady, A. Elsayed, Y.Q. Xiong, S. Swift, C. Cassino, R. Schuch, A.S. Bayer*

00820 **Isolation and genomic characterisation of three lytic phages against various drug-resistant human pathogens**
R. Nepal (Kathmandu, Nepal), S. Karki, G. Dhungana, R. Malla*

00821 **A phase I study of the safety, tolerability, and pharmacokinetics of the beta-lactamase inhibitor QPX7728 following IV dosing in healthy adult subjects**
J. Roberts (Brisbane, Australia), D. Griffith, S. Wallis, M. Patricia Hernandez-Mitre, E. Morgan, M. Dudley, J. Loutit*

00822 **Engineered polyurea (PURE) dendrimers are potent antimicrobial agents**
S.N. Pinto (Lisbon, Portugal), D. Mil-Homens, R.F. Pires, M.M. Alves, G. Serafim, N. Martinho, M. Melo, A.M. Fialho, V.D.B. Bonifácio*

00823 **Antimicrobial action of beneficial isolates from the skin, vaginal and respiratory microbiota against the opportunistic pathogen *Staphylococcus aureus***
J. Van Malderen (Antwerp, Belgium), L. Delanghe, I. De Boeck, S. Ahannach, I. Spacova, S. Lebeer*

OS203 **08:30 - 10:30** **Hall I**
2-Hour Oral Session

Clinical impact of MDR and XDR Gram negatives: from colonisation to outcome

Chairs *Sören G. Gatermann (Bochum, Germany)*
Agnes Maria Sonnevend (Pécs, Hungary)

00824 **Proof-of-concept study to quantify changes in intestinal load of KPC-producing *Klebsiella pneumoniae* in colonised patients following selective digestive decontamination with oral gentamicin**
E. Pérez-Nadales (Cordoba, Spain), A. M. Natera, M. Recio-Rufián, J. Guzmán-Puche, J.A. Marín-Sanz, Á. Cano, J.J. Castón, C. Elías-López, L. López-Cerero, L. Martínez-Martínez, J. Torre-Cisneros*

00825 **Risk factors for bloodstream infections due to carbapenem-resistant Enterobacterales: a prospective, European, nested case-control study**
M.E.A. De Kraker (Geneva, Switzerland), H.Y. Zhou, N. Buetti, M. Paniagua, J. Bravo-Ferrer, B. Gutiérrez-Gutiérrez, S. Pérez-Galera, J. Feifel, J. Sauser, J. Schotsman, T. Kostyanev, L. Tan, H. Goossens, M. Bonten, S. Harbarth, J. Rodriguez-Baño*

00826 **Colonisation by carbapenem-resistant and extended-spectrum β-lactamase producing *Enterobacteriaceae* among patients admitted to the emergency department of a tertiary care hospital in Lima, Peru**
E. Varillas (Lima, Peru), G. Gutierrez Batallanos, A.F. Madrid Espinoza, N. Hinostroza Sacsi, F. Krapp López*

00827 **Outcome of infections caused by carbapenemase-producing Enterobacterales (CPE) in patients with haematological disorders**
K. Tandilova (Moscow, Russian Federation), G. Klyasova, S. Khrulnova, V. Troitskaya, L. Kuzmina, G. Galstyan, S. Kravchenko, E. Gribanova, E. Zvonkov, V. Savchenko, E. Parovichnikova*

00828 **Clinical and epidemiological features of community-onset healthcare related infections due to carbapenemase-producing *Klebsiella pneumoniae* and *Escherichia coli* in Spain: the CARB-ES-2019 study**
Z. Palacios-Baena (Seville, Spain), F. Sivianes, Z. Moure, J. Cañada, M. Pérez-Vázquez, M. Delgado-Valverde, G. Ruiz-Carrascoso, B. Suberviola Casas, I. Ayestarán, D. Gijón, B. Viñado, A. Rivera, M. García Bardanca, F. Marco, I. García Ahufinger, J. Oteo-Iglesias, J. Rodríguez-Baño*

00829 **Risk factors for multidrug-resistance in healthcare-associated bacteraemic urinary tract infections: a prospective multi-centre study in Spain**
S. Gómez-Zorrilla (Barcelona, Spain), F. Becerra, I. López Montesinos, E. Ruiz De Gopegui, I. Grau, V. Pintado, B. Padilla, N. Benito, L. Boix-Palop, M.C. Fariñas, M. Peñaranda, M.R. Gamallo, J.A. Martinez, E. Morte-Romea, J.L. Del Pozo, X. Durán-Jordà, E. Sendra, M. Cotarelo, J. Diaz-Regañón, R. Cantón, A. Oliver, P. Ruiz Garbajosa, J.P. Horcajada*

00830 **Ceftazidime/avibactam-resistant meropenem-susceptible KPC-producing *Klebsiella pneumoniae*: analysis of cases and evaluation of *in vitro* activity of fosfomycin-containing combinations**
A. Oliva (Rome, Italy), D. Al Ismail, M.C. Miele, E. Casali, F. Bruno, F. Sacco, M. De Angelis, R. Polani, C.M. Mastroianni, G. Raponi, A. Carattoli, M. Venditti*

00831 **Resistance to empirical β-lactams recommended in febrile neutropenia guidelines in Gram-negative bacilli bloodstream infections in Spain: a multi-centre study**
*M. Chumbita * (Barcelona, Spain), P. Puerta-Alcalde, L. Yáñez, M.A. Cuesta, A. Chinea, I. Español Morales, P. Fernández Abellán, C. Gudiol, M. Guerreiro, P. González-Sierra, R. Rojas, J.M. Sánchez Pina, I. Sánchez Vadillo, R. Varela, L. Vázquez, C. Lopera, P. Monzó, C. Garcia-Vidal*

00832 **Mortality risks associated with empirical antibiotic activity in *E. coli* bacteraemia: an analysis of electronic health records**
C.H. Yoon (Oxford, United Kingdom), A.S. Walker, D.W. Eyre*

00833 **Surveillance for bloodstream infections caused by carbapenem-resistant Enterobacterales in South Africa, 2019 and 2020**
O. Perovic (Johannesburg, South Africa), L. Shuping, M. Lowe*

OS204 **08:30 - 10:30** **Hall K**
2-Hour Oral Session

Infection and immunity in iatrogenically immunocompromised patients

Chairs *Tessa Andermann (Chapel Hill, United States)*
Shahid Husain (Toronto, Canada)

00834 **Deciphering immune reconstitution at 6 months post allograft of haematopoietic stem cells transplantation using standardised immune functional assays**
W. Mouton (Pierre Bénite, France), A. Conrad, V. Alcazer, M. Boccard, G. Fossard, H. Labussière-Wallet, K. Brengel-Pesce, F. Ader, S. Trouillet-Assant*

00835 **Evaluation of JC virus levels decline in cerebro-spinal fluid as a predictor of survival in patients with progressive multifocal leukoencephalopathy**
I. Mainardi (Milan, Italy), M. Negri, R. Vercesi, R. Caccia, G. Martin-Blondel, G. Norato, I. Cortese, A. Castagna, P. Cinque*

00836 **Infectious events in patients receiving new immunotherapies: a systematic review**
S. Biscarini (Milan, Italy), R. Ungaro, G. Bozzi, A. Saydere, C. Rebuffi, A. Bandera, A. Gori, M.U. Mondelli, A. Lombardi*

00837 **High prevalence of opportunistic infections among serious infections in patients treated with immune checkpoints inhibitors for advanced melanoma**
F. Vuotto (Lille, France), G. Font, L. Mortier, S. Darras, K. Faure*

00838 **Respiratory tract infections in kidney allograft recipients and impact of a dedicated pre-transplant infectious disease consultation: a retrospective study of 516 recipients followed over 4 years**
E. Feredj (Créteil, France), E. Audureau, A. Boueilh, V. Fihman, S. Fourati, S. Gallien, J.D. Lelièvre, P. Grimbert, M. Matignon, G. Melica*

00839 **Persistence of antibodies against measles, mumps, rubella and varicella in the first year after autologous or allogeneic haematopoietic stem cell transplantation**
O. Robak (Vienna, Austria), N. Harrison, H. Burgmann, W. Rabitsch, C. Honsig*

00840 **Validation of an infection prevention strategy in kidney transplant recipients based on an individualised bundle of measures**
L. De Jorge Huerta (Tres Cantos, Spain), M. Fernández-Ruiz, J. Tiago-Silva, G. Maestro De La Calle, A. Andrés Belmonte, J.M. Aguado García, F. López-Medrano*

00841 **Bacteraemia in patients with autologous and allogeneic haematopoietic stem cell transplantation: clinical features, resistance patterns, and risk factors for mortality**
A. Carena (Ricardo Rojas, Argentina), F. Herrera, A. Laborde, R. Jordán, L. Berruezo, I. Roccia Rossi, N. Mañez, S. Lambert, M.L. Pereyra, A. Nenna, M. Dictar, P. Costantini, J. Benso, M.L. González Ibáñez, M.J. Eusebio, N. Baldoni, F. Lovano, L. Barcán, L. Tula, A. Racioppi, M. Luck, F. Pasterán, A. Corso, M. Rapoport, F. Nicola, M.C. García Damiano, R. Monge, R. Carbone, M. Reynaldi, G. Greco, M. Blanco, V. Vilches, M.L. Chaves, S. Valle, M. Bronzi, D. Torres*

00842 **Usefulness of a commercial immune functional assay exploring innate and adaptive responses to predict the occurrence of infectious complications in kidney transplant recipients**
M. Fernández-Ruiz (Madrid, Spain), P. Parra, I. Rodríguez-Goncer, T. Ruiz-Merlo, N. Rendondo, E. González, A. Hernández, Á. Sevillano, R. San Juan, F. López-Medrano, A. Andrés, J.M. Aguado*

00843 **Influence of genetic polymorphisms in genes orchestrating innate immune responses on the risk of BK polyomavirus infection after kidney transplantation**
N. Redondo (Madrid, Spain), I. Rodríguez-Goncer, P. Parra, F. López-Medrano, E. González, A. Hernández, H. Trujillo, T. Ruiz-Merlo, R. San Juan, A. Andrés, J.M. Aguado, M. Fernández-Ruiz*

OF205 **08:30 - 09:30** **Hall D**

1-Hour Mini-oral Flash Session

Creating knowledge in real time: challenges of building research infrastructure during a pandemic

Chairs *Jeremy Day (Ho Chi Minh City, Vietnam)*
Frédéric Laurent (Lyon, France)

00844 **COVID-19 patients across different healthcare sectors in Germany: first results of the cross-sectoral platform (SUEP) of the NAPKON cohort**
M. Scherer (Frankfurt, Germany), M. Hagen, R. Geisler, K. Appel, S.M. Hopff, L. Mitrov, J.P. Reese, M. Kohls, C. Fiessler, O. Miljukov, A.L. Hofmann, J. Schmidt, K. Ungethuem, S. Jiru-Hillmann, T. Illig, G. Anton, I. Bernemann, M. Tauchert, S. Kunze, C. Spinner, C. Scheer, F. Hanses, M.J.G.T. Vehreschild, P. Heuschmann, S. Blaschke, S. Goepel, M.M. Addo, O. Witzke, C. Dhillon, W. Schmidt, H. Altmann, A. Kremer, S. Bercker, D. Müller-Wieland, A. Teufel, R. Bals, J.J. Tebbe, P.R. Tepasse, M. Milovanovic, U. Guenther, A. Friedrichs, C. Stellbrink, E. Hamelmann, S. Tasci, J. Rupp, H. Dashti, M.F. Sprinzl, M. Hower, I. Silberbaur, J. Simon, J. Nattermann, B. Jensen, M. Stecher, J.J. Vehreschild*

00845 **COVID-19 Genomics UK Consortium: setting up a national scale SARS-CoV-2 genomic surveillance network in a crisis**
C. Ludden (Cambridge, United Kingdom), S. Peacock*

00846 **KNCV's dream fund project "No more pandemics": DNA sequencing for early detection of infectious disease epidemics in low- and middle-income countries**
R. Jansen (Lelystad, Netherlands), A. Slyskyi, P. Lempens, N. Madden, R. Anthony, D. Van Soolingen, B. Myrzaliev, L. Mtei, H. Nguyen, E. Tiemersma, C. Mulder, J. Debeer, A. Vanderzanden, K. Kremer*

00847 **SARS-CoV-2 wastewater surveillance to support public health decisions: the case study of Catalonia**
L. Guerrero-Latorre (Girona, Spain), N. Collado, J. Pueyo, L. Bosch, S. Busquets, L. Corominas, C.M. Borrego*

00848 **Ethical and coordinative challenges in setting up a national cohort study exemplified by the German National Pandemic Cohort Network (NAPKON)**
S.M. Hopff (Cologne, Germany), K. Tilch, M. Kraus, B. Lorenz-Depiereux, G. Anton, K.S. Appel, T. Bahmer, A. Bartschke, C. Bellinghausen, I. Bernemann, M. Brechtel, C. Bruenn, C. Dhillon, C. Fiessler, R. Geisler, S. Hansch, F. Hanses, S. Hanß, S. Herold, R. Heyder, W. Hoffmann, A.L. Hofmann, A. Horn, C. Jakob, S. Jiru-Hillmann, T. Keil, Y. Khodamoradi, M. Kohls, D. Krefting, S. Kunze, F. Kurth, W. Lieb, M. Von Lilienfeld-Toal, L.J. Lippert, R. Lorbeer, C. Maetzler, O. Miljukov, M. Nauck, H. Neuhauser, D. Pape, L. Pilgram, V. Puentmann, J.P. Reese, L. Reinke, C. Roemmele, S. Rudolph, J. Sass, C. Schaefer, J. Schaller, M. Schattschneider, C. Scheer, M. Scherer, J. Schmidt, S. Schmidt, M. Schons, K. Seibel, D. Stahl, M. Stecher, F. Steinbeis, S. Stoerk, M. Tauchert, C. Thibeault, N. Toepfner, K. Ungethüm, I. Vadasz, H. Valentin, S. Wiedmann, T. Zoller, R. Berner, C. Von Kalle, M. Krawczak, E. Nagel, T. Illig, S. Schreiber, M. Witzenrath, P. Heuschmann, J.J. Vehreschild*

00849 **Successful prioritisation and delivery of COVID-19 research in the UK**
T. Harman (London, United Kingdom), A. Ustianowski, P. Evans, I. Baker, J. Beety, D. Chadha Manek, E. Chambers, S. Crawshaw, B. Morgan, G. Powell, M. Rogers, P. Sharrat, E. Shrimpton, M. Soussi, J. Williamson, N. Lemoine*

00850 **Successful mobilisation and adaptation of the UK research delivery infrastructure to deliver COVID-19 vaccine trials at scale and pace**
A. Ustianowski (Manchester, United Kingdom), T. Harman, I. Baker, J. Beety, E. Moss, D. Chadha Manek, N. Lemoine*

00851 **Vaccelerate Volunteer Registry**
J. Salmanton-García (Cologne, Germany), F.A. Stewart, S. Heringer, C. Argyropoulos, M. Koniordou, S. Themostocleous, E. Álvarez, M. Akova, H.H. Askling, A.M. Azzini, J. Cano Ochando, M. Cohen-Kandli, R.J. Cox, R.J. Davis, P. Husa, L. Jancoriene, A. Macken, P. Mallon, L. Marques, M.A. Mendonça, C. Merakou, P. Nauclér, G. Shiamakkides, L. Soucková, O. Spivak, E. Tacconelli, P. Valle Simón, M. Zeitlinger, K. Albus, M. Bonneton, A. Koscalova, O. Launay, D. Seidel, A. Steinbach, K. Tóth, S. Trelle, P. Van Damme, T.E. Zaoutis, O.A. Cornely, Z.D. Pana*

00852 **Vaccelerate EUVAP (European Vaccine Trial Accelerator Platform)**
J. Salmanton-García (Cologne, Germany), A. Steinbach, F. Stewart, S. Hofstraat, C. Merakou, I. Kopsidas, P. Valle Simón, M. Akova, M. Bonten, R.J. Cox, P. Van Damme, R. Flisiak, P. Husa, L. Jancoriene, M. Cohen-Kandli, A. Koscalova, O. Launay, J. Lundgren, P. Mallon, L. Marques, P. Nauclér, J. Cano Ochando, E. Tacconelli, K. Tóth, S. Trelle, M. Zeitlinger, T.E. Zaoutis, Z.D. Pana, O.A. Cornely, P. Bruijning-Verhagen*

VW206 **08:30 - 09:30** **Arena 1**
Virtual Walk Through

The Fungal World Tour 2022

Moderator *Anna Skiada (Athens, Greece)*
Reviewer *Tom Chiller (Atlanta, United States)*

VW207 **08:30 - 09:30** **Arena 2**
Virtual Walk Through

Use of genomics in public health virology

Moderator *Peter Simmonds (Oxford, United Kingdom)*
Reviewer *Anna Papa-Konidari (Thessaloniki, Greece)*

PH

KN208 **11:00 - 12:00** **Hall A**
Keynote lecture



Future threats from coronaviruses
Chairs *David Heymann (London, United Kingdom)*
Heli Harvala (London, United Kingdom)
K0853 **11:00**
Malik Peiris (Hong Kong, China)

Malik Peiris is currently the Professor and Chair in Virology at the School of Public Health, The University of Hong Kong. His research focuses on the virology, ecology, pathogenesis and epidemiology of influenza, coronaviruses, and other emerging respiratory viral infections. He has a particular interest in emerging viral infections at the animal-human interface and in the application of the "One Health" approach to emerging infectious diseases. In 2003, he played a key role in the discovery that a novel coronavirus was the cause of SARS and understanding its pathogenesis and control. In collaboration with his colleagues at the School of Public Health, his research has elucidated the emergence, transmission, and pathogenesis of avian influenza viruses H5N1, H9N2, H7N9, and the pandemic H1N1 virus of 2009 and, more recently, of the MERS coronavirus. Prof. Peiris was awarded the Silver Bahunia Star of the HKSAR in 2008, and was elected a the Fellow of the Royal Society of London in 2006 and as the Foreign Member of the US National Academy of Science in 2017.

Fireplace Session 26 April, **12:15 - 13:15**

CM

SY209 **11:00 - 12:00** **Hall B**
Symposium

AMR crossroads among public health, planetary health and the climate change crisis

Chairs *Marc J. Struelens (Saltsjobaden, Sweden)*
Sabiha Essack (Durban, South Africa)

S0854 **11:00** **Co-evolutionary governance of antibiotic resistance for global sustainability: pathways for public health and environmental stewardship**
Peter Søgaard Jørgensen (Stockholm, Sweden)

S0855 **11:30** **Spread of antibiotic resistant bacteria in the environment associated with anthropogenic pollution**
Marie-Cécile Ploy (Limoges, France)

Co-organised with: ESCMID Study Group for Public Health Microbiology (ESGPHM)

ID

SY210 **11:00 - 12:00** **Hall G**
Symposium

Invasive fungal diseases (IFDs) in young age: similarities and differences

Chairs *Andreas H. Groll (Münster, Germany)*
Nigel Klein (London, United Kingdom)

S0856 **11:00** **Epidemiological trends of IFDs in neonates, children, and adolescents**
Emmanuel Roilides (Thessaloniki, Greece)

S0857 **11:30** **Diagnostic difficulties in young IFD patients: biomarkers and imaging**
Elio Castagnola (Genoa, Italy)

Co-organised with: ESCMID Fungal Infection Study Group (EFISG)

PH

SY211 **11:00 - 12:00** **Hall I**
Symposium

Dawn of the ticks: implications for Europe

Chairs *Titia M. Kortbeek (Bilthoven, Netherlands)*
Anna Henningsson (Jönköping, Sweden)

S0858 **11:00** **Dynamics of the tick population within UK**
Jolyon Medlock (London, United Kingdom)

S0859 **11:30** **Changing patterns of tick borne diseases in Europe**
Philippe Parola (Marseille, France)

Co-organised with: ESCMID Study Group for Clinical Parasitology (ESGCP)

PH

SY212 **11:00 - 12:00** **Hall N**
Symposium

Addressing global disparities in antibiotic stewardship: strengthening LMICs

Chairs *George Akpede (Ekpoma, Nigeria)*
Fatima Mustafa (Pretoria, South Africa)

S0860 **11:00** **Disparities and gaps for implementation of AMS in LMIC**
Nusrat Shafiq (Chandigarh, India)

S0861 **11:30** **Sustainable implementation of AMS programs in Sub-Saharan countries: the Nigerian approach**
Kenneth Iregbu (Abuja, Nigeria)

PH

SY213 **11:00 - 12:00** **Hall P**
Symposium

How to manage severe VHF in resource-limited settings

Chairs *Alexandre Duvignaud (Bordeaux, France)*
TBA

S0862 **11:00** **Community care of VHF**
Michel Van Herp (Brussels, Belgium)

S0863 **11:30** **How to manage severe VHFs: case studies of Ebola and Lassa fever**
Nnennaya Ajayi (Abakaliki, Nigeria)

OS214 **11:00 - 12:00** **Hall E**
1-Hour Oral Session

Severity and outcome of infection during the COVID-19 pandemic

Chairs *Arvydas Ambrozaitis (Vilnius, Lithuania)*
Mauricio Farfan (Santiago, Chile)

00864 **Post-COVID-19 condition incidence and risk factors: a population-based nested case-control study in Stockholm, Sweden**
P. Hedberg (Stockholm, Sweden), F. Granath, J. Bruchfeld, J. Askling, D. Sjöholm, M. Fored, A. Färnert, P. Naucler*

00865 **Real-time joint analysis of duration of hospital stay and mortality of German COVID-19 patients using multi-state models**
D. Hazard (Freiburg, Germany), M. Grodd, A. Carine Makoudjou Tchendjou, S. Lozano-Zahonero, A. Prunottto, D. Zöller, M. Wolkewitz*

00866 **Association of patients' pre-existing determinants and severity/mortality in patients diagnosed with COVID-19: results of an umbrella systematic review and meta-analysis**
E. Reyna-Villasmil (Seville, Spain), Z.R. Palacios-Baena, M.G. Caponcello, N. Maldonado, M.E. Giacomini, O. Vatamanu, M.E. De Rui, E. Razzaboni, M. Giannella, E. Tacconelli, J. Rodríguez-Baño*

00867 **Clinical and prognostic features of patients with haematological malignancies and COVID-19 pneumonia: a case-control study**
A. Oliva (Rome, Italy), L. Volpicelli, F. Cancelli, A. Curtolo, F. Cogliati-Dezza, C. Borrazzo, F. Gavaruzzi, S. Di Bari, C.M. Mastroianni, M. Venditti*

00868 **Clinical outcome in solid organ transplant recipients affected by COVID-19 compared to general population: a systematic review and meta-analysis**
M. Gatti (Bologna, Italy), M. Rinaldi, L. Bussini, C. Bonazzetti, R. Pascale, Z. Pasquini, F. Fanì, M. Guedes, A.M. Azzini, N. Maldonado, E. Reyna-Villasmil, E. Tacconelli, J. Rodriguez-Bano, P. Viale, M. Giannella*

OS215 **11:00 - 12:00** **Hall F**
1-Hour Oral Session

Let's keep social distance? STIs in 2022

Chairs *Emma Harding-Esch (London, United Kingdom)*
Jaime Labarca (Santiago, Chile)

00869 **Ceftriaxone monotherapy for the treatment of gonorrhoea in the Netherlands was not associated with any decrease in cephalosporin susceptibility**
C. Van Dijck (Antwerp, Belgium), C. Kenyon*

00870 **Genome-based epidemiology of Lymphogranuloma venereum in Spain: a prospective multi-centre study**
P. Salmerón Menendez (Barcelona, Spain), M. Vall-Mayans, L. Villa, L. Otero, M. María D., A. Milagro, S. Bernal, J. Serra-Pladevall, L. Piñeiro*

00871 **Do sexual transmitted diseases increase in people who live with HIV during COVID-19 pandemic?**
D.R. Akyol (Izmir, Turkey), D.R. Kaya, D.R. Pullukçu, D.R. Tasbakan, D.R. Soylu, D.R. Gökengin*

00872 **Sexual transmitted infections among undocumented sex workers: a twenty-year-long experience**
A. Colpani (Sassari, Italy), B. Zauli, A. De Vito, V. Fiore, S. Babudieri, G. Madeddu, A. Donisi*

00873 **Microbiological findings in prepubertal and pubertal girls with vulvovaginitis**
S. Baka (Athens, Greece), S. Demeridou, G. Kaparos, K. Tsoutsouras, S. Touloumakos, M. Dagre, S. Meretaki, V. Koumaki, A. Tsakris*

OS216 **11:00 - 12:00** **Hall J**

1-Hour Oral Session

Molecular evolution and new resistance mechanisms in Gram-negatives

Chairs *Athanasios Tsakris (Athens, Greece)*
Surbhi Malhotra-Kumar (Antwerp, Belgium)

00873A **_In vitro_ selection of ceftazidime/avibactam-resistant mutants derived from _Klebsiella pneumoniae_ producing OXA-48-like carbapenemases**
T. Blanco-Martín (Córdoba, Spain), J. Guzmán-Puche, C. Elías-López, M. Causse, L. Martínez-Martínez*

00874 **KSA-1, a new Ambler class A extended-spectrum β-lactamase**
C. Fournier (Fribourg, Switzerland), A. Kusaksizoglu, P. Nordmann, L. Poirel*

00875 **The search for chemotherapeutic drugs driving the evolution of antimicrobial resistance**
J. Guðmundsdóttir (Tromsø, Norway), E.G.A. Fredheim, K. Harms, Ø. Samuelsen, P.J. Johnsen*

00876 **Cystobactamids efficiently kill multidrug-resistant uropathogenic _Escherichia coli_ and a novel QseBC-regulated mechanism confers resistance via LPS modifications**
K. Cirnski (Saarbrücken, Germany), A. Jousset, T. Risch, D. Kohnhäuser, N. Zaburannyi, G. Testolin, L. Knegendorf, P. Chhatwal, L. Boucinha, M. Rima, A. Vassort, D. Schlüter, M. Brönstrup, T. Naas, J. Herrmann, R. Müller*

00877 **Positive epistasis drives the molecular evolution of the carbapenemase OXA-48**
C. Frohlich (Tromsø, Norway), A.H. Bunzel, A.J. Mulholland, M.W. Van Der Kamp, H.K. S. Leiros, P.J. Johnsen, N. Tokuriki*

OS217 **11:00 - 12:00** **Hall K**

1-Hour Oral Session

Innovations in CM/ID educational tools

Chairs *Daniel Grupel (Be'er Sheva, Israel)*
Kaisu Hellevi Rantakokko-Jalava (Turku, Finland)

00878 **Development of an innovative blended-learning course on rational antibiotic use for teaching of final-year medical students – the Freiburg "Antibiotika-Kompass"**
K. Stete (Freiburg, Germany), G. Fink, K. Bornkamm, S. Horn, W. Kern, S. Rieg*

00879 **MyKrobs: a tool to teach medical students**
A. Kritikos (Lausanne, Switzerland), C. Kebbi, G. Greub*

00880 **Massive open online course for the medical students' education on antibiotic therapy, Germany, 2021**
M. Wiese-Posselt (Berlin, Germany), S. Schneider, C. Bergmann, T.T. Lâm, A. Rörig, M.A. Feufel, O. Kurzai, P. Gastmeier*

00881 **An online curriculum is successful at improving knowledge, competence, and confidence of clinicians related to COVID-19 vaccines**
A. Larkin (New York, United States), A. Armagan*

00882 **An innovative teaching project in Infection Control and Infectious Diseases (ICID) for clinical phase-medical students: combining peer-teaching, game-based learning and inverted classrooms in a digital approach**
H. Kaba (Göttingen, Germany), M. Misailovski, J. Fippl, J.A. Bucio Garcia, J. Chrampanis, T. Artelt, S. Scheithauer*

OS218 **11:00 - 12:00** **Hall L**

1-Hour Oral Session

Global fungal epidemiology: what's emerging?

Chairs *Angela Loyse (London, United Kingdom)*
Rita Murri (Rome, Italy)

00883 **Landscape of invasive furasiosis in paediatric cancer patients: results of a multi-centre, observational study conducted in seven medical centres from Latin America**
F. Carlesse (São Paulo, Brazil), A. Silva, N. Litvinov, J. Sztajnbok, M. Otsuka, M.V. Arnoni., A.L.M. Albuquerque, K.M. Peron, H. Morales, F.D.A. Motta, R. Valenzuela, V. Contardo,, M.E. Santolaya, A.L. Colombo*

00884 **Invasive _Scedosporium_ and _Lomentospora prolificans_ infections in Australia: predisposing factors and clinical outcomes**
C. Neoh (Melbourne, Australia), S.C.A. Chen, A. Crowe, K. Hamilton, Q. Nguyen, D. Marriott, J. Trubiano, D.C.M. Kong, M.A. Slavin*

00885 **Transmission of _Candida auris_ outside of high-transmission wards during a _C. auris_ outbreak: beware of invasive infections**
L. Magnasco (Genoa, Italy), M. Mikulska, C. Sepulcri, F. Briano, D.R. Giacobbe, E. Balletto, C. Dentone, A. Vena, F. Portunato, M. Camera, F. Dodi, A. Orsi, A. Marchese, M. Bassetti*

00886 **Clinical characteristics and laboratory results of women diagnosed with Paracoccidioidomycosis in a tertiary hospital between 2001 and 2018**
J.F. Mari (São Paulo, Brazil), M. Taborda, B.D.A.L. Castro, E.L.D. Santos Junior, C.L.P.A. Bezerra, M.M.C. Magri*

00887 **Invasive fungal diseases in COVID-19 patients: a multi-centre observational cohort study in Israel**
M. Elbaz (Tel Aviv, Israel), R. Cohen, Y. Wiener-Well, A. Atamna, J. Bishara, Y. Shachor-Meyouhas, O. Ayalon, M. Korem, N. Maaravi, T. Brosh-Nissimov, B. Hazan, O. Zimhony, S. Reisfeld, M. Chowers, L. Nesher, Y. Maor, E. Katchman, R. Ben-Ami*

OS219 **11:00 - 12:00** **Hall M**
1-Hour Oral Session

Interventions to prevent HAIs: best learning experiences

Chairs *Antti J. Hakanen (Turku, Finland)*
Khetam Hussein (Haifa, Israel)

00888 **Burden of hospital-onset bloodstream infections caused by eight sentinel bacteria: a nationwide study in Israel**
A. Nutman (Tel Aviv, Israel), L. Wullfhart, E. Temkin, S. Feldman, V. Schechner, M. Schwaber, Y. Carmeli*

00889 **Risk factors for nosocomial acquisition and genomic epidemiology of extended-spectrum β-lactamase-producing *Enterobacteriaceae* in a high prevalence setting**
N.M. Nguyen (Antwerp, Belgium), P. Beryl, B.B. Xavier, M. Biggel, S. Van Puyvelde, C. Lammens, H. Goossens, Y. Carmeli, E. Tacconelli, S. Malhotra-Kumar*

00890 **Successful containment of a cluster of invasive candidiasis caused by fluconazole-non-susceptible *Candida parapsilosis* in a neonatal intensive care unit**
H. Baba (Sendai, Japan), H. Kanamori, T. Sato, M. Katsumi, T. Chida, S. Ikeda, K. Tokuda*

00891 **Increased hand hygiene adherence in hospitals during high SARS-CoV-2 activity: data from a Swiss national surveillance system**
S. Rüfenacht (St. Gallen, Switzerland), P. Kohler, R. Kuhn, D. Flury, A. Widmer, M. Schlegel*

00892 **Anti-superbugs PCP: a cross-border joint action to improve healthcare-associated infections prevention and control systems**
I. Arrizabalaga Garde (Barcelona, Spain), M. Sanchis Amat, R. Alessandrello, R. Maspons Bosch, E. Limón Cáceres*

OS220 **11:00 - 12:00** **Hall Q**
1-Hour Oral Session

Secrets of *Clostridioides difficile*

Chairs *Marcela Krutova (Prague, Czech Republic)*
Elena Reigadas (Madrid, Spain)

00893 **Longitudinal evaluation of gut microbiome after faecal microbiota transplantation for eradicating clostridioides difficile infection**
G. Ianiro (Rome, Italy), S. Porcari, N. Karcher, M. Puncochár, M. Valles Colomer, G. Quaranta, S. Bibbò, S. De Giorgi, L. Masucci, M. Sanguinetti, A. Gasbarrini, G. Cammarota, N. Segata*

00894 **Comparison of prevalence of toxigenic *Klebsiella oxytoca* in stool samples submitted for *Clostridioides difficile* testing with or without simultaneous stool culture versus stool culture only**
M. Pirs (Ljubljana, Slovenia), M. Novak, B. Pavlakovic, N. Krošelj, E. Kvas, I. Kovacic, T. Teržan, E. Jarc, T. Cerar Kišek*

00895 **Changes in the gut microbiota of preterm neonates according to *Clostridioides difficile* colonisation**
J. Couturier (Paris, France), P. Lepage, S. Jolivet, J. Delannoy, P.Y. Ancel, J.C. Rozé, M.J. Butel, F. Barbut, J. Aires*

00896 **National decrease in *Clostridioides difficile* infection prevalence in the United States during the COVID-19 pandemic**
K. Strey (San Antonio, United States), E. Young, K. Reveles*

00897 **Clinical data should be considered when profiling the gut microbiome of patients with *Clostridioides difficile* infection**
D. Castañeda-Mogollón (Calgary, Canada), C. Doolan, N. Toppings, R. Amarasekara, T.A. Tran, D. Pillai*

OS221 **11:00 - 12:00** **Hall D**
1-Hour Case Session

Treatment alternatives for unusual clinical situations

Chair *Thierry Calandra (Lausanne, Switzerland)*

00898 **Use of ceftazidime-avibactam and aztreonam for VIM producing Enterobacterales infections in infant setting: an italian mono-centre case series**
F. Esposito (Bologna, Italy), C. Campoli, M. Giannella, S. Tedeschi, F. Tumietto, S. Ambretti, M.C. Mondardini, F. Caramelli, M.G. Capretti, L. Corvaglia, F. Pea, P. Viale*

00899 **Ceftazidime-avibactam plus aztreonam as alternative treatment for metallo-beta-lactamase producing Gram-negative bacteria**
B. Leal De Almeida (São Paulo, Brazil), M.L.M. Moura, C.S. Donini, L.N.D.A. Gouveia, L.B. Carvalho, M.B. Antonio, J.L.M. Sampaio, L.A. Hajjar, E.G. Kallas*

00900 **Colistin for the treatment of osteoarticular infections caused by extensively drug-resistant *Pseudomonas aeruginosa*: pharmacokinetics, safety and clinical efficacy**
J. Gómez-Junyent (Barcelona, Spain), L. Sorli, S. Luque, N. Campillo, L. Puig, A. Alier, D. Pérez-Prieto, N. Prim, M.M. Montero, I. Pelegrín, S. Grau, J.P. Horcajada*

00901 **Faecal microbiota transplantation for two cases of immune checkpoint inhibitor-induced colitis; clinical and microbial course**
B. Groenewegen (Leiden, Netherlands), E.M. Terveer, A. Joosse, M.C. Barnhoorn, R.D. Zwittink*

00902 **The use of intravesical antibiotics in the treatment of recurrent urinary tract infections: a case series**
J. Harte (Dublin, Ireland), S. O'regan, A. Mcgreal-Bellone, P. Carey, A. Heeney, E. Debarra*

OF222 **11:00 - 12:00** **Hall C**

1-Hour Mini-oral Flash Session

Viral respiratory infections: influenza and RSV

Chairs *Debby Bogaert (Edinburgh, United Kingdom)*
Eskild Petersen (Aabyhoj, Denmark)

00903 **Permanent virological surveillance of influenza-like illness (ILI) during the COVID-19 pandemic: a successful tool to uncover unexpected respiratory viral infection outbreaks**
L. Pellegrinelli (Milan, Italy), L. Bubba, C. Galli, A. Seiti, G. Anselmi, V. Primache, F. Novazzi, F. Maggi, S.C. Uceda Renteria, P.G. Della Valle, L. Crottogini, D. Cereda, S. Binda, E. Pariani*

00904 **Impact of integrating routine, syndromic molecular Point-of-Care testing for SARS-CoV-2 and other respiratory viruses into an acute oncology service**
K. Beard (Southampton, United Kingdom), F. Borca, H.T. Phan, A. Tanner, N. Brendish, T. Clark*

00905 **Multi-centre analysis of influenza seroprotection rate in vaccinated patients admitted to cardiac intensive care units (C-ICUs) during 3 influenza seasons**
A. Galar (Madrid, Spain), I. Sanz-Muñoz, J.M. Eiros-Bouza, P. Catalán, R. Alonso, A. Cobos, M. Juárez, I. Sousa-Casasnovas, M. Valerio, P. Antunez, G. Barbeito, S. Blanco, M.D. Folgueira, J.M. García-Acuña, A. Lalueza, F. Lázaro, E. López De Sá, L. Martín, E. Muñez, F. Portero, A. Ramos, M.P. Romero, S.O. Rosillo, M. Martínez-Sellés, F. Fernández-Avilés, E. Bouza, P. Muñoz*

00906 **Safety and immunogenicity of mRNA-1345, an mRNA-based vaccine against respiratory syncytial virus in older adults**
G. Chen Phillips (Cambridge, United States), R. Mithani, A. Kapoor, S. Lu, C. Shaw, A. August*

00907 **Comparison between inpatients with COVID-19 and influenza requiring oxygen therapy in a cohort study: clinical impact and resources consumption**
I. Lopez Montesinos (Barcelona, Spain), I. Arrieta Aldea, A. Dicastillo, M.M. Montero, A. Siverio Parès, L. Sorli, M.M. Arenas, E. Sendra, E. Cañas Ruano, S. Castañeda, I. Pelegrin Senent, J. Gómez Junyent, J. Villar García, F. Sanchez Martinez, H. Knobel, R. Guerri, S. Gomez Zorrilla, J.P. Horcajada*

00908 **Regimen selection and 1.5-year immunogenicity evaluation of prophylactic Ad26.RSV.preF vaccine combinations: a randomised, double-blind, placebo-controlled, adaptive design phase I/IIa study in adults ≥60 years of age**
C. Comeaux (Leiden, Netherlands), S. Bart, A.R. Bastian, E. Omoruyi, E. De Paepe, R. Van Heesbeen, E. Heijnen, B. Callendret, J. Sadoff*

00909 **Efficacy and immunogenicity of an Ad26.RSV.preF-based vaccine for the prevention of RSV-mediated lower respiratory tract disease by age and risk level subgroups in adults aged ≥65 years in a randomised, placebo-controlled, phase IIb study**
A. Falsey (Rochester, United States), K. Williams, E. Gymnopoulou, S. Bart, J. Ervin, A.R. Bastian, J. Menten, E. De Paepe, S. Vandenberghe, E. Chan, J. Sadoff, M. Douoguih, B. Callendret, C.A. Comeaux, E. Heijnen*

00910 **Long-term durability of antigen-specific polyfunctional CD4+ T cell responses against vaccine-homologous and antigenically drifted viruses: results of a phase III trial of a recombinant quadrivalent hemagglutinin saponin-adjuvanted nanoparticle influenza vaccine in older adults**
V. Shinde (Gaithersburg, United States), H. Zhou, W. Woo, J. Plested, T. Vincent, B. Zhou, M. Zhu, C.F. Shih, S. Cloney-Clark, R. Cai, G. Albert, M. Massare, L. Fries, G. Smith, I. Cho, G. Glenn*

00911 **The significance of thrombocytopenia and lymphopenia in patients infected with influenza virus: a cohort study**
A. Sherban (Petah Tikva, Israel), R. Hussen, A. Gafter-Gvili, A. Atamna, J. Bishara, P. Raanani, K. Ben Tikva Kagan, T. Avni*

OF223 **11:00 - 12:00** **Hall H**

1-Hour Mini-oral Flash Session

Enhancing antibiotic therapy against biofilms with combined treatments

Chairs *Enea Gino Di Domenico (Rome, Italy)*
Nis Pedersen Jørgensen (Aarhus, Denmark)

00912 **Impact of adequacy and bi-antibiotic therapy on VAP healing: use of a hierarchical end-point and win-ratio strategy**
J. Timsit (Paris, France), J.R. Zahar, E. Weiss, S. Ruckly, S. Bailly*

00913 **Exposure to the cancer chemotherapy drug bleomycin selects for reduced antibiotic susceptibility in *Escherichia coli***
B. Evans (Norwich, United Kingdom), E. Li*

00914 **Role of extracellular DNA in dalbavancin activity against MRSA biofilms from patients with complicated skin and soft tissue infections**
F. Sivori (Rome, Italy), I. Cavallo, F. Ensoli, E.G. Di Domenico*

00915 **Activity of ceftobiprole (CFB) and daptomycin (DPT) against biofilm-embedded methicillin-resistant *Staphylococcus aureus* (MRSA): results of an *in vitro* PK/PD dynamic model**
M.Á Meléndez (Madrid, Spain), M. Mancheño, C. Lumbreras, E. Viedma, J. Lora-Tamayo*

O0916 **Antibiotic combination therapy against methicillin-resistant *Staphylococcus aureus* prosthetic vascular graft infection in rats**
M.I. Johansen (Aarhus, Denmark), M.E. Petersen, E. Faddy, I. Monrad, L. Østergaard, R.L. Meyer, N.P. Jørgensen*

O0917 **The polyamino-isoprenic potentiator NV716 revives the disused antibiotic rifampin against biofilm infection by Gram-negative ESKAPE pathogens**
F. Van Bambeke (Brussels, Belgium), G. Wang, J.M. Brunel, N. Mozaheb, J.M. Bolla*

O0918 **Synergistic bacteriophage-antibiotic combinations against MRSA biofilm infections**
R. Kebriaei (Detroit, United States), K. Lev, R. Shah, K. Stamper, D. Holger, T. Morrisette, A. Kunz Coyne, S. Lehman, M. Rybak*

O0919 **The use of bacteriophages in combination with gentamicin and vancomycin against biofilm formed by *Enterococcus faecalis***
M. Voit (Berlin, Germany), A. Trampuz, M. Gonzalez-Moreno*

O0920 **Development of a thermo-responsive hydrogel as a carrier for biofilm targeting enzymes and antimicrobials for the treatment of orthopaedic device-related infections**
H. Poilvache (Brussels, Belgium), A. Freyberg, O. Cornu, F. Van Bambeke*

VW224 **11:00 - 12:00** **Arena 2**
Virtual Walk Through

More on resistance mechanisms in Gram-negatives

Moderator *Fiona Walsh (Maynooth, Ireland)*
Reviewer *Margaret Ip (Hong Kong, China)*

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SY225 **13:30 - 15:30** **Hall B**
Symposium

New antibiotics in the pipeline: where and what did we get?

Chairs *Ursula Theuretzbacher (Vienna, Austria)*
Jeroen Schouten (Nijmegen, Netherlands)

S0921 **13:30** **Selected natural product- and pathoblocker-based approaches for combating Gram-negatives**
Rolf Müller (Saalbrücken , Germany)

S0922 **14:00** **New antibiotics against Gram-negatives in the clinic**
Marc J.M. Bonten (Utrecht, Netherlands)

S0923 **14:30** **New drugs against Gram-positives: preclinical and clinical landscape**
Warren Rose (Madison, United States)

S0924 **15:00** **Stewardship approaches for new antibiotics**
Pilar Retamar Gentil (Seville, Spain)

CM

SY226 **13:30 - 15:30** **Hall H**
Symposium

Pathogen competition and co-evolution in the microbiome

Chairs *Ed Kuijper (Leiden, Netherlands)*
Francois Vandenesch (Lyon, France)

S0925 **13:30** **Bacterial competition in the nasal microbiome**
Andreas Peschel (Tübingen, Germany)

S0926 **14:00** **Type VII secretion and death of co-colonisers**
Tracy Palmer (Newcastle upon Tyne, United Kingdom)

S0927 **14:30** **Within population diversification in the host**
Daniel Lopez (Madrid, Spain)

S0928 **15:00** **TBA**

Co-organised with: ESCMID Study Group for Staphylococci and Staphylococcal Diseases (ESGS)

CM

SY227 **13:30 - 15:30** **Hall I**
Symposium

Plasmid curing for combating antibiotic resistance

Chairs *Jaroslav Hrabak (Plzen, Czech Republic)*
Costas Papagiannitsis (Larissa, Greece)

S0929 **13:30** **Plasmids: their role in antibiotic resistance**
Monika Dolejska (Brno, Czech Republic)

S0930 **14:00** **Anti-plasmids and plasmid curing compunds**
Michelle Buckner (Birmingham, United Kingdom)

S0931 **14:30** **CRISPR-Cas systems for plasmid curing**
Morten H.H. Norholm (Lyngby, Denmark)

S0932 **15:00** **Toxin-antitoxin systems of plasmids as possible targets for plasmid curing**
Alessandra Carattoli (Rome, Italy)

CM

SY228 **13:30 - 15:30** **Hall J**
Symposium

Genomic surveillance to inform development and implementation of anti-bacterial vaccines

Chairs *Stephanie Lo (Oxford, United Kingdom)*
Sam Kariuki (Nairobi, Kenya)

S0933 **13:30** **Genomic tracking of *Bordetella pertussis* antigenic variant emergence in relation to diverse vaccine compositions**
Sylvain Brisse (Paris, France)

S0934 **14:00** **Genomic surveillance for enteric fever in the early phase of new vaccine rollout**
Firdausi Qadri (Dhaka, Bangladesh)

S0935 **14:30** **Using genomics to tailor meningococcal vaccine choice**
Charlene Rodrigues (London, United Kingdom)

S0936 **15:00** **Genomic surveillance and sero-epidemiology of *Klebsiella pneumoniae***
Kelly Leanne Wyres (Melbourne, Australia)





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EW229 **13:30 - 15:30** **Hall E**

Educational Workshop

Behavioural science essentials for antimicrobial stewards

Chairs *Esmita Charani (London, United Kingdom)*
Vera Vlahovic-Palcevski (Rijeka, Croatia)

W0937 **13:30** **Antibiotic prescribing as a decision-making process**
Sara Cosgrove (Baltimore, United States)

W0938 **14:00** **A behavioural analysis of antibiotic prescribing**
Susan Michie (London, United Kingdom)

W0939 **14:30** **Choosing and implementing interventions to modify prescribing behaviour**
Marlies Hulscher (Nijmegen, Netherlands)

PH

EW230 **13:30 - 15:30** **Hall G**

Educational Workshop

Transdisciplinary approach to Global Health: the case of Neglected Tropical Diseases

Chairs *TBA*
Sally Hargreaves (London, United Kingdom)

W0940 **13:30** **One Health approach for NTD control programmes**
Bernadette Abela-Ridder (Le Muids, Switzerland)

W0941 **14:00** **Novel approaches to screening for neglected tropical diseases in migrants**
Emmanuel Bottieau (Antwerp, Belgium)

W0942 **14:30** **New therapeutical approaches to Neglected Tropical Diseases**
Zeno Bisoffi (Negrar, Italy)

Co-organised with: ESCMID Study Group for Infections in Travellers and Migrants (ESGITM)

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EW231 **13:30 - 15:30** **Hall M**

Educational Workshop

Hot topics in paediatric COVID

Chairs *Sanjay Patel (Southampton, United Kingdom)*
Fernanda Rodrigues (Coimbra, Portugal)

W0943 **13:30** **Monoclonal antibodies to treat children and adolescents**
Susanna Esposito (Parma, Italy)

W0944 **14:00** **Treatment of multisystem inflammatory syndrome**
Michael Levin (London, United Kingdom)

W0945 **14:30** **Long COVID in the paediatric age**
TBA

Co-organised with: World Association for Infectious Diseases and Immunological Disorders (Waidid)

OS232 **13:30 - 15:30** **Hall C**

2-Hour Oral Session

Advances in infection prevention and control (beyond COVID-19)

Chairs *Daniel Diekema (Iowa City, United States)*
Julia Ebner (Vienna, Austria)

O0946 **Newly isolated bacteriophages for the control of *Klebsiella pneumoniae* strains producing New Delhi beta-metallo lactamase**
M. Di Luca (Pisa, Italy), M. Luongo, S.C. Bancheri, C. Giordano, S. Barnini, D. Bottai, A. Tavanti*

O0947 **Long-term dynamics of the intensive care unit "ward resistome and microbiome" using pooled faecal patient samples**
S. Aracil-Gisbert (Madrid, Spain), M.D. Fernández-De-Bobadilla, A.E. Pérez-Cobas, C. Soriano-Cuesta, M. López-Olivencia, G. Narváez, V. Quinteros-Fiel, N. Guerra-Pinto, V.F. Lanza, R. Cantón, R. De Pablo, F. Baquero, T.M. Coque*

O0948 **Minimum requirements for national infection prevention and control programmes: interim results from the WHO Global Survey 2021**
E. Tartari (Geneva, Switzerland), A. Twyman, S. Tomczyk, P. Rogers, M. Gomaa, M. Talaat, A.P. Coutinho-Rehese, J. Paulo, A. Singh Shah, H. Sobel, B. Allegranzi*

O0949 **Natural language processing tool to improve use of electronic health records data for surgical site infection surveillance at the Bambino Gesù Children's Hospital, IRCCS, Rome, Italy**
C. D'amore (Rome, Italy), S. Piga, F. Pecoraro, B. Zama, M. Ciofi Degli Atti, M. Raponi*

O0950 **Environmental sampling practices of dry hospital surfaces: a need for guidance and standardisation?**
A.S. Van Der Schoor (Rotterdam, Netherlands), M. Boyle, M.C. Vos, H. Humphrey*

O0951 **Risk factors for *Staphylococcus aureus* ventilator-associated pneumonia in critically ill *S. aureus* carriers: a post-hoc analysis of two large, European, prospective studies**
M.E.A. De Kraker (Geneva, Switzerland), M. Boisson, J. Sauser, C. Recanatini, H. Van Werkhoven, F. Paling, N. Buetti, D. Vandamme, S. Harbarth, J. Chastre, J. Kluytmans, A. Ruzin, H. Jafri, B. François*

O0952 **Gut *Proteobacteria* and antimicrobial resistance gene decolonisation in participants with *Clostridioides difficile* infection using a microbial ecosystem therapeutic (MET-2)**
A. Rooney (Toronto, Canada), K. Cochrane, S. Anwer, S. Dehmiwal, S. Hota, S. Poutanen, E. Allen-Vercoe, B. Coburn*

O0953 **Efficacy data from ECOSPOR-III: a phase III , double-blind, placebo-controlled, randomised trial of SER-109, an investigational microbiome therapeutic for patients with recurrent *Clostridioides difficile* infection**
M. Wilcox (Leeds, United Kingdom), T. Louie, P. Feuerstadt, E. Wang, L. Von Moltke, B. Mcgovern*

00954 **Microbiology and inappropriate empiric treatment in non-ventilated (nvHABP), ventilated (vHABP) hospital-acquired and ventilator-associated (VABP) bacterial pneumonia in the US, 2014-2019**
M. Zilberberg (Goshen, United States), B. Nathanson, L. Puzniak, R. Dillon, A. Shorr*

00955 **Semi-automated surveillance of deep surgical site infections after colorectal surgeries: a multi-centre external validation of two surveillance algorithms**
J. Verberk (Utrecht, Netherlands), T. Van Der Kooi, S. De Greeff, D. Hetem, N. Oostdam, M. Noordergraaf, M. Bonten, M. Van Mourik*

OS233 **13:30 - 15:30** **Hall F**
2-Hour Oral Session

Whole genome and metagenomic sequencing in surveillance and resistance detection of bacteria

Chairs *Robin Patel (Rochester, United States)*
Vitali Sintchenko (Sydney, Australia)

00956 ***Staphylococcus aureus* colonising nares of patients undergoing surgery in European hospitals exhibit high clonal diversity**
L. Timbermont (Antwerp, Belgium), J. Vlaeminck, B.B. Xavier, C. Lammens, T. Vilken, J. Coppens, D.P.R. Troeman, J.A.J.W. Kluytmans, A. Ruzin, M.T. Esser, H. Goossens, S. Malhotra-Kumar*

00957 **Linezolid resistance in *Enterococcus faecium* from hospitalised patients at Copenhagen University Hospital, Rigshospitalet**
M. Misiakou (Copenhagen, Denmark), F.B. Hertz, K. Thomsen, K. Schønning, K.L. Nielsen*

00958 **Penicillin binding protein substitutions co-occur with fluoroquinolone resistance in 'epidemic' lineages of multidrug-resistant *Clostridioides difficile***
K. Dingle (Oxford, United Kingdom), J. Freeman, X. Didelot, D. Eyre, J. Swann, W. Spittal, E. Clark, K. Jolley, S. Walker, M. Wilcox, D. Crook*

00959 **Molecular epidemiological characterisation of a Swiss legacy collection of methicillin-resistant *Staphylococcus aureus* (MRSA)**
V. Benvenga (Basel, Switzerland), A. Cuénod, S. Purushothaman, G. Dasen, H. Seth-Smith, T. Roloff, A. Egli*

00960 **What do genomes tell us about the epidemic potential of hospital-associated *Enterococcus faecium* lineages? Results from a National Reference Centre, 1998-2021, Germany**
J. Bender (Wernigerode, Germany), R. Weber, C. Fleige, M.A. Fischer, G. Werner*

00961 **Establishing the predictive power of whole genome sequencing to determine antimicrobial susceptibility of *Escherichia coli* and *Klebsiella pneumoniae***
L. Turner (Cardiff, United Kingdom), M. Mentasti, L. Jones, M. Wootton*

00962 **ResFinderFG 2.0: an antibiotic resistance genes database obtained by functional metagenomics**
R. Gschwind (Paris, France), M. Petitjean, S.U. Perovic, L.P. Coelho, E. Ruppé*

00963 **Evaluation of metagenomic, 16S rRNA and ultra-high multiplexed PCR-based sequencing approaches for profiling AMR and taxonomic composition of a well-defined DNA mock**
K. Chau (Oxford, United Kingdom), S. Lipworth, L. Newbold, H. Tipper, D. Crook, S. Walker, D. Read, N. Stoesser*

00964 **Benchmarking software to predict antibiotic resistance phenotypes in shotgun metagenomes using simulated data**
E. Wissel (Atlanta, United States), B. Talbot, B. Johnson, R. Petit, V. Hertzberg, A. Dunlop, T. Read*

00965 **A method to reduce false-positive results when detecting the *bla*$_{TEM}$ gene**
M. Gistas-Loscos (Zaragoza, Spain), N. Díez-Roda, S. Sentre-Domingo, F. Pardos-Bernad, L. Llobet-Sesé, C. Escolar*

OS234 **13:30 - 15:30** **Hall K**
2-Hour Oral Session

Detection of antimicrobial resistance: from conventional to the very edge

Chairs *Colin R. Mackenzie (Düsseldorf, Germany)*
Spyros Pournaras (Athens, Greece)

00966 **Impact of a multiplex PCR assay for the diagnosis of bacterial pneumonia in COVID-19 patients on antibiotic prescribing decisions at five UK ICUs**
K. Roulston (London, United Kingdom), D. Zaneeta, D. Livermore, V. Gant, V. Enne*

00967 **Evaluating the reliability and clinical impact of the direct rapid antimicrobial susceptibility test (dRAST) for blood culture in a UK-based hospital population**
C. Chan (Coventry, United Kingdom), S. Davison, N. Ratnaraja, K. Holland*

00968 **Real-time automated screening of MDR and pathogenic bacteria using scanstation automaton and chromogenic media**
J. Peyroux (Grenoble, France), Y. Caspar, M. Maurin*

00969 **Implementation of lateral flow immunoassays in the workflow of blood cultures for rapid detection of carbapenemases and extended-spectrum β-lactamases: insights from a three-year experience**
S. Comini (Turin, Italy), G. Bianco, M. Boattini, R. Casale, M. Iannaccone, R. Cavallo, C. Costa*

00970 **Impact of new testing device on the clinical management of patients suffering from enterobacterial sepsis**
M. Potvin (Brussels, Belgium), N. Sanou, M. Muys, F. De Bièvre, G. Verschelden, E. Larranaga Lapique, M. Hites, D. Martiny*

00971 **A label-free coulter counter for rapid determination of phenotypic antimicrobial susceptibility**
Q. Yi (Beijing, China), J. Cui, Y.C. Xu*

00972 **Understanding critical care clinicians' beliefs of rapid multiplex molecular diagnostic tests in clinical practice: a qualitative application of the Necessity Concerns Framework**
A.M. Pandolfo (London, United Kingdom), R. Horne, Y. Jani, Z. Moon, D. Brealey, V.I. Enne, D.M. Livermore, V. Gant, S.J. Brett*

00973 **A two-site performance validation study of a two-hour antimicrobial susceptibility flow cytometry assay directly from positive blood cultures**
R. Cantón (Madrid, Spain), B. Pérez-Viso, A. Silva-Dias, R. Gomes, I. Martins-Oliveira, A. Gonçalves-Rodrigues, C. Pina-Vaz*

00974 **Clinical evaluation of two commercial assays for the detection of fluoroquinolone resistance in *Mycoplasma genitalium***
S. Pereyre (Bordeaux, France), M. Gardette, N. Hénin, C. Le Roy, J. Guiraud, A. Touati, C. Bébéar*

00975 **A rapid adenosine triphosphate (ATP) bioluminescence-based assay for predicting antibiotic combinations against carbapenem-resistant Enterobacterales (CRE)**
T.P. Lim (Singapore, Singapore), J.H. Yeo, Y. Cai, N. Begam, N. Muhammad Fauzi, F.H.S. Wong, J.Q. Teo, T.T. Tan, J.H. Sim, A.L. Kwa*

OS235 **13:30 - 15:30** **Hall N**
2-Hour Oral Session

COVID-19 vaccine immunogenicity, efficacy and effectiveness

Chairs *Bettie Voordouw (Culemborg, Netherlands)*
Joanne M. Langley (Halifax, Canada)

00976 **TACTIC study: timing and sequence of vaccination against COVID-19 and influenza**
E. Dulfer (Nijmegen, Netherlands), J.S. Van De Maat, J. Dominguez-Andrés, M.I. De Jonge, B. Geckin, Y. Li, C.H. Geurts-Van Kessel, R. Van Crevel, M.G. Netea*

00977 **Effectiveness and durability of protection against future SARS-CoV-2 infection conferred by COVID-19 vaccination and previous infection: findings from the UK SIREN prospective cohort study of healthcare workers March 2020 to September 2021**
V. Hall (London, United Kingdom), S. Foulkes, F. Insalata, A. Saei, P. Kirwan, A. Atti, E. Wellington, J. Khawam, K. Munro, M. Cole, C. Tranquillini, A. Taylor-Kerr, N. Hettiarachchi, D. Calbraith, N. Sajedi, I. Milligan, Y. Themistocleous, D. Corrigan, L. Cromey, L. Price, S. Stewart, E. Delacy, C. Norman, E. Linley, A. Otter, S. D'arcangelo, A. Semper, J. Hewson, M. Chand, C. Brown, T. Brooks, J. Islam, A. Charlett, S. Hopkins*

00978 **Humoral and cellular immunity to SARS-CoV-2 from vaccination and infections: the UK PITCH consortium**
S. Dunachie (Oxford, United Kingdom)*

00979 **Increasing COVID-19 vaccination rates among vaccine hesitant and underserved communities in the south west of England: insights from the Maximising Uptake Programme**
I. Berrou (Bristol, United Kingdom), K. Hamilton, N. Walsh*

00980 **Determinants of SARS-CoV-2 anti-spike antibody levels following BNT162b2 vaccination: a cross-sectional analysis of 6,000 UK healthcare workers (SIREN study)**
A. Otter (Porton, United Kingdom), S. D'Arcangelo, H. Whitaker, A. Atti, S. Foulkes, J. Hewson, E. Linley, S. Tonge, M. Cole, N. Hettiarachchi, N. Sajedi, D. Calbraith, I. Milligan, C. Tranquillini, J. Islam, V. Hall, A. Semper, S. Hopkins, T. Brooks*

00981 **Ecologic study on the effectiveness of COVID-19 vaccines in 853 counties from Minas Gerais State, Brazil: effect of the denialist attitude of the current Brazilian president**
C. Bráulio (Belo Horizonte, Brazil), S. Carlos, L.E.S. Gregory, P. Bruna, C. Gabriela, S. Nicole, D. Felipe, A. Isabela, Q. Sofia, R. Leonora, S. Vinícius, A. Camila*

00982 **Antibody responses to SARS-CoV-2 elicited by the multivalent, variant-matched booster mRNA-1273.211 vaccine among adults**
S. Chalkias (Cambridge, United States), F. Eder, B. Essink, S. Khetan, B. Nestorova, J. Feng, H. Zhou, D.K. Edwards, D. Montefiori, R. Pajon, B. Leav, R. Das, J.M. Miller*

00983 **COVID-19 vaccine breakthrough infections in the metropolitan area of Barcelona population: an observational study**
S. Alonso (Sant Cugat Del Vallès, Spain), D. Ferrandiz, I. Vendrell, L. Clotet, I. Parron, I. Barrabeig, A. Romero, M.R. Sala, M. Jane*

00984 **Efficacy of bacillus Calmette-Guérin vaccination against respiratory tract infections in the elderly during the COVID-19 pandemic**
E. Taks (Nijmegen, Netherlands), S. Moorlag, T. Ten Doesschate, T. Van Der Vaart, A. Janssen, L. Müller, P. Ostermann, H. Dijkstra, H. Lemmers, E. Simonetti, M. Mazur, H. Schaal, R. Ter Heine, F. Van De Veerdonk, C. Bleeker-Rovers, R. Van Crevel, J. Ten Oever, M. De Jonge, M. Bonten, C. Van Werkhoven, M. Netea*

00985 **Immunogenicity and safety of an intradermal ChAdOx1 nCoV-19 booster in healthy population**
N. Pinpathomrat (Songkhla, Thailand), P.I. Intapiboon, P.S. Seepathomnarong, J.O. Ongarj, S.M.S. Surasombatpattana, S.U. Uppanisakorn, S.M. Mahasirimongkol, W.S. Sawaengdee, S.P. Phumiamorn, S.S. Sapsutthipas, C.K. Kongkamol, T.I. Ingviya, P.S. Sangsupawanich, S.C. Chusri*

OS236 **13:30 - 14:30** **Hall O**

1-Hour Oral Session

RTI: think not only about COVID

Chairs *Catia Cilloniz Campos (Barcelona, Spain)*
Olivier Denis (Brussels, Belgium)

00986 **Empiric treatment for bacteraemic pneumococcal pneumonia that includes macrolides is associated with lower mortality, a retrospective nationwide cohort, Israel, 2009-2017**
M. Chowers (Kfar-Saba, Israel), S. Gerassy, R. Cohen-Poradosu, J. Bishara, B. Chazan, Y. Maor, O. Zimhony, Y. Weiner-Well, R. Dagan, G. Regev-Yochay*

00987 **The determinants and dynamics of nasopharyngeal bacterial profiles during early childhood: findings from a South African birth cohort**
S. Claassen-Weitz (Cape Town, South Africa), S. Gardner-Lubbe, Y. Xia, K.S. Mwaikono, H.J. Zar, M.P. Nicol*

00988 **Continued dominance of serotype 3 in paediatric complicated pneumococcal pneumonia in Portugal, five years after PCV13 introduction into routine infant immunisation**
C. Silva-Costa (Lisbon, Portugal), J. Gomes-Silva, M.D. Pinho, A. Friães, M. Ramirez, J. Melo-Cristino*

00989 **Host genetic variants associated with the severity of community-acquired pneumonia**
L. Boix-Palop (Terrassa, Spain), B. Dietl, P. Josefa, A. María Jesús, E. Calbo*

00990 **Bacterial biofilms predominate in both acute and chronic human lung infections**
M. Kolpen (Copenhagen, Denmark), K.N. Kragh, J.B. Enciso, D. Faurholt-Jepsen, B. Lindegaard, G.B. Egelund, A.V. Jensen, P. Ravn, I.H.M. Mathiesen, A.G. Gheorghe, F.B. Hertz, T. Qvist, M. Whiteley, P.Ø. Jensen, T. Bjarnsholt*

OS237 **13:30 - 14:30** **Hall D**

1-Hour Case Session

Intriguing cases of viral infections

Chair *Anna Checkley (London, United Kingdom)*

00991 **Long-term persistence and within-host evolution of SARS-CoV-2 infection in a patient with follicular lymphoma**
E. Christaki (Ioannina, Greece), K. Gartzonika, C. Kostoulas, E. Hatzimichael, C. Kyriakopoulos, A. Gogali, D. Potonos, A. Simou, V. Bellou, M. Kosmidou, E. Zervou, A. Liontos, P. Sakaloglou, I. Bouba, P. Ladias, I. Georgiou, P. Bozidis, D. Biros, K. Papathanasiou, G. Papamichail, L. Athanasiou, V. Samanidou, S. Filippas-Ntekouan, K. Georgoulas, K. Konstantinos, H. Milionis*

00992 **CNS damage due to cytomegalovirus infection (case series)**
B. Polgarova (Bratislava, Slovakia), A. Mamova, H. Habanova, A. Cunderlík, I. Rusnák*

00993 **SARS-CoV-2's high rate of genetic mutation under immune selective pressure: from oropharyngeal B.1.1.7 to intrapulmonary B.1.533 in a post-vaccine patient**
S. Stefani (Catania, Italy), N. Musso, J. Maugeri, D. Bongiorno, S. Stracquadanio, G. Bartoloni, E. Di Stefano*

00994 **Cardiac tamponade in severe dengue: a case series and literature review**
C. Pascasio (Taguig, Philippines), C. Baluyot, K.B. Tolentino, N. Alumno, R. Divinagracia*

00995 **Cervical myelitis with bilateral optic neuritis and retroperitoneal haematoma in dengue haemorrhagic fever: a case report**
S. Devi (Bhubaneswar, India), S. Naik, N. Kar*

OF238 **13:30 - 14:30** **Hall L**

1-Hour Mini-oral Flash Session

Epidemiology of antifungals resistance and susceptibility to new antifungal drugs

Chairs *Rita Murri (Rome, Italy)*
Joshua Nosanchuk (New York, United States)

00996 **Azole resistance and genotyping of *Candida glabrata* bloodstream isolates in Taiwan**
P.Y. Chen (Taipei, Taiwan, China), J.T. Wang, W.H. Sheng, S.C. Chang*

00997 **The Danish fungaemia surveillance: a 2019-2020 update**
K. Astvad (Valby, Denmark), R.K. Hare, K.M. Jørgensen, H.K. Johansen, L. Kristensen, J.B. Gertsen, M. Pedersen, V.S. Antsupova, F. Rosenvinge, B.L. Røder, S. Sulim, J.K. Møller, R. Datcu, T.S. Søndergaard, M.C. Arendrup*

00998 **Performance of isavuconazole against clinically relevant *Trichosporon* species: an overview of its triazole profile**
E.C. Francisco (São Paulo, Brazil), C. Dieleman, F. Hagen, A.L. Colombo*

00999 **Nationwide surveillance of antifungal resistance among *Candida* bloodstream isolates of South Korean hospitals: the first 2-year report from Kor-GLASS**
E.J. Won (Gwangju, Korea, Republic of), D. Kim, S.H. Jeong, K.S. Shin, J.H. Shin, Y.R. Kim, H.S. Kim, Y.A. Kim, Y. Uh, N. Rhoo, M.J. Choi, S.A. Byun, S.H. Kim, J.H. Shin*

01000 **Antifungal resistance in *Candida* spp. isolates from blood and abdominal cavity samples in Madrid (CANDIMAD survey): activity of old antifungal drugs along with ibrexafungerp**
J. Guinea (Madrid, Spain), J. Díaz-García, A. Perez-Ayala, E. Gómez-García De La Pedrosa, F. González Romo, M.S. Cuétara, A. Sánchez-García, C. García-Esteban, N. Zurita, M. Muñoz-Algarra, I. Quiles-Melero, M.T. Durán-Valle, E. Reigadas, L. Alcalá, C. Sánchez-Carrillo, P. Muñoz, P. Escribano*

01001 **Analysis of ERG11 gene in azoles-resistant *Candida parapsilosis* isolates from bloodstream infections in a northern Italy hospital**
V. Lepera (Piacenza, Italy), C. Gorrini, G. Tocci, D. Caleca, P. Gigante, A. Zappavigna, I. Peroni, C. Cordini, L. La Vergata, R. Schiavo, G. Lo Cascio*

01002 **The imidazole luliconazole is active against azole-resistant *Aspergillus fumigatus***
D.T. Furnica (Essen, Germany), U. Scharmann, P.M. Rath, L. Kirchhoff*

01003 ***In vitro* activity of olorofim against *Aspergillus fumigatus* sensu lato clinical isolates: activity is retained against isolates showing resistance to azoles and/or amphotericin B**
J. Guinea (Madrid, Spain), P. Escribano, E. Reigadas, A. Gómez, P. Muñoz*

01004 **Presence of *C. parapsilosis* fluconazole-resistant endemic clonally-related genotypes causing invasive candidiasis at a hospital in Palma de Mallorca, Spain**
J. Guinea (Madrid, Spain), E. Alcoceba, P. Lara-Esbri, A. Oliver, A. Ferre-Beltrán, A. Gómez-Nuñez, P. Muñoz, P. Escribano*

OF239 **13:30 - 14:30** **Hall P**
1-Hour Mini-oral Flash Session

Hot topics in tuberculosis

Chairs *Daniela Maria Cirillo (Milan, Italy)*
Catherine Ong (Singapore, Singapore)

01005 **Improving tuberculosis case finding among household contacts of tuberculosis patients by using a community-based model in Addis Ababa, Ethiopia**
Z. Admassu (Toronto, Canada), Z.Z. Zerish*

01006 **Leucine-rich α2 glycoprotein-1 upregulation in plasma of patients with active tuberculosis**
J. Kutschenreuter (London, United Kingdom), M.C. Loader, D.E. Kirwan, R.H. Gilman, J.S. Friedland, D.L.W. Chong*

01007 **Comparator analysis of whole blood transcription in COVID-19 and tuberculosis reveals important common immunological pathways**
C. Broderick (London, United Kingdom), A. Hamady, H. Jackson, D. Habgood-Coote, S. Newton, J. Seddon, E. Whittaker, M. Levin, M. Kaforou*

01008 **A novel bacteriophage-based assay stratifies tuberculosis risk in recent household contacts of pulmonary tuberculosis: a prospective observational cohort study**
J.W. Kim (Leicester, United Kingdom), K. Bowman, J. Nazareth, J. Lee, G. Woltmann, R. Verma, B. Swift, P. Haldar*

01009 **Associations between mental illness, tuberculosis risk and migrant status in a Danish cohort**
S. Hayward (London, United Kingdom), K.L. Kristensen, A. Deal, T. Lillebaek, M. Norredam, J.S. Friedland, S. Hargreaves*

01010 **Tuberculosis during pregnancy and postpartum in Denmark; a nationwide register-based case-control study, 1990 – 2018**
A.C. Nordholm (Copenhagen, Denmark), C.H. Supplli, A. Norman, C.T. Ekstroem, P. Ertberg, A. Koch, T. Lillebaek, A. Andersen*

01011 **Novel methods for oral-based tuberculosis diagnosis in HIV-positive people in a high burden setting**
L. Rockman (Cape Town, South Africa), S. Minnies, Z. Palmer, C. Naidoo, S. Abdulgader, A. Okunola, R. Warren, B. Reeve, G. Whitman, G. Cangelosi, G. Theron*

01012 **Matching sequencing, *in vitro* and *in silico* data to characterise the mutations associated with ethionamide resistance in *M. tuberculosis* clinical isolates**
A.M. Cabibbe (Milan, Italy), P. Miotto, A. Audisio, F. Di Marco, A. Spitaleri, R. Provvedi, R. Manganelli, V. Mathys, D.M. Cirillo*

01013 **A nine-gene blood-based signature meets the World Health Organization target product profiles for diagnosis of active tuberculosis and predicting progression from latent to active disease**
S. Gupta (Palo Alto, United States), A. Rao, M. Scott, V. Crudu, T. Rodwell, D. Catanzaro, A. Catanzaro, P. Khatri*

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4. Risk factors for disease severity, unimprovement, and mortality in COVID-19 patients in Wuhan, China
5. Rapid and visual detection of 2019 novel coronavirus (SARS-CoV-2) by a reverse transcription loop-mediated isothermal amplification assay

ESCMID Guidelines and Consensus Statements

1. ESCMID COVID-19 Living guidelines: drug treatment and clinical management
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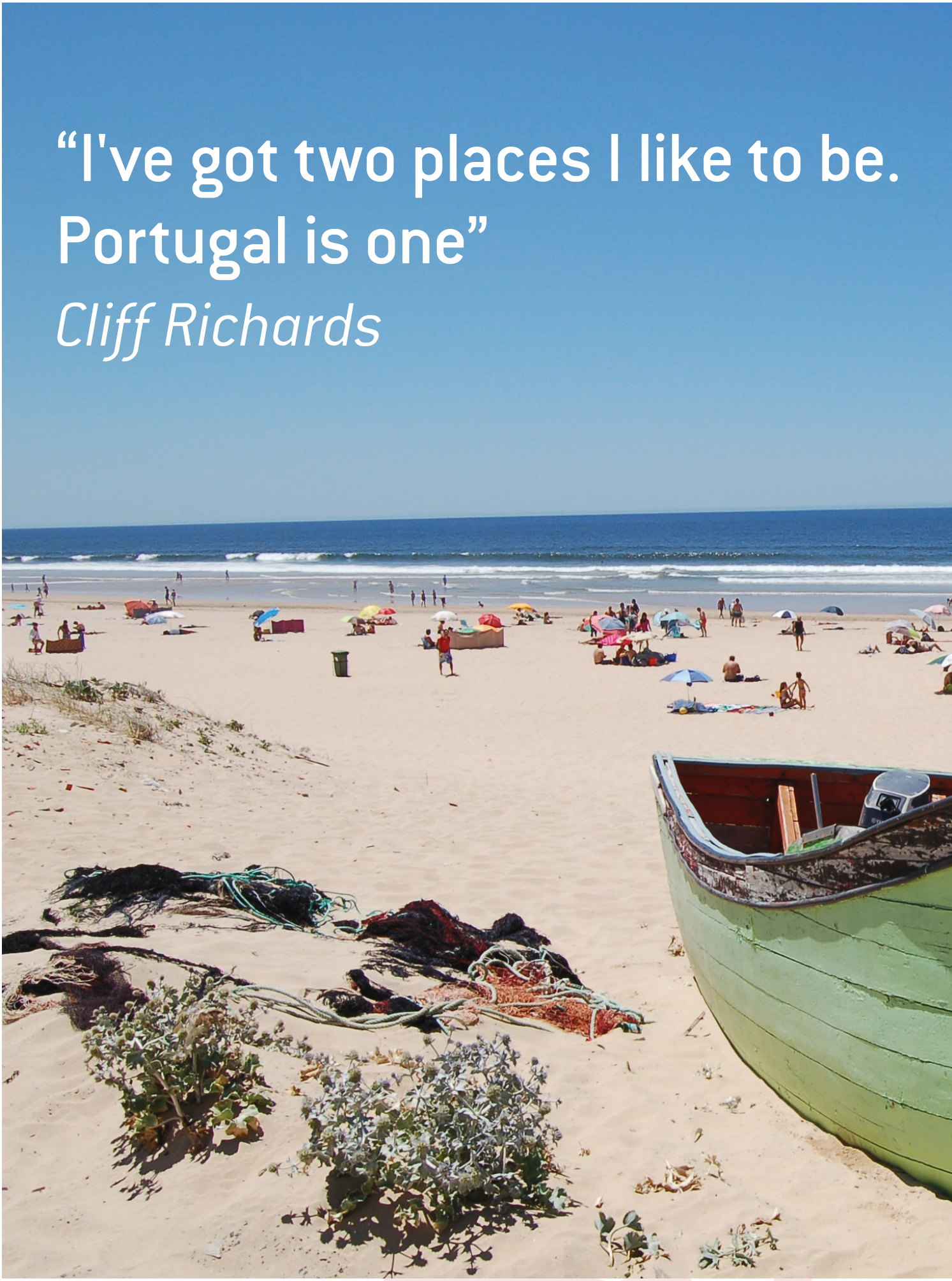
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Posters

Poster presentation time for **1. Viral infection & disease**
Monday, 25.04.2022 12:00 - 13:00

PS001

1a. HIV/AIDS (incl diagnostics & epidemiology, anti-retroviral drugs, vaccines, treatment & susceptibility/resistance)

P0001 **Causes of hospital admission among people living with HIV between 2009 and 2020**
D. Díaz De Santiago (Majadahonda, Spain), S. De La Fuente, Á. Gutierrez Rojas*

P0002 **Korea national cancer study of people with HIV or AIDS from 2002 to 2019**
Y.J. Jeong (Incheon, Korea, Republic of), Y.J. Kim, S.H. Kim, S.I. Kim*

P0003 **The impact of inflammatory bowel diseases on HIV clinical course: a retrospective study**
D. Testi (Bologna, Italy), V. Guardigni, L. Badia, B. Granozzi, S. Coladonato, E. Scaioli, A. Belluzzi, F. Rizzello, P. Gionchetti, P. Viale, L. Calza, G. Verucchi*

P0004 **Potential drug-drug interactions between antiretroviral drugs and comedications, including dietary supplements, among people with HIV**
M. Tinggaard (Hvidovre, Denmark), K.P. David, J. Gerstoft, A.E. Hansen, O. Kirk, A.M. Lebech, B.Ø. Lindhardt, M.V. Rose, L. Ryom, N. Weis, T. Benfield*

P0005 **Out-of-pocket expenses of patients diagnosed with HIV/AIDS attending a control programme in Monteria, Colombia**
J.M. Hernandez Sarmiento (Medellin, Colombia), L.M. Martinez Sanchez, L. Herrera Almanza, M. Arboleda Rojas, J.M. Gil Ramos, E.M. Doria Romero*

P0006 **Evaluation of a commercial assay whole genome HIV-1 using next-generation sequencing for the detection of HIV-1 drug resistance mutations**
S. Mohamed (Marseille, France), L. Naldi, O. Ardizzoni, J. Bernard, O. Fernando, D. Gonzalez, R. Boulme, C. Sayada*

P0007 **Weight gain after switch to dolutegravir plus lamivudine: a single-centre cohort study**
L. Mocibob (Zagreb, Croatia), Š. Zekan, D. Lukas, N. Bogdanic, J. Begovac*

P0008 **Transmitted drug resistance (TDR) surveillance in Croatia during COVID-19 pandemic**
A. Planinic (Zagreb, Croatia), J. Begovac, S. Zidovec Lepej*

P0009 **Epidemiology and transmitted HIV-1 drug resistance among treatment-naïve individuals in Israel, 2010-2018**
O. Mor (Ramat Gan, Israel), T. Wagner, N. Zuckerman, T. Halperin, D. Chemtob, I. Levy, D. Turner*

PS002

1b. Viral hepatitis (incl diagnostics & epidemiology, antiviral drugs, vaccines, treatment & susceptibility/resistance)

P0010 **The dynamic changes of HBV quasispecies diversity in infancy after immunoprophylaxis failure: a prospective cohort study**
L. Yi (Beijing, China), X Yingchun*

P0011 **Seroprevalence and genotypic profile of hepatitis B viral infection among antenatal clinic attendees in ABU teaching hospital Zaria, northwestern Nigeria**
Y. Shaibu (Zaria, Nigeria), F. Giwa, M. Abdulaziz, Z. Tanko, L. Okonkwo, A. Olayinka*

P0012 **Seroprevalence of hepatitis E virus in three haemodialysis centres in south Bulgaria**
A. Kevorkyan (Plovdiv, Bulgaria), E. Golkocheva-Markova, M. Atanasova, R. Komitova, V. Rangelova, R. Raycheva, T. Tenev, T. Kostadinova, V. Tsekov, T. Chardakova, G. Tsochev, S. Sariyan*

P0013 **Awareness of chronic hepatitis B and C among men who have sex with men (MSM): epidemiological survey and on-site screening**
M. Coessens (Sint-Niklaas, Belgium), T. Holvoet, J. Schouten, W. Verlinden*

P0014 **A multi-centre, observational study on concomitant medications and predicted drug-drug interactions with direct-acting antiviral agents in Chinese patients with hepatitis C virus genotype 1 infection**
Q. Xie (Shanghai, China), H. Zhou, X. Li, C. Lu, L. Huang, X. Chen, X. Wen, C. Zhao, Y. Zeng, H. Yu, W. Yang, Y. Zhang, Q. Wang, J. Wang*

P0015 **Donor blood screening for hepatitis C: how accurate are the current screening tests in Uganda?**
O. Lucey (Kilifi, Kenya), S. Acana, R. Muhindo, S. Uyoga, D. Kyeyune, P. Olupot Olupot, G. Cooke, K. Maitland*

P0016 **Hepatitis C treatment prescriptions in Germany during the COVID-19 pandemic, March 2020 to June 2021**
E.D. Meyer (Berlin, Germany), S. Dudareva, D. Schmidt, C. Kollan, R. Zimmermann*

P0017 **Hepatitis delta infection on Gran Canaria island (Spain): prevalence and clinical characteristics**
E. Lagarejos González (Las Palmas, Spain), A. Martín, M. Hernández, M.J. Pena*

P0018 **HDV infection in immigrants of southern Italy: epidemiological and virological characteristics**
L. Occhiello (Naples, Italy), M. Pisaturo, L. Alessio, M. Starace, A. Di Fraia, C. Monari, L. Onorato, C. Sagnelli, S. De Pascalis, L. Gualdieri, C. Minichini, G. Di Caprio, G. Scotto, M. Macera, N. Coppola*

P0019 **A model to eradicate HCV in undocumented migrants and low-income refugees in Italy**
M. Pisaturo (Naples, Italy), M. Macera, L. Alessio, S. De Pascalis, M. Stanzione, G. Stornaiuolo, V. Messina, N. Coppola*

Presentations in light grey were not registered at the time of publishing.

PS003

1c. Influenza and respiratory viruses (incl diagnostics & epidemiology, antiviral drugs, vaccines, treatment & susceptibility / resistance)

P0020 **Validation of high-volume NAxtra magnetic beads extraction for influenza A/B, RSV A/B and human metapneumovirus PCR**
A. Lind (Oslo, Norway), B. Krog, M. Fuglesang Sæther, K. Ramsøy, M. Hjørnevik, R. Rekkedal Rolfsnes, C.H. Lensjø Alvin, K.E. Engen, K. Fuglestein Bru, L.L. Andresen, M. Holberg-Petersen*

P0021 **Morbidity and mortality associated with respiratory syncytial versus influenza infection versus COVID-19 in hospitalised older adults in a Latin America country**
A. Mykietiuk (La Plata, Argentina), B. Cooke, J.P. Balbuena, A. Romandetta, M.F. Alzogaray, O. Sued, G. Chaparro, M. Obed, L. Galeano, E. Baumeister, A. Pontoriero, E. Benedetti, M. Avaro, M. Russo, M.E. Datero, B. Alcorta*

P0022 **Respiratory pathogen screening of researchers at the British antarctic survey research stations; King Edward Point and Rothera Point**
P.W. Bird (Leicester, United Kingdom), C.L. Mcmurray, M. Odedra, C.W. Holmes, J.W. Tang*

P0023 **The changing epidemiology and diagnostic workflow for the detection of respiratory pathogens in the Irish paediatric population**
C. Moore (Waterford, Ireland), L. Mccrann, E. Phelan, C. Fanning, M. Doyle, G. Chan*

P0024 **Influenza and other respiratory viruses during the SARS-CoV-2 pandemic (2019-2021)**
C. Henriques (Lisbon, Portugal), M. Soeiro, P. Conde, I. Costa, A. Melo, P. Pechirra, P. Cristovao, N. Verdasca, A.P. Rodrigues, R. Guiomar*

P0025 **In the shadows of the pandemic: influenza vaccination intention and knowledge in the time of the COVID-19 pandemic in Germany**
P. Shamsrizi (Hamburg, Germany), L. Korn, D. Heinemann, S.C. Mellinghoff, M.M. Addo, C. Betsch*

P0026 **Clinical burden of respiratory syncytial virus (RSV) and influenza in hospitalised adults: a retrospective IASIST analysis**
A. Torres (Barcelona, Spain), F. Martinón-Torres, K. Weber, A. Cáceres, C. Gutierrez*

P0027 **Atypical activity of respiratory syncytial virus in 2020/2021 season, in Portugal**
A. Melo (Lisbon, Portugal), N. Verdasca, R. Guiomar, P.L.N.F.T.D.O.I. Portuguese Laboratory Network For The Diagnosis Of Influenza*

P0028 **Detection of other coronaviruses on SARS-CoV-2 pandemic**
S. Mormeneo Bayo (Lleida, Spain), E. López González, A. Bernet Sanchez, I. Prats Sanchez, J. Aramburu Arnuelos, A. Bellés Bellés, E. Nombela Aragon, S. Puertolas Cano, C. Garcia Perez, M. Garcia Gonzalez*

P0029 **Early initiation of the respiratory syncytial season in 2021-2022, Greece**
C. Zarras (Thessaloniki, Greece), S. Pappa, K. Haidopoulou, E. Theodorakou, H. Papadimitriou, E. Iosifidis, I. Gkeka, E. Sidiropoulou, K. Stoikou, E. Vagdatli, A. Papa*

P0030 **Impact of COVID-19 pandemic on the circulation pattern of other respiratory viruses among patients with acute respiratory symptoms in the central province of Sri Lanka**
S. Arunasalam (Kandy, Sri Lanka), R. Muthugala, F. Noordeen*

P0031 **Consistency of respiratory viruses detection between nasopharyngeal swab and bronchoalveolar lavage in adults admitted for a suspected pneumonia: the importance of BAL testing**
D. Bouzid (Paris, France), Q. Le Hingrat, F. Salipante, V. Ferré, T. Chevalier, C. Choquet, Y. Yazdanpanah, J.F. Timsit, D. Descamps, N. Houhou, J.C. Lucet, B. Visseaux, P. Loubet*

P0032 **Trends in respiratory diseases in Mexico before and during the COVID-19 pandemic**
E. Garza-González (Monterrey, Mexico), A. Martínez-Meléndez, L. Kuzhuppillymyal-Prabhakarankutty, F. Cruz-López*

P0033 **Use of multiplex PCR in children with viral acute respiratory infections admitted to emergency department: before and during the COVID-19 pandemic**
P. Bernaschi (Rome, Italy), G. Mattana, S. Albitar-Nehme, V. Cento, L. Colagrossi, L. Piccioni, C. Russo, M. Raponi, U. Raucci, A.C. Vittucci, A. Reale, A. Villani, C.F. Perno*

P0034 **What happened to respiratory syncytial virus during the COVID-19 pandemic? A retrospective study in a tertiary hospital in Spain**
L. Fontán García-Rodrigo (Madrid, Spain), A. Yarci Carrión, N.D. Zurita Cruz, I. García Arata, V.B. Valdez Blanco, L. Cardeñoso Domingo*

P0035 **Machine learning identifies distinct serum lipidomic profiles in hospitalised patients with or without COVID-19**
S. Iftimie (Reus, Spain), H. Castañé, A.F. Lopez, P. Garrido, G. Baiges-Gaya, E. Rodríguez-Tomàs, A. Jiménez-Franco, J. Joven, J. Camps, A. Castro*

P0036 **The potential future on the diagnosis of SARS-CoV-2 virus: a multiplex real-time PCR detection assay for the detection of SARS-CoV-2 and flu viruses**
M.P. Peris (Zaragoza, Spain), A. Milagro, B. Dehesa-García, Y. Gracia, N.F. Martínez, L. Clusa, M. Latorre, A. Rezusta*

P0037 **Comparison of different nucleic acid silica column-based extraction kits for the molecular diagnosis of respiratory infections**
H. Alonso (Zaragoza, Spain), E. Lucia-Lobera, L. Llobet, C. Giménez-Rota*

P0038 **The most desirable scenario: rapid typing of clinical isolates for the epidemiological control of influenza A virus through a single step real-time PCR**
C. Escolar (Zaragoza, Spain), E. Teresa, V. Pérez*

P0039 **Respiratory viruses circulation during the SARS-CoV-2 pandemic period**
A. Calderaro (Parma, Italy), S. Montecchini, M. Buttrini, C. Maccari, M.C. Arcangeletti, B. Farina, C. Chezzi, F. De Conto*

P0040 **Assessment of enterovirus D68 outbreak dynamics by quantitative detection in wastewater**
M. Weil (Ramat Gan, Israel), O. Erster, I. Bar-Or, R. Shatzman-Steuerman, D. Sofer, E. Mendelson, M. Mandelboim*

P0041 **Intra-season waning of immunity following the seasonal influenza vaccine: when is the optimal time for vaccination?**
J. Nazareth (Leicester, United Kingdom), A. Sahota, I. Stephenson, I. Barr, S. Sullivan, J. Tang, M. Pareek*

P0042 **What happens with RSV?**
S. Mormeneo Bayo (Lleida, Spain), A. Bernet Sanchez, E. Lopez Gonzalez, I. Prats, A. Bellés Bellés, J. Aramburu Arnuelos, S. Puertolas Cano, E. Nombela Aragon, C. Garcia Perez, M. Garcia Gonzalez*

P0043 **Respiratory viruses circulation among symptomatic children during the ongoing COVID-19 pandemic in northeast of Italy**
C. Cason (Trieste, Italy), G. Campisciano, N. Zanotta, D. Favretto, E. Akhavan Niaki, F.M. Uliana, P. Carli, V. Petix, M. Comar*

P0044 **Comparison of the two real-time PCR assays for the detection of winter respiratory viruses**
P.W. Bird (Leicester, United Kingdom), C.W. Holmes, C.L. Mcmurray*

P0045 **Phylogenetic analysis of human parainfluenza type 3 virus outbreak strains in Seoul, South Korea, 2021**
H.N. Kim (Seoul, Korea, Republic of), J. Yoon*

P0046 **Prevalence of influenza-like illness (ILI) in twin cities Islamabad and Rawalpindi, September 2017 to February 2018 at National Influenza Central Laboratory Pakistan (NICLP)**
N. Noreen (Islamabad, Pakistan), F. Bashir*

P0047 **Predictors of hospitalisation and superinfection in viral respiratory tract infections between influenza and paramyxoviruses: the SUPERFLUOUS study**
B. Davido (Garches, France), B. Lemarie, G. Boussaid, E. Gault, H. Prigent, S. Beaune, F. Moreau, J. Dumoulin, M. Pepin, S. Greffe, P. De Truchis*

PS004

1d. Herpesviruses (incl diagnostics & epidemiology, antiviral drugs, treatment & susceptibility/resistance, excl clinical studies in immunocompromised hosts)

P0048 **Varicella-zoster virus infection in central nervous system (CNS) and coexistence of local manifestations: temporal-correlation and risk factors**
D. Fernández Vecilla (Bilbao, Spain), A. González Sarria, E. Ugalde Zarraga, J.L. Díaz De Tuesta Del Arco*

P0049 **CMV resistance to antivirals is still an unmet need: results from the French national surveillance 2006-2020**
S. Alain (Limoges, France), M. Gomez-Mayeras, D. Boutolleau, S. Burrel, J. Le Goff, C. Bressolette, M. Lafarge, F. Garnier-Geoffroy, S. Hantz*

P0050 **A review of clinical trial data on the recombinant zoster vaccine**
N. Lecrenier (Wavre, Belgium), I. Posiuniene, D. Curran*

P0051 **Impact of human cytomegalovirus glycoprotein B and H genotypes on antiviral resistance mutations in refractory transplant recipients**
M. Santos-Bravo (Barcelona, Spain), A. Peiró-Mestres, A. Moreno, M. Bodro, F. Cofán, S. Sánchez-Palomino, M.Á. Marcos*

P0052 **First description of letermovir resistance mutation in UL51 gene from a HSCT-patient and study of its impact on the terminase complex structure**
C. Muller (Limoges, France), V. Tilloy, E. Sidorov, L. Feghoul, E. Frobert, I. Garrigue, Q. Lepiller, A. Mirand, S. Feuillet-Soummer, M. Dekeyser, S. Hantz, S. Alain*

P0053 **Need for serial EBV DNAemia monitoring in solid organ transplant recipients in countries with high EBV seropositivity**
R. Garg (New Delhi, India), A. Choudhary, R.P. Mathur, S. Alam, V. Pamecha, E. Gupta*

P0054 **The impact of the COVID-19 pandemic on the incidence of herpes zoster**
R. Parikh (Wavre, Belgium), C. Wang, D. Curran, R. Widenmaier*

P0055 **Age at primary infection with Epstein-Barr virus in an area of the north region of Portugal, 2014-2020**
S. Moura (Porto, Portugal), C. Rio, L. Almeida, M.G. Figueiredo, L. Cavaleiro, A. Santos Silva*

PS005

1e. Emerging/re-emerging, vector-borne and zoonotic viral diseases (all aspects)

P0056 **Yellow fever clinical outcomes: a risk factors for death analysis during 2017-2018 outbreaks in Brazil**
C. Rodrigues (Belo Horizonte, Brazil), W. Clemente, P. Mourão, A.P. Lacerda, C. Bonis, L. Pires, L. Bandeira, T. Aguiar, A. Doffemond*

P0057 **First serological evidence of Usutu virus infection in cats: possible role as sentinels for flavivirus infections**
L. Barbic (Zagreb, Croatia), V. Vuger, V. Stevanovic, I. Benvin, S. Kovac, V. Savic, T. Vilibic-Cavlek, I. Tabain, M. Bogdanic, J. Madic*

P0058 **Pregnant women cohort to assess the risks of adverse pregnancy events after Zika virus infection**
S. Serrano (Havana, Cuba), P.A. Martinez, M. Alvarez, D. Medero, Y. Grant, E. Santana, D. Ruiz, D. Ferriol, M.G. Guzman*

P0059 **Outpatient management of suspected dengue in returned travellers**
E. Martyn (London, United Kingdom), H. Chowdhury, A. Sen, E. King, V. Johnston, T. Rampling*

P0060 **Single-point mutation in envelop protien of chikungunya virus Pakistani isolate increases its replicative fitness in cell lines**
B.A. Khan (Karachi, Pakistan), S. Ullah*

P0061 **Molecular diagnosis of neglected zoonotic pathogens on paraffin-embedded biopsies of *Leishmania*-like skin lesions**
A.M. De Pascali (Bologna, Italy), C. Cacciotta, V. Gaspari, S. Varani, A. Scagliarini*

P0062 **Molecular characterisation of imported and autochthonous dengue cases in northeast Spain between 2019-2020**
J. Navero Castillejos (Barcelona, Spain), A. Sánchez-Montalvá, D. Camprubí-Ferrer, M. Valdivia, L. Balerdi, A.I. Martínez, A. Peiró-Mestres, E. Sulleiro, A. Silgado, R. Albarracín, A. Navarro, M. Navarro, J. Barrachina, M. Jané, M.J. Martínez*

P0063 **The presence of anti-hantavirus IgG antibodies among the acute interstitial nephritis without any known causes (AINu) patients living in the chronic kidney disease with unknown aetiology (CKDu) endemic regions of Sri Lanka**
P. Senarathne (Peradeniya, Sri Lanka), S. Premarathne, P. Hewavitharana, N. Nanayakkara, C. Gamage, N. Rathnayake, R. Vijeyakumaran, K. Yoshimatsu, D. Muthusinghe*

P0064 **Diminished extracellular levels of perforin and granzymes A and B in patients with severe fever with thrombocytopenia syndrome**
M.T. Rahman (Jeonju, Korea, Republic of), C.S. Lee, J.H. Lee*

P0065 **Knowledge, attitude, and practices related to dog bite and rabies in a semi-urban community, northwestern Nigeria**
A.A. Abubakar (Zaria, Nigeria), Y.A. Jabdo, A.A. Umar*

P0066 **Autoimmune encephalitis antibody detection in patients with persistent or progressing sequelae after tick-borne encephalitis**
V. Griska (Kaunas, Lithuania), M. Veje, J. Pakalniene, M. Studahl, A. Mickiene*

P0067 **In search for tick-borne encephalitis virus in Belgian ticks**
A. Stoefs (Antwerp, Belgium), J. Baeyens, J. Verschueren, L. Heyndrickx, I. Micalessi, K.K. Ariën, D. Van Den Bossche, M. Van Esbroeck*

P0068 **One Health: assessment of Crimean-Congo haemorrhagic fever surveillance and response system in Quetta, Balochistan**
A. Jabeen (Islamabad, Pakistan), A. Ikram, J. Ansari, M. Khan, M. Tahir*

P0069 **The detection of viral RNA in blood and cerebrospinal fluid of patients with tick-borne encephalitis**
S. Grygorczuk (Bialystok, Poland), J. Dunaj, A. Moniuszko-Malinowska, P. Czupryna, M. Kondrusik, S. Pancewicz*

P0070 **The clinical and laboratory factors associated with the poor outcome of tick-borne encephalitis**
S. Grygorczuk (Bialystok, Poland), S. Magdalena, P. Czupryna, A. Moniuszko-Malinowska*

P0071 **Larvicidal activity of *Carica papaya* leaf extract against *Ae. aegypti* and *Ae. albopictus* larvae and cytotoxic effects of *Carica papaya* leaf extract against *Aedes albopictus* cells (C6/36)**
M.O. Galappaththi (Peradeniya, Sri Lanka), R.T.P.G.R. Karunarathne, A.M.S.B. Abeykoon, F. Noordeen*

P0072 **Seroprevalence of prevalent phleboviruses and Crimean-Congo haemorrhagic fever virus among blood donors in central Tunisia**
R. Ayari (Sousse, Tunisia), H. Chaouch, S. Findlay-Wilson, W. Hachfi, N. Ben Lasfar, F. Bellazreg, S. Dowall, N. Hannachi, A. Letaief*

P0073 **Comparison of laboratory and immune characteristics of tick-borne encephalitis**
P. Bogovic (Ljubljana, Slovenia), A. Kastrin, S. Lotric-Furlan, K. Ogrinc, T. Avšic Županc, M. Korva, K. Resman Rus, M. Marušic, K. Strle, F. Strle*

P0074 **Re-emerging chikungunya virus as aetiological agent of acute febrile illness in the high jungle of northern Peru**
S. Levy-Blitchtein (Lima, Peru), Y. Tarazona-Castro, L. Troyes, J. Martins-Luna, F. Cabellos-Altamirano, M.A. Aguilar-Luis, H. Carrillo-Ng, L.J. Del Valle, S. Kim, S. Miranda-Maravi, W. Silva-Caso, J. Del Valle-Mendoza*

P0075 **Detection and molecular characterisation of West Nile virus in mosquitoes in central Macedonia, Greece, 2019-2021**
K. Tsioka (Thessaloniki, Greece), S. Gewehr, S. Kalaitzopoulou, S. Pappa, K. Stoikou, S. Mourelatos, A. Papa*

P0076 **Severe fever with thrombocytopenia syndrome seroprevalence and an epidemiological study of Korean veterinary-hospital workers**
D.M. Kim (Gwangju, Korea, Republic of), M.S. Bang, J.W. Seo, N.R. Yun, M.A. Han, J.H. Hwang, S.K. Park*

P0077 **Description of viral diversity using NGS techniques in bats captured at urban parks from a Brazilian megalopolis, 2015-2020**
R. Marcatti (São Paulo, Brazil), M. Nardi, J. Summa, V. Morais, A.R. Da Rosa, D. De Oliveira, E.T. Da Silva, A.C. Da Costa, E. Sabino*

P0078 **Molecular diagnostics of acute febrile illness in individuals from northeastern state in Brazil during Zika virus outbreak, 2016**
V.M. Morais (São Paulo, Brazil), L.S. Santana, R.M. Marcatti, R.T. Tahmasebi, J.F. Bezerra, F.E. Cruz, R.R. Raposo, R.B. Buccheri, E.C. Cerdeira Sabino, A.C. Costa*

P0079 **Extracellular histones is associated with disease severity and cardiac dysfunction in adults with dengue**
P.Y. Chia (Singapore, Singapore), A. Teo, T.W. Yeo*

P0080 **Descriptive epidemiology of dengue fever cases in Islamabad Capital Territory (ICT) Pakistan, October 2021**
N. Noreen (Islamabad, Pakistan)*

P0081 **IgM seroneutralisation for improved confirmation of Japanese encephalitis virus infection in a flavivirus endemic area**
T. Bharucha (Oxford, United Kingdom), N. Ayhan, B. Pastorino, S. Rattanavong, M. Vongsouvath, M. Mayxay, A. Changthongthip, O. Sengvilaipaseuth, O. Phonemixay, N. Zitzmann, P. Newton, X. De Lamballerie, A. Dubot-Pérès*

P0082 **Untargeted metabolomics-based response analysis of temperature and insecticide exposure in *Aedes aegypti***
P. Singh (New Delhi, India), P. Kumar, V. Kumar, V. Pande, R. Dhiman*

P0083 **Orthopoxvirus seroprevalence in cats and veterinary personnel in northeastern Italy**
D. Lapa (Rome, Italy), A. Beltrame, A. Arzese, F. Carletti, A. Di Caro, G. Ippolito, M.R. Capobianchi, C. Castilletti*

PS006

1f. Diagnostic virology (other than respiratory viruses, herpesviruses, hepatitis & HIV)

P0084 **SARS-CoV-2 infection in vaccinated HCWs: clinical, immunogenicity and clearance**
M.V. Mauro (Cosenza, Italy), R. Tenuta, F. Greco*

P0085 **Dengue virus diagnosis by high sensitivity portable differential impedance sensing electronic platform**
P. Piedimonte (Milan, Italy), L. Sola, M. Cretich, A. Gori, M. Chiari, G. Ferrari, M. Sampietro*

P0086 **Performance characteristics of a fully automated, random-access qPCR assay for monitoring BKV DNA in plasma and urine specimens**
I. Shah (Germantown, United States), N. Browne-Marke, S. Holt, C. Pultrone, D. Rigamonti, A. Di Cosimo, M. Gilardi, G. Wall*

P0087 **Performance characteristics of an automated, fully random-access human adenovirus (HAdV) qPCR assay for monitoring HAdV DNA in plasma specimens**
I. Shah (Germantown, United States), N. Browne-Marke, S. Holt, C. Pultrone, D. Rigamonti, A. Di Cosimo, R. Abis, G. Wall*

P0088 **Performance of a new high-risk HPV genotyping assay which combines isothermal amplification and real-time fluorescent detection on cervical swabs and FFPE tissues**
A. Loonen (Eindhoven, Netherlands), R. Dirkx, I. De Vrije, M. Lentjes-Beer, C. Huijsmans, A. Van Den Brule*

P0089 **A non-alcohol medium for rapid and traditional nucleic acids extraction for detection of HPV in vaginal self-collected samples**
I. Sechi (Sassari, Italy), A. Del Rio, N. Muresu, A. Dettori, M. Usai, A. Cossu, C. Cocuzza, M. Martinelli, M.R. Muroni, A. Piana*

PS007

1g. Viral epidemiology – general, prevalence studies, molecular and genomic epidemiology (other than respiratory viruses, herpesviruses, hepatitis & HIV)

P0093 **Serological and genetic characterisation of hepatitis E genotypes circulating in Portugal, January 2009 - November 2021**
R. De Sousa (Lisbon, Portugal), G. De Muylder, C. Roque, C. Manita, S. João, S. Sofia, R. Matos, M. Oleastro*

P0091 **Evaluation of JCPyV viruria and viremia, serostatus and microRNA expression as biomarkers to manage multiple sclerosis patients under different disease-modifying therapies**
C. Prezioso (Rome, Italy), M. Ciotti, G. Brazzini, S. Passerini, A. Grimaldi, D. Landi, C. Gabri Nicoletti, M.A. Zingaropoli, M. Iannetta, M. Altieri, A. Conte, D. Limongi, G.A. Marfia, M.R. Ciardi, C.M. Mastroianni, A.T. Palamara, U. Moens, V. Pietropaolo*

P0092 **Herpes zoster burden of disease: an analysis of the placebo group data from three randomised phase III studies**
N. Lecrenier (Wavre, Belgium), D. Curran, S. Matthews, C. Boutry, A.L. Cunningham, K.E. Schmader*

P0093 **Low prevalence of human papillomavirus-associated anal squamous intraepithelial lesions in HIV-positive men who have sex with men after efficient combination antiretroviral therapy**
A. Matteelli (Brescia, Italy), M. Properzi, V. Marchese, R. Gerami, A. Grossi, M. Gulletta, F. Castelli*

P0094 **Utility of the interferon-gamma enzyme-linked immunosorbent spot assay to predict the risk of infection in kidney transplant recipients**
J. Bruminhent (Bangkok, Thailand), W. Namsiripongpan, S. Kantachuvesiri*

P0095 **Confirmed and suspected viral meningoencephalitis at the referral centre, D. Cotugno hospital in Naples, Italy, 2017-2021: aetiologies and outcomes**
R. Pisapia (Naples, Italy), C. Tiberio, M. Grimaldi, M. Nerilli, C. Rescigno*

P0096 **Case review of human papillomavirus 16 African lineage in Tenerife**
J. Alcoba Flórez (Santa Cruz De Tenerife, Spain), D. García-Martínez De Artola*

P0097 **Identification of immunity gaps for measles using Belgian serial serology data**
J. Schenk (Hasselt, Belgium), S. Abrams, N. Hens*

P0098 **Changes in the frecuency of viral enteropathogens in childhood in a Spanish health area**
R. Carranza (Albacete, Spain), O. Esparcia, P. Martin-Bazarra, P. Robles, C. Sainz De Baranda*

P0099 **Rotavirus diversity over the 2002-2020 period: genotype variation pre- and post-vaccine (Rotarix ®) introduction in Sicily, Italy**
S. De Grazia (Palermo, Italy), F. Bonura, L. Mangiaracina, C. Filizzolo, C. Bonura, V. Martella, M. Ciarlet, G. Giammanco*

P0100 **Integrating dengue rapid diagnostic tests into public health epidemiological surveillance, to determine disease transmission dynamics**
A.K. Sy (Muntinlupa City, Philippines), J. Biggs, M.A. Quinones, M.A.J. Reyes, A. Tandoc, J.C. Hafalla, M. Hibberd*

P0101 **Aetiology of acute viral meningoencephalitis in Valladolid, Spain, 1993-2021**
T. Nebreda Mayoral (Valladolid, Spain), J. Gutierrez Ballesteros, A.M. Martínez García, B. González Fernández, E. Cantón Benito, L. Tejedor Cantero, V. Cerpa Almenara, S. Rojo Rello, A. Orduña Domingo*

P0102 **Trends of enterovirus and parechovirus infections**
S. Mohan (Secaucus, United States), H. Kapoor, A. Salm, C. Bi*

P0103 **Foodborne tick-borne encephalitis in Europe (1980-2021): a systematic review and meta-analysis**
M. Elbaz (Tel Aviv, Israel), Y. Paran*

P0104 **Determination of HPV-18 lineages and sub-lineages in Iranian population**
A. Ramezani (Tehran, Iran, Islamic Republic of), M. Sadat Larijani, A.A. Velayati, R. Soleimani, M.D. Omrani, M. Banifazl, A. Bavand, A.H. Nejadeh, V. Ezzatizadeh, M. Jamshidi, N.S. Mousavinikoo*

P0105 **Prevalence, genotype distribution and associated risk factors of oropharyngeal human papilloma virus (HPV) infection after transplantation (DZIF-Transplant Cohort)**
T. Ganzenmueller (Tübingen, Germany), A. Klostermann, A. Iftner, K. Kegreiss, D. Pohle, T. Iftner*

P0106 **Co-infection by DNA viruses in post-renal transplant patients**
S. Sahani (Hradec Kralove, Czech Republic), M. Fajfr*

P0107 **Molecular detection of human enteric viruses circulating in New Aquitaine, France, 2018-2021**
D. Robert (Le Haillan, France), S. Zaffreya*

PS008

1h. Antiviral drugs, treatment, susceptibility/resistance (other than respiratory viruses, herpesviruses, hepatitis & HIV)

P0108 **Outcome of progressive multifocal leukoencephalopathy treated by immune checkpoint blockers, a retrospective multi-centre study**
G. Martin-Blondel (Toulouse, France), X. Boumaza, D. Roos-Weil, B. Bonneau, C. Pinnetti, S. Rauer, L. Nitsch, P. Delobel, E. Treiner, A. Del Bello, J. Gasnault, I. Jelcic, W. Sühs, B. Grimbacher, Y. Göreci, C. Warnke, D. Clifford, O. Grauer, S. Gnanapavan, R. Wicklein, T. Perpoint, M. Beudel, M. Wijburg, N. Lambert, X. Engalenc, C. Kupper, A. Aouba, V. Manda, X. Brousse, M. Decours, H. Mrabet, F. Gourdon, P. Duffau, M. Le Marechal, R. Bernard-Valnet, A. Harel, B. Wyplosz, J. Rakotoarison, Y. Leveneur, L. De Menibus, N. Grassl, F. Lifermann, F. Cohen-Aubart, D. Ney, Y. Schejter, J. Berger, J.C. Ouallet, A. Sommet, I. Cortese*

Poster presentation time for **2. Bacterial infection & disease**
Sunday, 24.04.2022 12:00 - 13:00

PS009

2a. Tuberculosis and other mycobacterial infections (incl antimycobacterial drugs, treatment & susceptibility/resistance, diagnostics & epidemiology)

P0109 **A small conserved synthetic heat shock protein epitope generated opsonic monoclonal antibodies against mycobacteria**
N. Rikhi (Gaithersburg, United States), C.J. Sei, K. Muema, R.F. Schuman, A. Assiaw-Dufu, G.W. Fischer*

P0110 **A novel monoclonal antibody raised against a cell wall component of Gram-positive bacteria is broadly reactive across mycobacteria, staphylococci and bacilli**
C.J. Sei (Gaithersburg, United States), N. Rikhi, K. Muema, R.F. Schuman, A. Assiaw-Dufu, G.W. Fischer*

P0111 **Surveillance of *Mycobacterium leprae* in Madagascar**
D. Randriarimanana (Antananarivo, Madagascar), M. Andrianarison, T. Rasamoelina, F.A. Rakotomalala, C. Avanzi, R. Andriamira, B. Cauchoix, L.S. Ramarozatovo, J.L. Berland, F. Rapelanoro Rabenja*

P0112 **What can we expect from a specific commercial test in the diagnosis of active tuberculosis?**
S. Pérez-Recio (Barcelona, Spain), M.D. Grijota-Camino, Y. Hernandez-Hermida, M. Casellas López, J. Dorca Sargatal, N. Sabé Fernández, F. Alcaide, M. Santin*

P0113 **Service evaluation of non-tuberculous mycobacterial pulmonary disease in a large UK teaching hospital**
J. Carter (Leeds, United Kingdom), B. Hawramy, H. Mcgann, F. Mcgill*

P0114 **Non-tuberculosis pulmonary disease: retrospective observational study in Kharkiv, Ukraine**
O. Konstantynovska (Kharkiv, Ukraine), I. Kontsevaya*

P0115 **The sequence of activation and infection determines outcomes of macrophage infections with *Mycobacterium tuberculosis***
E. Sarti (Zurich, Switzerland), R. Wolfensberger, P. Sander, R. Speck, S. Bredl, J. Nemeth*

P0116 **The microevolutionary trajectory by endemic multidrug-resistant *Mycobacterium tuberculosis* strains in Portugal towards increased drug resistance levels and its clinical significance**
P. Gomes (Lisbon, Portugal), F. Maltez, L. Brum, D. Machado, J. Phelan, I. Couto, S. Campino, T. Clark, M. Viveiros, P. Paixão, J. Perdigão, I. Portugal*

P0117 **Genotypic and phenotypic analyses for antimicrobial resistance of *Mycobacterium abscessus subsp. abscessus* isolates**
Z. Awad (Paris, France), K. La, B. Heid, V. Ok, A. Bridier-Nahmias, F. Mougari, E. Cambau*

P0118 **Update of a commercial kit for detection of *Mycobacterium tuberculosis* complex and a novel reagent for liquefaction and inactivation of native sputum**
M. Eckart (Nehren, Germany), M. Raabe, A. Merz, V. Allerheiligen*

P0119 **Interplay between macrophage heterogeneity and *Mycobacterium tuberculosis* complex phylogenetic lineages during *in vitro* infection**
R. Sorrentino (Milan, Italy), M. Chiacchiaretta, F. Cugnata, A. Aiello, A. Navarra, V. Vanini, D.M. Cirillo, D. Goletti, P. Miotto*

P0120 **Isolation of a smooth tubercle bacillus provides genomic insights into the ancestor of the *Mycobacterium tuberculosis* complex**
A. Ghodousi (Milan, Italy), B. Yenew, G. Diriba, E. Tesfaye, A.M. Cabibbe, M. Amare, S. Moga, M. Marceau, X. Didelot, P. Supply, A. Kebede, G. Tolera, M. Getahun, Z. Mehammed, D.M. Cirillo*

P0121 **Consequences of the COVID-19 pandemic on microbiological diagnosis of mycobacterial infections in a low-incidence area of tuberculosis**
M.C. Moretó-Castellsagué (Barcelona, Spain), F. Alcaide*

P0122 **New tuberculosis vaccines in India: evaluating the potential health impacts of adolescent/adult vaccination with M72/AS01$_E$-like and BCG-revaccination-like vaccines**
R. Clark (London, United Kingdom), C. Mukandavire, C. Weerasuriya, M. Quaife, A. Iskauskas, R. Bakker, D. Scarponi, R. Harris, N. Menzies, R. White*

P0123 **Predicting rifampicin resistance in *Mycobacterium tuberculosis* by machine learning, incorporating protein structural, chemical, evolutionary and genetic features**
C. Lynch (Oxford, United Kingdom), D. Adlard, P. Fowler*

P0124 **Tuberculosis among patients with systemic lupus erythematosus (SLE) in Indonesia: a cohort study**
R. Van Crevel (Nijmegen, Netherlands), L. Hamijoyo, E. Sahiratmadja, N. Ghassani, G. Darmawan, E. Susandi, P. Hill, B. Alisjahbana*

P0125 **Screening and preventive treatment for latent tuberculosis infection among people living with HIV in low incidence settings: a systematic review and meta-analysis**
R. Van Crevel (Nijmegen, Netherlands), D. Van Geuns, G. De Vries, F. Wit*

P0126 **WGS of *Mycobacterium intracellulare* subsp. *chimaera* isolates from pulmonary infection shows very closely relation in the core-genome**
M. Rubio (Barcelona, Spain), M.J. Fernandez, G. Tudó, M. Garrigo, J. González-Martín*

P0127 **Immune activation drives fibrotic responses following *Mycobacterium tuberculosis* infection**
D. Chong (London, United Kingdom), S. Ratnakumar, J. Kutschenreuter, J. Porter, J. Friedland*

P0128 **Social determinants of tuberculosis; a nationwide case-control study, Denmark, 1990 - 2018**
A.C. Nordholm (Copenhagen, Denmark), A.B. Andersen, C. Wejse, A. Norman, C.T. Ekstroem, P.H. Andersen, A. Koch, T. Lillebaek*

P0129 **Macrolide susceptibility of *Mycobacterium fortuitum* group**
C. Riazzo (Córdoba, Spain), P. Ruíz, L. Martínez-Martínez, M. Causse-Del Río*

P0130 **Cyktokine and chemokine levels in pulmonary and extrapulmonary tuberculosis**
A.A. Østergaard (Odense, Denmark), A.C.A. Nielsen, K. Assing, I.S. Johansen*

P0131 **BashTheBug: a crowd of volunteers reproducibly and accurately measure the minimum inhibitory concentrations of 13 antitubercular drugs from photographs of 96-well broth microdilution plates**
P. Fowler (Oxford, United Kingdom), C. Wright, H. Spiers, T. Zhu, E. Baeten, S. Hoosdally, A. Roohi, S. Kouchaki, T. Walker, T. Peto, G. Miller, C. Lintott, D. Clifton, D. Crook, S. Walker*

P0132 **Antibiotic resistance mechanisms in *Mycobacterium avium***
J. Schildkraut (Nijmegen, Netherlands), J. Coolen, L. Pennings, J. Van Ingen*

P0133 **Risk of progression from latent to active tuberculosis among children in Greenland**
A. Koch (Copenhagen, Denmark), N. Brokhattingen, M. Andersson, B. Søborg*

P0134 **A new method for differentiation between members of the *Mycobacterium kansasii* complex**
Z. Bakula (Warsaw, Poland), K. Rastawicka, T. Jagielski*

P0135 **The sulfoxide metabolite of ethionamide has antibacterial activity against *Mycobacterium tuberculosis* and is boosted by clinical candidate BVL-GSK098**
M. Pieren (Basel, Switzerland), Z. Edoo, A. Dreneau, T. Maitre, N. Véziris, O. Defert, G.E. Dale, S. Lociuro, M. Gitzinger, N. Willand, A. Baulard*

P0136 **Isolation of non-tuberculous mycobacteria in Seville, Spain**
V. Gonzalez-Galan (Seville, Spain), H. Porteros, M.J. Torres, J.F. Medina, R. Luque, M.D. Falcon, M.E. Quintana*

P0137 **Molecular epidemiological characteristics of *Mycobacterium abscessus* in non-cystic fibrosis untreated patients in Japan and Taiwan**
M. Yoshida (Tokyo, Japan), J.Y. Chien, K. Morimoto, T. Kinjo, A. Aono, Y. Murase, K. Fujiwara, Y. Morishige, H. Nagano, R. Jou, N. Hasegawa, M. Ato, Y. Hoshino, P.R. Hsueh, S. Mitarai*

P0138 **Non-tuberculous mycobacterial infection is not a driver of pulmonary microbiota in cystic fibrosis**
H. Pailhoriès (Brest, France), L. Velo-Suarez, J. Alcoforado-Diniz, S. Gouriou, P.R. Burgel, J.L. Herrmann, G. Héry-Arnaud*

P0139 **Syndemicity of chronic hepatitis C and tuberculosis: a systematic review and meta-analysis**
M. Beliz Meier (Heidelberg, Germany), I.D. Olaru, S.G. Schumacher, N. Prodanovic, P.J. Kitchen, F. Mirzayev, C.M. Denkinger*

P0140 **Prevalence and predictors of diabetes mellitus among adult tuberculosis patients in northern Nigeria**
Z. Mohammed (Abuja, Nigeria), C. Anyaike, A.A. Dalhatu, A.A. Olasinde*

P0141 **Whole genome sequence based molecular epidemiology of reemerging bovine and captive wild-animal tuberculosis in Israel**
S. Blum (Bet Dagan, Israel), Y. Losev, G. Valency, H. Kaidar-Shwartz, Z. Dveyrin, E. Rorman, Z. Baider, O. Krifucks, M. Bellaiche*

P0142 **Fully automated qualitative assay for rapid detection of *Mycobacterium tuberculosis* in respiratory and non-respiratory samples in a low-prevalence country**
R. Campo-Ramos (Oviedo, Spain), S. Palacios-Penedo, B. Rioseras-De-Bustos, R. López-Martínez, J.J. Palacios-Gutiérrez*

P0143 **Particularities of urogenital tuberculosis in southern Tunisia**
M. Ben Jemaa (Sfax, Tunisia), F. Hammami, M. Koubaa, K. Rekik, F. Smaoui, I. Bougharriou, C. Marrakchi*

P0144 **Susceptibility profile for mycobacteria in a private hospital from 2012 to 2020**
A. Doi (São Paulo, Brazil), P. Koga, M. Maluf, E. Yamamoto, M. Martino, R. Miraglia*

P0145 ***In vitro* activity of repurposed nitroxoline against clinically isolated mycobacteria including multidrug-resistant *Mycobacterium tuberculosis***
A.M. Hoffmann (Cologne, Germany), M. Wolke, G. Plum, J. Rybniker, F. Fuchs*

P0146 **Comparative genomics of *Mycobacterium abscessus subsp. abscessus* in respiratory and extra-respiratory infections**
Z. Awad (Paris, France), K. La, B. Heid, F. Mougari, V. Ok, A. Bridier-Nahmias, E. Cambau*

P0147 **Probing the drivers of phenotypic diversification in the tubercular pathogen using state-of-the-art single-cell technologies**
L. Pokorny (Paris, France), G. Manina*

P0148 **Minocycline boosts the activity of recommended treatment regimens for *Mycobacterium avium* complex pulmonary disease in a dynamic hollow-fibre system**
J. Raaijmakers (Nijmegen, Netherlands), M. Ruth, E. Van Den Hombergh, R. Aarnoutse, E. Svensson, H. Wertheim, W. Hoefsloot, J. Van Ingen*

P0149 ***Mycobacterium abscessus* Eis2 (MAB_4532c) is an Amikacin resistance determinant *in vivo***
P. Sander (Zurich, Switzerland), N.I. Lorè, D. Schäfle, F. Saliu, M. Rossi, B. Schulthess, D.M. Cirillo*

P0150 **Status of tuberculosis (TB) epidemic in Nepal**
P. Shrestha (Kathmandu, Nepal)*

P0151 **Distribution and susceptibility profile of *Mycobacterium tuberculosis* during a decade in Castellon province, Spain**
R. Soria Martín (Castelló de la Plana, Spain), M. Belda Álvarez, A. Blasco Molla, N. Lozano Rodríguez, L. Solaz Escrig, M.E. Rodríguez Pineda, P. Ortí Juan, R. Moreno Muñoz*

P0152 **Muscular tuberculosis: analysis of 16 cases**
T. Ben Jemaa (Sfax, Tunisia), M. Maazoun, I. Boughariou, F. Gassara, H. Chaabouni, K. Rekik, F. Smaoui, M. Koubaa, C. Marrakchi, H. Boussayma*

P0153 **Ocular tuberculosis: a forgotten extrapulmonary localisation**
T. Ben Jemaa (Sfax, Tunisia), F. Gassara, I. Boughariou, M. Maazoun, K. Mnif, K. Rekik, F. Smaoui, S. Gargouri, M. Koubaa*

P0154 **Genetic diversity of multidrug-resistant and drug-susceptible *Mycobacterium tuberculosis* isolates in Lithuania**
Z. Bakuła (Warsaw, Poland), P. Stakenas, D. Bakonyte, E. Vasiliauskiene, L. Vasiliauskaite, U. Mikneviciute, B. Nakceriene, E. Davidaviciene, T. Jagielski*

P0155 **The veterinary anthelmintic selamectin inhibits the mycobacterial DprE1 enzyme**
J.M. Ezquerra-Aznárez (Zaragoza, Spain), G. Degiacomi, H. Gašparovic, G. Stelitano, J.C. Sammartino, J. Korduláková, P. Governa, F. Manetti, M.R. Pasca, L.R. Chiarelli, S. Ramón-García*

P0156 **Subpopulation-based biomarkers of persistent tuberculosis, towards enhanced diagnostics**
C. Zavala-Alvarado (Paris, France), L.K. Singh, L. Pokorny, C. Chica, N. Pietrosemoli, E. Perthame, F. Doucet-Populaire, G. Manina*

P0157 **Clinical laboratory experience of novel DNA chromatography to discriminate *Mycobacterium abscessus* subspecies and macrolide susceptibility**
Y. Hoshino (Tokyo, Japan), H. Fukano, M. Yoshida, H. Oki, T. Kosako, S. Sano, M. Suzuki, Y. Kazumi, S. Miyamoto, N. Sakagami, J. Takasaki*

P0158 **Treatment outcomes of fixed dose combination and separate tablets in extrapulmonary tuberculosis**
M. Ben Jemaa (Sfax, Tunisia), F. Hammami, M. Koubaa, K. Rekik, F. Smaoui, I. Bougharriou, C. Marrakchi*

P0159 **Defining the mutant selection window of drug-resistant *Mycobacterium tuberculosis* bacteria *in vitro***
L. Sonnenkalb (Borstel, Germany), M. Merker, S. Niemann*

P0160 **Utility of urine lipoarabinomannan (LAM) in diagnosing mycobacteria infection among hospitalised HIV-infected patients**
J. Chen (Shanghai, China), L. Gu, R. Zhang, L. Liu, Y. Shen, Y. Shao, J. Wang, J. Sun, T. Qi, Z. Wang, Y. Tang, W. Song, J. Xun, H. Lu*

P0161 **Long-term mortality of non-tuberculous mycobacterial disease in people living with HIV**
J. Chen (Shanghai, China), J. Hu, L. Gu, Y. Shao, R. Zhang, T. Qi, J. Sun, Z. Wang, W. Song, Y. Tang, J. Wang, S. Xu, J. Yang, Y. Shen, L. Liu, H. Lu*

P0162 **Therapeutic use of host immune response: learnings from tuberculosis**
D. Mitra (New Delhi, India), P. Sanyal, A. Saurabh*

P0163 **Study of *in vitro* and *in vivo* activity of a novel compound against *Mycobacterium abscessus* for the treatment of cystic fibrosis infections**
L. Muñoz Muñoz (Zaragoza, Spain), G. Degiacomi, L.R. Chiarelli, G. Stelitano, D. Recchia, O. Riabova, N.I. Loré, N. Monakhova, F. Saliu, R. Marco, J.M. Ezquerra Aznárez, J.C. Sammartino, D. Cirillo, S. Ramon Garcia, E. Tortoli, V. Makarov, M.R. Pasca*

P0164 **Probability of tuberculosis in patients with small bowel ulcerations**
M.B. Basaranoglu (Istanbul, Turkey)*

P0165 ***In vivo* fluctuation assay: a new tool for evaluation of antituberculous drugs**
N. Veziris (Paris, France), L. Fournier Le Ray, A. Frenoy, F. Morel, A. Chauffour, A. Aubry*

P0166 **Decoding beta-lactam susceptibility patterns in *Mycobacterium tuberculosis* clinical strains**
F. Olivença (Lisbon, Portugal), A. Nunes, R. Macedo, D. Pires, C. Silveiro, E. Anes, J.P. Gomes, M.J. Catalão*

P0167 **Anticipating mycobacterial beta-lactam resistance: do we know the whole story?**
F. Olivença (Lisbon, Portugal), C. Ferreira, C. Silveiro, A. Nunes, J.P. Gomes, M.J. Catalão*

P0168 **A systematic review of the epidemiology, clinical characteristics, treatment and outcomes of central nervous system infections caused by *Mycobacterium kansasii***
B. Mitton (Bloemfontein, South Africa)*

P0169 **Detection of drug susceptibility patterns of *Mycobacterium abscessus* subspecies *abscessus* clinical isolates**
H. Gur (Ankara, Turkey), S.A. Ozyar, N. Inal, O.K. Koksalan, Z. Saribas*

P0170 **Prevalence of non-tuberculous mycobacteria in a tertiary hospital in Beijing, China , January 2013 to December 2018**
C. Xin-Fei (Beijing, China), H. Jing-Jing, X. Ying-Chun*

P0171 **Depletion of peptidoglycan modifications sensitises *Mycobacterium smegmatis* to β-lactam antibiotics**
C. Silveiro (Lisbon, Portugal), M. Marques, F. Olivença, M.J. Catalão*

P0172 **Discouragement in tuberculosis treatment by the same pitfalls: when are we going to change?**
L. Leal (Curitiba, Brazil), D.V. Vieira, F.H.S. De Lara, K.C.L. Pereira, F.F. Tuon, J.P. Telles*

P0173 **The genetic variations in the *pncA* gene associated with pyrazinamide resistance**
M. Dohál (Martin, Slovakia), I. Porvazník, M. Škerenová, E.M. Rasmussen, I. Solovic, J. Mokrý*

P0174 **Non-tuberculous mycobacteria: clinical and laboratory characterisation (2009 and 2019)**
M. Lopes (Coimbra, Portugal), M. Batista, T. Garcia, H. Alves, L. Boaventura, C. Pontes, F. Rodrigues*

P0175 **Increased disseminated tuberculosis in the COVID-19 era: the experience of a highly affected province in northern Italy**
A. Matteelli (Brescia, Italy), V. Marchese, L. Marchese, F. Bona, B. Formenti, G. Russo, N. Gregori, G. Gardini, G. Di Rosario, G. Maifredi, F. Castelli*

P0176 **Delamanid-bedaquiline 12-month regimen in patients with pre-XDR TB 2019-2021: preliminary results and shift to a 9-month regimen**
E. Khimova (Arkhangelsk, Russian Federation), D. Perkhin, S. Makhmaeva, O. Sveshnikova, V. Verkhovaia, A. Kulizhskaya, P. Eliseev, E. Nikishova, A. Maryandyshev, V. Privolnev*

P0177 **Non-tuberculous mycobacteria diversity in Portugal: overview from the last 8 years**
S. Carneiro (Lisbon, Portugal), A. Santos, A. Silva, J.P. Gomes, R. Macedo*

P0178 **Epidemiology of extrapulmonary tuberculosis in a low-burden setting**
M. Rolo (Madrid, Spain), B. Gonzalez-Blanco, I. Muñoz-Gallego, E. Prieto Ávalos, P. López-Roa*

P0179 **TB or not TB: differentiating infectious causes of spine involvement in tropical settings**
N. Gupta (Manipal, India), S.N. Bhat, K. Saravu*

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2b. Severe sepsis, bacteraemia & endocarditis (incl host biomarkers and outcome prediction)

P0180 **Reduction of bloodstream infection associated mortality after introduction of a sepsis project in the emergency room of a tertiary referral hospital of northern Italy**
M. Colaneri (Pavia, Italy), E. Seminari, M. Corbella, A. De Silvestri, A. Muzzi, S. Perlini, I.F. Martino, P. Cambieri, P. Marone, B. Raffaele*

P0181 **A novel patient-focused intervention increases adherence to guideline-based preventive measures in asplenic patients: results from the prospective controlled PrePPS-study**
J. Camp (Freiburg, Germany), M. Bayrhuber, N. Anka, M. Glattacker, E. Farin-Glattacker, S. Rieg*

P0182 **Leptin signaling in innate immune responses towards bloodstream infections (BSI)**
J. Fischer (Cologne, Germany), L. Andrade, R. Hanßen, P. Mayer, R. Sprute, J. Stemler, J. Vehreschild, O.A. Cornely, C. Lehmann, N. Jung, J. Rybniker, N. Robinson*

P0183 **Molecular analysis and molecular antibiogram on heart valve tissue improve diagnosis and targeted therapy of infective endocarditis: a prospective study**
A. Mularoni (Palermo, Italy), E. Graziano, F. Barbera, A.A. Medaglia, D. Di Carlo, M. Pilato, P.G. Conaldi*

P0184 ***Klebsiella pneumoniae* KPC-producing bloodstream infections: a ten years retrospective single-centre study of appropriate treatment and predictors of mortality**
I. De Benedetto (Turin, Italy), S. Mornese Pinna, N. Shbaklo, S. Scabini, A. Castiglione, F. Ranzani, R. Cavallo, F.G. De Rosa, S. Corcione*

P0185 **Septic shock diagnosed in the Emergency Room versus septic shock diagnosed inside hospital wards or intensive care units: an analysis of 1122 cases**
D. Akyol (Izmir, Turkey), M. Mert Vahabi, D. Baskol Elik, G. Sanlidag, S.C. Memetali, O.B. Kenanoglu, C. Bulut Avsar, A. Uyan Önal, O. Acet, U. Önal, D. Akdag, G. Guliyeva, M. Demir Görür, N. Yalçin, H. Sipahi, M. Tasbakan, S. Ulusoy, O. Sipahi*

P0186 **Nebulised colistin plus intravenous ciprofloxacin in ventilator-associated pneumonia caused by carbapenem-resistant *Klebsiella pneumoniae*: a potential-combination-therapy**
M.J. Hasan (Dhaka, Bangladesh), S. Mahmud Redwanul Huq, A.M. Anam, R. Rabbani*

P0187 **Reduced 30-day mortality risk of carbapenem-resistant Gram-negative bloodstream infections treated with targeted combination therapy including fosfomycin**
L. Diella (Bari, Italy), D.F. Bavaro, A. Belati, S. Cotugno, L. Frallonardo, M. Camporeale, G. Patti, V. Totaro, C. Pellegrino, G. Brindicci, N. De Gennaro, F. Di Gennaro, A. Saracino*

P0188 **Changing epidemiology of bloodstream infection in patients with solid tumours**
C. Lopera-Marmol (Barcelona, Spain), P. Monzó-Gallo, M. Chumbita, F. Andrade-Meira, N. García-Pouton, I. Grafia, F. Aiello, A. Soriano-Viladomiu, C. Garcia-Vidal, P. Puerta-Alcalde*

P0189 **Prognosis and determinants of mortality of infective endocarditis in liver cirrhosis: a multi-centre case-control study**
M. Chauveau (Nantes, France), C. Deschanvres, R. Lecomte, N. Issa, F. Camou, D. Boutoille*

P0190 **Impact of a multidimensional bundles intervention on management and 30-day mortality of Gram-negative bloodstream infections: a pre-post quasi-experimental study**
D.F. Bavaro (Bari, Italy), L. Diella, A. Belati, D. Fiordelisi, R. Papagni, G. Guido, E. De Vita, R. Novara, F. Signorile, G. Brindicci, N. De Gennaro, F. Di Gennaro, A. Saracino*

P0191 **Glucocorticoids are associated with a markedly increased risk of a fatal outcome in patients with *Staphylococcus aureus* bacteraemia: a nationwide study**
L. Thorlacius-Ussing (Copenhagen, Denmark), H. Sandholt, A. Rhod Larsen, A. Petersen, T. Benfield*

P0192 **A population-representative study based on review of patient charts shows obtained valid estimates of sepsis incidence and mortality in Sweden**
L. Mellhammar (Lund, Sweden), E. Wollter, A. Knutsson, C. Norlander, C.J. Olséen, P.O. Wiking, N. Rose, D. Schwarzkopf, K. Reinhart, A. Linder*

P0193 **The utility of a prediction tool for out ruling infective endocarditis in patients with *Staphylococcus aureus* bacteraemia**
A. Mc Greal-Bellone (Dublin, Ireland), T.K. Teoh, S. O' Regan, A. Heeney, J. Harte, P. Carey, P. Coakley, S. Mc Conkey, E. De Barra, B. Dinesh, C. Mc Nally*

P0194 **Validation of new infection definitions in assessing evidence of infection in patients with suspected sepsis**
L. Mellhammar (Lund, Sweden), S. Elén, S. Ehrhard, H. Bouma, L. Ninck, E. Muntjewerff, D. Wünsch, F. Bloos, E. Malmström, A. Linder*

P0195 **Prophylaxis for chemotherapy-induced neutropenia in haematologic patients with CRE colonisation: is tigecycline an option?**
L. Bussini (Bologna, Italy), A. Borioni, A. Cilli, F. Miselli, A. Maccaro, B. Tazza, G. Fornaro, Z. Pasquini, F. Esposito, K. Scolz, D. Testi, M. Malosso, E. Rosselli Del Turco, P. Viale, M. Bartoletti*

P0196 **More than an half unjustified antibiotic treatments avoided with a single host biomarker in LOS suspected neonates**
M. Butin (Bron, France), S. Pons, S. Trouillet-Assant, F. Subtil, E. Cornaton, A. Berthiot, S. Galletti, A. Cantais, S. Rapin, L. Trapes, L. Generenaz, K. Brengel-Pesce, O. Claris, A. Portefaix, C. Flamant*

P0197 **A novel diagnostic system for BSI that provides rapid detection and microbial isolation direct from blood**
D. Lockhart (Oxford, United Kingdom), J. Turner, H. Bennett, A. Kadoom, S. La Fauci, Y. Kadoom, E. Mcsorley, P. Jay, W. Mullen, S. Thaker*

P0198 **Efficacy of daptomycin plus fosfomycin in the treatment of enterococcal experimental endocarditis (EE) in an *in vivo* animal model**
C. Garcia De La Maria (Barcelona, Spain), J.C. García González, M. Cañas, A. Dahl, L. Ruiz, J. Ambrosioni, E. Quintana, M. Hernández-Meneses, C. Falces, J. Llopis, B. Vidal, A. Perissinotti, J.M. Tolosana, E. Sandoval, F. Marco, A. Moreno, J.M. Miró*

P0199 **Clinical characteristics and prognosis of patients with endocarditis who are themselves cardiac devices carriers**
M. Olmedo (Madrid, Spain), A. Alvarez-Uria, M. Machado, S. De La Villa, M. Kestler, A. Mari, A. Delgado, G. Cuerpo, C. Ortiz Bautista, M.S. Manuel, I. Adan, A. Pedraz, D. Monzon, E. Bouza, P. Muñoz, M. Valerio*

P0200 **Epidemiology, clinical characteristics and treatment of anaerobic bloodstream infections in a Spanish general hospital**
A. Beteta López (TaLavera De La Reina, Spain), M.P. Fernández Sarratea, A. Silva Asiain, V. Vinuesa Velasco, L. Vega Prado, J. Timón Zapata*

P0201 **Bloodstream infections in patients with haematopoietic stem cell transplantation: preliminary results from a multi-centre prospective study**
P. Palla (Athens, Greece), M. Gamaletsou, I. Konstantinidis, Z. Boussiou, M. Lagkadinou, I. Tsonis, M. Stamouli, A. Paissiou, M. Arapaki, P. Oikonomopoulos, A. Spyridonidis, D. Karakasis, M. Angelopoulou, A. Pouli, M. Marangos, V. Kitra, P. Tsirigotis, D. Sotiropoulos, N. Sipsas*

P0202 **Pre- and post-engraftment bloodstream infections in allogeneic haematopoietic cell transplant recipients**
M. Akhmedov (Moscow, Russian Federation), G. Klyasova, E. Parovichnikova, L. Kuzmina, V. Vasilieva, M. Drokov, A. Fedorova, V. Savchenko*

P0203 **Preliminary experience with ceftobiprole alone or in combination for the treatment of methicillin-resistant *Staphylococcus aureus* bacteraemia: single-centre study**
M. Bartoletti (Bologna, Italy), F. Volpato, L. Bussini, A. Maccaro, S. Tedeschi, O. Vatamanu, M.E. Giacomini, R. Pascale, C. Campoli, M. Giannella, V. Pierluigi*

P0204 **To be or not to be a nasal carrier? Impact of nasal *Staphylococcus aureus* colonisation on patients with *Staphylococcus aureus* bloodstream infection: an examination of host and microbe features and outcome**
A. Blomfeldt (Lørenskog, Norway), S. Frye, J.V. Bjørnholt*

P0205 **Sequential treatment in outpatient parenteral antibiotic therapy programmes versus conventional hospitalisation in *Staphylococcus aureus* bacteraemia: a post-hoc analysis from two prospective cohorts**
L.E. López-Cortés (Seville, Spain), N. Castillo-Fernández, I. Fernández-Natal, J. Goikoetxea Agirre, L. Buzón Martín, M.T. Pérez-Rodríguez, S. Pérez Cortés, F. Barcenilla Gaite, J. Fernández Suarez, C. Armiñanzas Castillo, J.M. Reguera-Iglesias, C. Natera Kindelán, L. Boix-Palop, M.V. Gil Navarro*

P0206 **Differential pneumococcal growth features in severe invasive disease manifestations**
D. Arends (Nijmegen, Netherlands), W. Alkema, I. Hapsari Putri, C. Van Der Gaast-De Jongh, M. Eleveld, J. Langereis, Q. De Mast, J. Meis, M. De Jonge, A. Cremers*

P0207 **Comparison between the commercial automated blood culture systems: time to detection and workflow efficiency**
J.A. Castillo-Polo (Madrid, Spain), M.F. Ampuero-Morisaki, J.L. Cortés-Cuevas, M.J. Cárdenas Isasi, M. Cuesta, S. Talens Pacheco, R. Birch, A.M. Sánchez-Díaz, R. Cantón, A.V. Halperin*

P0208 ***Staphylococcus aureus* bloodstream infections: impact on management and outcome of a bundle approach**
F. Molà (Milan, Italy), L. Gazzola, A. Cona, O. Viganò, A. Tavelli, N. Gemignani, B. Varisco, G.C. Marchetti, A. D'arminio Monforte*

P0209 **Prospective evaluation of septic shock (SS) patients with bacteraemia in a tertiary care educational university hospital: analysis of 207 bacteriological culture-confirmed cases**
D.R. Akyol (Izmir, Turkey), D.R. Baskol Elik, D.R. Mert Vahabi, D.R. Memetali, D.R. Kenanoglu, D.R. Bulut Avsar, D.R. Önal, D.R. Uyan Önal, D.R. Sanlidag, D.R. Guliyeva, D.R. Acet, D.R. Yalçin, D.R. Aydemir, D.R. Erdem, D.R. Tasbakan, D.R. Arda, D.R. Sipahi, D.R. Ulusoy, D.R. Sipahi*

P0210 **Pre-engraftment bloodstream infections after first and second allogeneic haematopoietic cell transplantation**
M. Akhmedov (Moscow, Russian Federation), G. Klyasova, E. Parovichnikova, L. Kuzmina, V. Vasilieva, M. Drokov, A. Fedorova, V. Savchenko*

P0211 **Impact of timing of interventions in the management of sepsis and septic shock**
G. Martín-Gutiérrez (Seville, Spain), J.C. Crespo, J. Molina, M. Aguilar-Guisado, A.B. Guisado-Gil, J.A. Lepe, J.M. Cisneros*

P0212 **The emergence of multidrug-resistant Gram-positive bloodstream infections in India: a single-centre prospective study**
G.K. Bohra (Jodhpur, India), N. Vihari, D. Kumar, D.S. Meena, V. Tak, S. Samantaray, S. Sharma, N. Midha, M.K. Garg*

P0213 **Efficacy of tebipenem pivoxil hydrobromide in patients with complicated urinary tract infection and associated bacteraemia**
A. Talley (Cambridge, United States), P.B. Eckburg, I. Critchley, G. Moore, N. Bhatt, L. Muir, A. Dane, D. Melnick*

P0214 **Oritavancin as a consolidative therapy tool for early discharge in complicated Gram-positive infections**
W. Monier Texidor (Aurora, United States), M. Miller, K. Molina*

P0215 **Descriptive characterisation of sepsis in children admitted to a paediatrics unit of a referral tertiary health centre, northwestern Nigeria: need for advocacy on a concerted review of clinical management of cases**
B.S. Ibrahim (Kano, Nigeria), F. Hassan-Hanga, H. Salisu Kabara, Z. Ahmed Datti, K. Abdulsalam*

P0216 **Enterococcal endocarditis: analysis of incidence and correlates of Gram-positive cocci endocarditis in a cohort of Rio de Janeiro, Brazil**
P.H. Damasco (Rio De Janeiro, Brazil), L. Sousa, N. Rodrigues, P. Lopes, A. Salgado, J. Coutinho, R. Esporcatte, C. Fortes*

P0217 **Effect of intravenous clarithromycin on mortality among patients with sepsis, respiratory and multiple organ dysfunction syndrome: the INCLASS randomised controlled trial**
E. Karakike (Athens, Greece), B.P. Scicluna, M. Roumpoutsou, I. Mitrou, N. Karampela, K. Psaroulis, E. Massa, A. Pitsoulis, P. Chaloulis, E. Pappa, I.T. Schrijver, M. Lada, N. Dauby, D. De Bels, S. Anisoglou, E. Antoniadou, M. Patrani, G. Vlachogianni, E. Mouloudi, D. Grimaldi, T. Roger, I. Tsangaris, E. Giamarellos-Bourboulis*

P0218 ***Elizabethkingia* and *Chryseobacterium* species bloodstream infection in Queensland, Australia 2000-2019**
A. Stewart (Brisbane, Australia), K. Laupland, F. Edwards, D. Paterson, P. Harris*

P0219 **Risk factors for mortality in *Fusobacterium* species bloodstream infection**
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P0220 **Tebipenem pivoxil hydrobromide: safety and tolerability profile of the first oral carbapenem for complicated urinary tract infection and acute pyelonephritis**
A. Talley (Cambridge, United States), P. Eckburg, L. Muir, A. Dane, M. David*

P0221 **Possible outbreak of *Serratia marcescens* in patients under renal replacement therapy**
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P0222 ***In vitro* activity of ceftobiprole plus ampicillin compared with ceftriaxone plus ampicillin against clinical isolates of *Enterococcus faecalis* causing infective endocarditis**
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P0223 ***Pseudomonas aeruginosa* bloodstream infections in patients with cancer: Differences between patients with haematological malignancies and solid tumours**
C. Gudiol (L'hospitalet De Llobregat, Spain), C. Royo, A. Albasanz-Puig, J. Laporte-Amargós,, X. Durà-Miralles, A. Mussetti, I. Ruiz-Camps, P. Puerta-Alcalde, E. Abdala, C. Oltolini, M. Akova, M. Montejo, M. Mikulska, P. Martín-Dávila, F. Herrera, O. Gasch, L. Drgona, H. Paz Morales, A.S. Brunel, E. García, I. Isler, W.V. Kern, S.S. Kanj, O.R. Sipahi,, S. Calik, I. Márquez-Gómez, J.I. Marin, M.Z.R. Gomes, P. Hemmatti, R. Araos, M. Peghin, J.L. Del Pozo, L. Yáñez, R. Tilley, A. Manzur, A. Novo, J. Carratalà*

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A. Rojas (Madrid, Spain), S. De La Villa, M. Valerio, M. Olmedo, M. Kestler, A. Alvarez-Uria, M. Marin, E. Bouza, P. Muñoz*

P0225 **Bloodstream infections in patients with haematological malignancies: a retrospective cohort study (2010-2020)**
L. Fontán García-Rodrigo (Madrid, Spain), P. Vargas, L. Sevillano, C. Herrera, E. Navarro, L. Cardeñoso, M.A. Semiglia Chong*

P0226 **Impact of the COVID-19 pandemic on the management of *S. aureus* bloodstream infection in a tertiary care hospital, Germany**
N.J. Fröböse (Münster, Germany), C. Böing, F. Schaumburg, S. Kampmeier*

P0227 **Prevalence of invasive pneumococcal disease in a tertiary hospital in Madrid**
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P0228 **Incorporation of a commercial system in Gram-negative bloodstream infections workflow diagnosis: experience of Vall d'Hebron University Hospital**
P. Nadal-Barón (Barcelona, Spain), M. Vicente-Ciurans, B. Viñado, E. Quintana, R. Amado, S. González-Di Lauro, A. Rando-Segura, A. Ruiz-Sanmartín, J.C. Ruiz-Rodríguez, R. Ferrer, T. Pumarola, J.J. González-López, M.N. Larrosa*

P0229 **Validation of the INCREMENT-SOT-CPE score in a large cohort of liver transplant recipients with carbapenem-resistant Enterobacterales infection**
M. Rinaldi (Bologna, Italy), C. Bonazzetti, M. Freire, D. Terrabuio, F. Tandoi, R. Romagnoli, F.G. De Rosa, E. Graziano, A. Mularoni, A. Ferrarese, P. Burra, M. Halpern, E. Balbi, J. Simkins-Cohen, L. Abbo, I. Morrás, A. Asensio, L. Alagna, A. Bandera, W. Trindade Clemente, M. Valerio, A. Fernández, P. Muñoz, L. Statlender, D. Yahav, L.F. Camargo Aranha, E.S. Girão, G. Ferraro, P. Viale, M. Giannella*

P0230 **Increasing Gram-negative catheter-related bloodstream infection in cancer patients**
J. Laporte-Amargos (L'hospitalet De Llobregat, Spain), E. Sastre, A. Albasanz-Puig, X. Dura-Miralles, H. Pomares, A. Paviglianiti, M. Rodriguez-Arias, M. Torrecillas, J. Carratalà, C. Gudiol*

P0231 **The association between bacterial species in blood cultures and vital signs measured in commonly used scoring systems**
K. Prytz (Örebro, Sweden), M. Sundqvist, J. Källman, L. Kurland*

P0232 **Time to appropriate antimicrobial treatment in bloodstream infection: a cohort study**
J. Van Heuverswyn (Stockholm, Sweden), J.K. Valik, P. Hedberg, S.D. Van Der Werff, P. Nauclér*

P0233 **Oral step-down versus continued intravenous treatment of Gram-negative bacteraemia: a retrospective cohort study**
A. Fakhriravari (Loma Linda, United States), V. Kobata*

P0234 **High-level colistin resistance in *Acinetobacter baumannii* isolates is mediated by chromosomal mutations and efflux pumps**
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P0235 **Retrospective review of *Staphylococcus aureus* bacteraemia (SAB) in patients infected with COVID-19 admitted to a tertiary hospital**
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P0236 **Genome-wide identification of *Staphylococcus aureus* genetic factors associated with increased risk of persistent bacteraemia**
M. Sánchez-Osuna (Sabadell, Spain), P. Bierge, M. Pedrosa, M. Espasa, O. Gasch, I. Erill, O.Q. Pich*

P0237 **Genomic characterisation of *Enterococcus faecium* isolates with atypical antibiotic resistance and virulence profiles causing bloodstream infections**
P. Bierge (Sabadell, Spain), A.P. Pereira, P. Rabanal, A. Casabella, M. Espasa, C. Garcia De La Mària, L. Peixe, O. Gasch, A.R. Freitas, O.Q. Pich, C. Novais

P0238 **What is the most effective definitive antibiotic monotherapy for severe *Pseudomonas aeruginosa* infection? A systematic review and meta-analysis of randomised controlled trials**
T. Babich (Tel Aviv, Israel), D. Kozlovski, M. Elbaz, E. Halperin, D. Yahav, L. Ieibovici, T. Avni*

P0239 ***Streptococcus pneumoniae* bacteraemic episodes in a tertiary hospital in Madrid: serogroups distribution, antibiotic susceptibility, risk factors and vaccination status**
M.I. Serrano (Madrid, Spain), M. Cabello, P. Moreno, J.C. Sanz, R. Cantón, A.M. Sánchez*

P0240 **Retrospective evaluation of empirical antimicrobial therapy timing impact on the clinical outcomes of septic shock patients**
D. Akyol (Izmir, Turkey), F. Çilli, E. Sezer, M. Tasbakan, T. Yamazhan, H. Pullukçu, H. Sipahi, B. Arda, S. Ulusoy, O.R. Sipahi*

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S. Kitaya (Sendai, Japan), R. Kakuta, H. Kanamori, Y. Katori*

P0242 **A multi-centre survey study to evaluate neonatal sepsis awareness in neonatal units of Switzerland.**
S. Meylan (Lausanne, Switzerland), N. Asper, M. Stocker, J. Regina, L. Griess, M. Schuler-Barazzoni, E. Giannoni*

P0243 **Dynamic of antibiotic tolerance correlates to biofilm formation in an infective endocarditis simulation model**
F.A. Schwartz (Copenhagen, Denmark), J. Struve Andersen, L. Nielsen, L. Christophersen, C. Lerche, R. Lundquist, N. Høiby, C. Moser*

P0244 **Incidence of bloodstream infections (BSI), antibiotic susceptibilities and outcomes following the discontinuation of routine fluoroquinolone (FQ) prophylaxis in neutropenic allogeneic haematopoietic cell transplant (HCT) recipients**
A. Stern (Haifa, Israel), M. Cohen, O. Henig, H. Bar-Yoseph, M. Paul, I. Oren, T. Zuckerman, I. Henig*

P0245 **Prospective evaluation of septic shock patients in a tertiary care educational university hospital: a series of 1395 cases**
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P0246 **Ertapenem containing double carbapenem therapy (ECDCT) in carbapenem-resistant *Klebsiella pneumoniae* bacteraemia: analysis of 53 cases**
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P0247 **Incidence of culture-confirmed meningitis in a global cohort of neonates with sepsis predominantly due to Gram-negative bacteria: an analysis from the NeoOBS study**
A. Cook (London, United Kingdom), D. Dona*

P0248 **Infective endocarditis in non-intravenous drug users' pregnant patients: a multi-national retrospective cohort study**
L. Escolà-Vergé (Barcelona, Spain), P. Rello, C. Declerck, V. Dubée, X. Duval, G. Habib, Y. Lavie-Badie, L. Porte, F. Rouleau, K. Bouiller, F. Goehringer, C. Selton-Suty, N. Issa, N. Hammoudi, C. Lamas, F. Nacinovich, C. Richaud, F.J. Barranco, P. Tattevin, N. Fernández-Hidalgo*

P0249 **Infective endocarditis treatment: differences between available guidelines and clinical practice**
C. Pallotto (Perugia, Italy), F. Paciosi, A. Tommasi, E. Stolaj, E. Svizzeretto, G. Genga, D. Francisci*

P0250 **Efficacy of dual carbapenem treatment in a murine sepsis model of infection due to carbapenemase-producing *Pseudomonas aeruginosa* clinical isolates**
S. Herrera-Espejo (Seville, Spain), E. Del Barrio-Tofiño, T. Cebrero-Cangueiro, C. López-Causapé, R. Álvarez-Marín, J. Pachón, A. Oliver, M.E. Pachón-Ibáñez*

P0251 **Rate of polymicrobial isolates in patients with Gram-negative bloodstream infection (GN-BSI) and impact on outcome: retrospective cohort study**
R. Pascale (Bologna, Italy), Z. Pasquini, T. Miani, L. Bussini, A. Maccaro, B. Tazza, C. Campoli, P. Viale, M. Giannella*

P0252 **Population external validity of a randomised controlled trial on duration of antibiotics: under-representation of patients with cognitive and functional impairment**
A. Turjeman (Tel Aviv, Israel), F. Koppel, E. Franceschini, D. Yahav, G. Dolci, E. Bacca, T. Babich, E. Khazem, E. Baum, R. Nassar, R. Bitterman, Y. Dishon-Benattar, N. Hassoun-Kheir, A. Santoro, N. Eliakim-Raz, I. Poran, B. Pertzov, A. Stern, Y. Dickstein, E. Maroun, M. Raines, M. Meschiari, J. Bishara, E. Goldberg, C. Venturelli, M. Sarti, C. Mussini, M. Paul, L. Leibovici*

P0253 **Duration of treatment for *Pseudomonas aeruginosa* bloodstream infection: a retrospective study**
T. Babich (Rishon Lezion, Israel), P. Naucler, J. Karlsson Valik, C. Giske, N. Benito, R. Cardona, A. Rivera, C. Pulcini, M. Abdel Fattah, J. Haquin, A. macgowan, S. Grier, J. Gibbs, B. Chazan, R. Ben Ami, M. Landes, L. Nesher, A. Zaidman-Shimshovitz, K. mccarthy, D. Paterson, E. tacconelli, M. buhl, S. mauer, J. rodriguez-Bano, I. morales, A. oliver, E. ruiz De Gopegui, A. Cano, I. machuca, M. Gozalo-Marguello, L. Martinez Martinez, E. Gonzalez-Barbera, I. gomez Alfaro, M. Salavert, B. beovic, A. Andreja Saje, M. mueller – Premru, L. pagani, V. Vitrat, D. Kofteridis25, M. Zacharioudaki, S. Maraki, M. paul, Y. dickstein, L. Leibovici, D. Yahav*

P0254 **Under-representation of women in randomised controlled trials: systematic review and meta-analysis**
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P0255 **Similarity between included and excluded patients in an investigator-initiated randomised controlled trial with restricted exclusion criteria in infectious diseases: can it be achieved?**
V. Daitch (Petah-Tikva, Israel), M. Paul, G.L. Daikos, E. Durante-Mangoni, D. Yahav, Y. Carmeli, Y. Dishon-Benattar, A. Skiada, R. Andini, N. Eliakim-Raz, A. Nutman, A. Antoniadou, A. Adler, Y. Dickstein, I. Pavleas, R. Zampino, R. Bitterman, H. Zayyad, F. Koppel, Y. Zak-Doron, I. Levi, T. Babich, A. Turjeman, H. Ben-Zvi, U. Theuretzbacher, L. Leibovici*

P0256 **Is timing everything? A Bayesian meta-analysis of the diagnostic and prognostic utility of time-to positivity (TTP) and differential time-to-positivity (DTP) results for bloodstream infections**
I. Zaghi (Bologna, Italy), V. Sambri, R.E. Lewis*

P0257 **Risk factors for carbapenem-resistant Enterobacterales bacteraemia: study in a university hospital from Argentina**
D. Torres (Buenos Aires, Argentina), F. Herrera, A.N. Rearte, J. Chevel, F. Bues, R. Rojas, M. Leone, D. Sanchez Thomas, E. Temporiti, F. Nicola, S. Relloso, J. Nievas, J. Smayevsky, P. Bonvehi*

P0258 **SIRS and quickSOFA performance as screening tools: results from a retrospective cohort of 2,027 patients in south of Brazil**
F. Tuon (Curitiba, Brazil), M. Santos, M. Perche, P. Basso, V. Orsatti, V. Ribeiro, T. Joao*

P0259 **Comparing qSOFA and NEWS scores for early detection of community-acquired sepsis and septic shock according to sepsis-3 definitions**
S. Meylan (Lausanne, Switzerland), D. Durr, T. Niemi, J. Despraz, T. Selin, F. Dami, R. Akrour, P.N. Carron, M.A. Le Pogam, T. Calandra*

P0260 **Diagnostic value of NETs and PCR in infective endocarditis**
A.Y. Moiseeva (Moscow, Russian Federation), E.O. Kotova, E.A. Domonova, A.S. Pisaryuk, A.S. Gur'ev, D.V. Kassina, Y.I. Babukhina, Y.L. Karaulova, Z.D. Kobalava*

P0261 **Impact of the SARS-CoV-2 pandemic on the diagnosis and treatment of infective endocarditis in a tertiary hospital**
A. Cobos (Madrid, Spain), M. Kestler, M. Valerio, E. Bouza, P. Muñoz*

P0262 **Review of dosing protocols and therapeutic drug monitoring in high-dose amikacin regimens based on EUCAST antimicrobial susceptibility breakpoints**
A. Jenkins (Birmingham, United Kingdom), O. Troise, P. Rafferty, J. Conor, H. Stephen, H. Ryan, F. Kevin*

P0263 **Comparison of genetic features and evolution of global and Chinese strains of methicillin-resistant *Staphylococcus aureus* ST22: a whole genome based survey**
W. Zhou (Hangzhou, China), J. Ye*

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P0265 **Initial empiric broad-spectrum antibiotic therapy did not have impact on mortality of septic patients**
C.L. Pereira Alves Madeira Bezerra (São Paulo, Brazil), E.L. Dos Santos Júnior, M. Salaroli De Oliveira, M.B. Souza Dias, A.S. S Levin, M. p Freire, M. C Salomão*

P0266 **Vascular infections due to *Campylobacter* spp.: a multicentric retrospective study**
C. Tinévez (Bordeaux, France), P. Lehours, A.G. Ranc, F. Velardo, D. Dubois, C. Neuwirth, Y. Belaroussi, H. Pailhoriès, M. Dorel, G. Héry-Arnaud, O. Join-Lambert, E. Gras, S. Corvec, C. Codde, D. Fournier, H. Boijout, V. Doat, L. Bouard, A.S. Lagneaux, M. Pichon, C. Couzigou, C. Letellier, A. Lemaignen, M. Carrer, X. Bérard, C. Caradu, C. Webster, M. Ducours, D. Neau, C. Cazanave, M. Puges*

P0267 **Bacteraemia detection with additional blood cultures in hospitalised patients in a tertiary care hospital: a retrospective observational study**
M.C. Zanella (Geneva, Switzerland), M. De Lorenzi-Tognon, A. Fischer, N. Vernaz, J. Schrenzel*

P0268 **Analysis of multidrug-resistant infectious endocarditis in a tertiary care hospital**
S. De La vilLa (Madrid, Spain), A. Rojas, A. Estevez, A. Alvarez-Uría, M. Valerio, M. Machado, M. Kestler, E. Bouza, P. Muñoz*

P0269 **Ceftazidime-avibactam for the treatment of KPC carbapenemase-producing Enterobacterales bacteraemia: real-life experience from a university hospital in Argentina**
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P0270 **High heterogeneity in clinical management and compliance with EUCAST recommendations for treating bloodstream infections by *Pseudomonas aeruginosa*: results from a nationwide survey in Spain**
J. Molina (Seville, Spain), M. Solla, A. Gimeno, E. García Prieto, N. Merchante, H.H. Vilchez Rueda, P. Jiménez Águilar, P. Martín Dávila, B. Loeches Yagüe, A. Sousa Domínguez, M.Á. Esteban Moreno, M. Puig Asensio, Z. Palacios Baena, M.Á. López Zúñiga, C. Seral García, M.V. García López, M. González De Aledo Fernández, D. Vicente Anza, A. Del Arco Jiménez, J.M. Cisneros Herreros*

P0271 **Culture-based antibiotic prophylaxis to prevent infectious complications in men undergoing transrectal prostate biopsy: a randomised controlled trial**
H. Wertheim (Nijmegen, Netherlands), S. Tops, E. Kolwijck, E. Koldewijn, D.M. Somford, F. Delaere, M.A. Van Leeuwen, A.J. Breeuwsma, T. De Vocht, H. Broos, R. Schipper, M. Steffens, M. Wegdam-Blans, E. De Brauwer, W. Van Den Bijllaardt, A. Leenders, M. Sedelaar*

P0272 **Potential risks of β-lactam/aminoglycoside combinations for the treatment of bloodstream infections: an overview of drug interactions in 254 E. *coli* bloodstream infection isolates**
N. Fatsis-Kavalopoulos (Uppsala, Sweden), L. Roelofs, D.I. Andersson*

P0273 **Prognostic performance of a rapid cellular host response test in a population of respiratory infection patients presenting to the emergency department**
H. O'neal (Baton Rouge, United States), R. Sheybani, T. Caffery, H. Tse, A. Shah, C. Thomas*

P0274 **The role of multivariate scores to determine priority for transoesophageal echocardiography among patients with *Staphylococcus aureus* bacteraemia**
M. Papadimitriou-Olivgeris (Lausanne, Switzerland), P. Monney, G. Tzimas, M. Kirsch, B. Guery*

P0275 **Effectiveness and safety of colistin in older adults: systematic review and meta-analysis**
I. Margalit (Petah-Tikva, Israel), O. Tishler, V. Prendki, M. Falcone, G. Tiseo, F. Shaban, Y. Leibovici-Weissman, M. Paul, D. Yahav*

P0276 **A prospective cohort study on the performance of the modified nutrition risk in the critically ill (NUTRIC) & modified subjective global assessment (SGA) as nutrition risk assessment & prognostic tools among adult septic patients admitted at St. Luke's Medical Center, Quezon City (SLMC-QC)**
K. Reyes-Ortiz (Las Pinas, Philippines), M.C. Rosario, G.M. Zabat*

P0277 **Monotherapy versus combination therapy for sepsis due to carbapenemase-producing *Klebsiella pneumoniae* bloodstream infections in critically ill patients: a propensity score analysis**
M. Papadimitriou-Olivgeris (Lausanne, Switzerland), C. Bartzavali, A. Nikolopoulou, F. Kolonitsiou, M. Valta, F. Paliogianni, F. Fligou, M. Marangos*

P0278 **Risk factors associated with bacteraemia in COVID-19 patients admitted to intensive care unit: a retrospective multi-centre cohort study**
C. Bonazzetti (Bologna, Italy), M. Rinaldi, A. Giacomelli, R. Colombo, D. Ottolina, S.G. Rimoldi, C. Pagani, O. Vatamanu, M.E. Giacomini, C. Campoli, L. Oreni, G. Rizzardini, P. Viale, S. Antinori, M. Giannella*

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M.R. Oggioni (Bologna, Italy), R. Hames, W. Chung, Z. Jasiunaite, S. Tang, T. Kanani, A. Dennison*

P0280 **Effectiveness and safety of intravenous (i.v.) fosfomycin for combination therapy of complicated *S. aureus* infections: first insights from a European, multi-centre, non-interventional and prospective clinical study (FORTRESS)**
S. Hagel (Jena, Germany), N. Käding, S. Kluge, S. Lindau, C. Spies, N.M. Wagner, M. Zoller, D. Codl, N. Weiler, J.T. Kielstein, M. Kieninger, F. Menichetti, C. Tascini, A. Mularoni, M. Vossen, B. Klaus-Friedrich*

P0281 **Emulating the MERINO randomised control trial using data from an observational cohort and trial of rapid diagnostics in bloodstream infection**
A.P. Macgowan (Bristol, United Kingdom), R. Evans, J. Harris, C. Rogers*

P0282 **Association between timing from colonisation and risk of developing *Klebsiella pneumoniae* carbapenemase-producing *K. pneumoniae* infection in hospitalised patients**
Á. Cano (Cordoba, Spain), B. Gutiérrez-Gutiérrez, I. Machuca, J. Torre-Giménez, I. Gracia-Ahufinger, A. M.natera, E. Pérez-Nadales, J.J. Castón, J. Rodríguez-Baño, L. Martínez-Martínez, J. Torre-Cisneros*

P0283 **Acute kidney injury in *Staphylococcus aureus* bacteraemia**
A.C. Westgeest (Leiden, Netherlands), E.F. Schippers, N.M. Delfos, L.G. Visser, J.W. Fijter, M.G.J. Boer, M.M.C. Lambregts*

P0284 **Impact of ceftazidime-avibactam versus best available therapy on mortality from infections caused by carbapenemase-producing Enterobacterales (Cavicor study)**
J.J. Castón (Córdoba, Spain), Á. Cano, I. Pérez-Camacho, J.M. Aguado, J. Carratalá, F. Ramasco, A. Soriano, V. Pintado, L. Castelo-Corral, A. Sousa, M.C. Fariñas, P. Muñoz, V. Abril López De Medrano, O. Sánz-Peláez, I. Los-Arcos, I. Gracia-Ahufinger, E. Vidal, A. Doblas, C. Natera, L. Martínez-Martínez, J. Torre-Cisneros*

P0285 **Predominance of CC398 among *Staphylococcus aureus* hospital-acquired bloodstream infections in ICU setting: REAexplAUR multi-centre study, 2021**
N. Van Der Mee-Marquet (Tours, France), S. Dos Santos, A.S. Valentin, S. Alfandari, A. Allaire, V. Barry-Perdereau, Y. Berrouane, S. Bourdon, V. Bréan, A. Cécille, J. Delhomme, M. Demasure, A.M. Detullio, C. Douat-Beyries, S. Gallais, F. Guasp, C. Guignabert, S. Joron, B. Laurent, C. Lawrence, M. Lepainteur, M. Lecuru, V. Marie, L. Marty, M. Mesnil, L. Mereghetti, V. Morange, C. Neulier, A. Perez, P. Veyres, C. Victoire, O. Zamfir*

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C. Trigueiros (Dublin, Ireland), D. Alves Ferreira, A.J. Mcdonnell, Z. Dunphy, S. Ryder, M. Martins*

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A. Kovacevic (Paris, France), L. Opatowski*

P0289 **The elusive infiltrate: lower respiratory tract infections with negative chest X-rays among patients requiring hospitalisation**
K.G. Rögnvaldsson (Reykjavik, Iceland), A. Bjarnason, I.S. Ólafsdóttir, K.O. Helgason, A. Guðmundsson, M. Gottfreðsson*

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M. Holgersen (Copenhagen, Denmark), K. Nielsen*

P0291 **Findings from country antimicrobial resistance (AMR) analysis in India, Pakistan, Russia, Turkey and Vietnam in the context of community-acquired respiratory tract infections: links between antibiotic susceptibility, local and international antibiotic prescribing guidelines, access to medicine and clinical outcome**
D.T. Torumkuney (London, United Kingdom), S.K. Kundu, N.K. Keles, R.M. Manenzhe*

P0292 **CEFTO-CURE Study: CEFTObiprole clinical use in real-life; preliminary analysis of a multi-centre experience in Italy**
I. Gentile (Naples, Italy), A.R. Buonomo, F. Canta, L. Paradiso, D.R. Giacobbe, D.F. Bavaro, G. Tiseo, F. Sordella, M. Bartoletti, G. Palmiero, A. Vena, N. Schiano Moriello, P. Congera, C. Tascini, P. Viale, V. Del Bono, M. Falcone, S. Carbonara, M.K. Mikulska, M. Bassetti, E. Durante Mangoni, F.G. De Rosa, A.E. Maraolo*

P0293 **Analysis of colonisations of patients with cystic fibrosis in a period of ten years in a tertiary hospital in Zaragoza, Spain**
O. Algara Robles (Zaragoza, Spain), M.A. Arias Alonso, V. Frutos Millan, L. Franco Fobe, S. Sanz Sanz, N. Burillo Navarrete, A. Tristancho Baro, S. Nabal Diaz, A. Lopez-Calleja, J. Viñuelas Bayon, M. Latorre Millan, M.P. Peris, A. Rezusta*

P0294 ***Haemophilus influenzae* in chronic lung and non-chronic lung patients: are there differences between groups?**
Daniel Romero (Barcelona, Spain), D. Romero-Herrero, M. Abal Argente, M.C. Lopez Perez, F. Barroso Portillo, M.T. Martin-Gomez*

P0295 **Emergence and dissemination of pertactin-deficient *Bordetella pertussis* carrying an unusual mechanism of pertactin disruption in Spain**
A. Mir-Cros (Barcelona, Spain), A. Moreno-Mingorance, M.T. Martín-Gómez, R. Abad, I. Bloise, M. Campins, A. González-Praetorius, M.N. Gutiérrez, H. Martín-González, C. Muñoz-Almagro, M.Á. Orellana, M. De Pablos, J. Roca-Grande, C. Rodrigo, M.E. Rodríguez, S. Uriona, M.J. Vidal, T. Pumarola, M.N. Larrosa, J.J. González-López*

P0296 **Comparative analysis of microbiologic characteristics and biofilm formation of *Klebsiella pneumoniae* causing pneumonia according to presence or absence of K1/K2 capsular types**
M. Hyun (Daegu, Korea, Republic of), J.Y. Lee, H.A. Kim*

P0297 **Predictors of radiological pneumonia among patients with a clinical suspicion of pneumonia in Swiss primary care**
C. Fischer (Lausanne, Switzerland), J. Knüsli, L. Lhopitallier, T. Estelle, M.G. Meuwly, J.Y. Meuwly, A. Kronenberg, I. Locatelli, Y. Mueller, N. Senn, N. Boillat-Blanco*

P0298 **Spatial clustering of scarlet fever transmission in children**
E. Lau (Hong Kong, China), H. Chua*

P0299 **Effect of CFTR modulators treatment in bacterial chronic colonisation in 14 adult cystic fibrosis patients**
T. Alarcón (Madrid, Spain), L. Sevillano, E. Navarro, C. Herrera, R. Girón, A. Ibañez*

P0300 **Non-invasive pneumococcal pneumonia in Portugal (2016-2018): the importance of conjugate vaccine serotypes**
C. Silva-Costa (Lisbon, Portugal), J. Gomes-Silva, A. Santos, M. Ramirez, J. Melo-Cristino*

P0301 **Older female adults are associated with reduced incidence of invasive pneumonia after a pneumococcal vaccine: a retrospective cohort study**
S. Bandy (Austin, United States), C. Black, A. Anderson, R. Benavides, G. Lee*

P0302 **Serotype distribution and antimicrobial susceptibility of *Streptococcus pneumoniae* isolates causing acute exacerbations of chronic obstructive pulmonary disease or pneumonia**
L. Fernández-Delgado (Barcelona, Spain), A. González-Díaz, J. Càmara, F. Tubau, S. Santos, S. Martí, M.A. Dominguez, J. Yuste, C. Ardanuy*

P0303 **Overdiagnosis and treatment of aspiration pneumonia in ICU**
M. Chancel (Amiens, France), Y. Zerbib, M. Slama, J. Maizel, I.J.P. Lanoix*

P0304 **Should we perform changes in the management of community-acquired pneumonia? How aetiology, clinical factors and severity outcomes have evolved along a ten-year period**
J. Sellarès-Nadal (Barcelona, Spain), J. Burgos, M.T. Martin-Gómez, A. Antón, S. Roger, D. Romero-Herrero, P. Bosch-Nicolau, A. Falcó-Roget, C. Kirkegaard, D. Rodriguez-Pardo, O. Len, V. Falcó*

P0305 **Elucidating *Haemophilus influenzae* type b epidemiology in the Netherlands using whole genome sequencing**
R. Mariman (Bilthoven, Netherlands), L. Visser, C. Kiki, A. Steens, C. Schot, A. Van Der Ende, B. Van Der Putten, K. Trzcinski, W. Miellet, N. Van Sorge, T. Bosch*

P0306 **Description and characterisation of pneumococcal community-acquired pneumonia (CAP) among radiologically confirmed CAP in outpatients: results from a multi-centre observational study**
J. Le Bel (Paris, France), J. Pinot, T. Alfaiate, M. Ecollan, F. Cussac, R. Pecqueur, M.P. Revel, C. Vartanian, E. Varon, C. Theilacker, X. Duval, H. Partouche, C. Laouénan, S. Gilberg*

P0307 **Low-dose CT compared to lung ultra sonography vs standard of care based-strategies for the diagnosis of pneumonia in the elderly: a multicentre randomised controlled trial (OCTOPLUS)**
V. Prendki (Geneva, United States), N. Garin, J. Stirnemann, C. Combescure, A. Platon, E. Bernasconi, T. Sauter, W. Hautz*

P0308 **Evolution and distribution of pneumococcal conjugate vaccines serotypes causing community-acquired pneumonia in adults in Spain, 2016-2020 (the CAPA study)**
R. Menéndez (Valencia, Spain), P.P. España, A. Torres, J.A. Fernández-Villar, J.M. Marimón, J.L. López-Hontangas, A.P. Martínez De La Fuente, F. Marco, F.J. Vasallo, M. Ercibengoa, I. Cifuentes, C. Méndez*

P0309 **Antibiotic overtreatment in inpatient community-acquired pneumonia**
J. Wagner (Jackson, United States), J. Oh, K. Stover, K. Barber*

P0310 ***In vivo* efficacy of adjuvant interferon gamma in treatment of pneumonia caused by *Legionella longbeachae* in experimental neutropenic guinea pig model**
P. Kavaliauskas (New York, United States), R. Grigaleviciute, V. Petraitis, R. Petraitiene, R. Planciuniene, V. Zigmantaite, A. Kucinskas, A. Pockevicius, T. Walsh*

P0311 **Comparing the public health impact of a 15- or 20-valent pneumococcal conjugate vaccine paediatric national immunisation programme in Portugal**
R. Teixeira (Lisbon, Portugal), A. Maia, V. Sundaram, M. Wasserman, C. Mcdade, M. Wilson, J. Perdrizet*

P0312 **Ceftaroline fosamil real-world use patterns and treatment outcomes in adult patients hospitalised with community-acquired pneumonia: final data from a multinational, retrospective study**
A. Soriano (Barcelona, Spain), M. Bassetti, F. Blasi, C. Gogos, G. Luna, W. Ansari, R. Chambers, M. Kantecki, T. Ferry*

P0313 **Metabolic profiles over time for treatment response monitoring in community-acquired pneumonia**
I. Den Hartog (Leiden, Netherlands), L.B. Zwep, T. Hankemeier, E.M.W. Van De Garde, J.G.C. Van Hasselt*

P0314 **Incidence of acute lower respiratory tract disease hospitalisations among adults in Bristol, United Kingdom 2020–21**
B. Begier (Ballylinan, Ireland), C. Hyams, J.S.C. Southern, J. King, A. Morley, M. Garcia Gonzalez, Z. Szasz-Benczur, J. Kinney, J. Campling, S. Gray, J. Oliver, R. Hubler, S. Valluri, A. Vyse, G. Ellsbury, B. Gesnner, A. Finn*

P0315 **Secondary care cost of adult community-acquired pneumonia in England**
J.A. Campling (Tadworth, United Kingdom), H.F. Wright, G.C. Hall, T. Mugwagwa, A. Vyse, D. Mendes, M.P.E. Slack, G.F. Ellsbury*

P0316 ***In vitro* evaluation of delafloxacin activity against contemporary European isolates from community-acquired pneumonia and lower respiratory tract infections: results from the SENTRY Antimicrobial Surveillance Program (2018-2021)**
D. Shortridge (North Liberty, United States), J.M. Streit, M.D. Huband, M. Castanheira*

P0317 **Validation of IDSA/ATS guidelines for ICU admission in very elderly patients with community-acquired pneumonia**
C. Cilloniz (Barcelona, Spain), M. Ferrer, J.M. Pericas, L. Serrano, R. Mendez, H. Peroni, A. Gabarrus, L.A. Ruiz, R. Menendez, R. Zalacain, A. Torres*

P0318 **Quantifying the gap between expected and actual rates of antibiotic prescribing in British Columbia, Canada**
A. Saatchi (Vancouver, Canada), J.W. Yoo, K.L. Schwartz, M. Silverman, A.M. Morris, D.M. Patrick, J. Mccormack, F. Marra*

P0319 **Whole genome sequencing based classification, genotyping, serotyping and resistance prediction of human-related *Haemophilus* species**
M. Diricks (Borstel, Germany), T.A. Kohl, N. Käding, V. Leshchinskiy, S. Hauswaldt, O. Jiménez Vázquez, C. Utpatel, S. Niemann, J. Rupp, M. Merker*

PS012

2d. Community-acquired abdominal/gastrointestinal, urinary tract & genital infections

P0320 **Prediction of immunodominant regions of the P140 adhesin from the human pathogen *Mycoplasma genitalium***
M. Marcos-Silva (Barcelona, Spain), P. Bierge, J. Jiménez, J. Sendra-Molina, D. Vizárraga, M. Espasa, I. Fita, D. Aparicio, O.Q. Pich, J. Piñol*

P0321 **Comparison of uropathogens and antibiotic resistance patterns among Split-Dalmatia County (SDC) and Virovitica-Podravina County (VPC), Republic of Croatia**
A.D. Pavisic (Split, Croatia), Z. Barisic, S. Baranjec, H. Eskinja*

P0322 ***Chlamydia trachomatis* and *Neisseria gonorrhoeae* diagnosis: challenges during the COVID-19 pandemic**
A. Irigoyen (Madrid, Spain), M. Palomo, C. Sánchez, P. Muñoz*

P0323 **Damage and disruption of epithelial cells in colonisation and pathogenesis by Hv*Kp***
M. Vandeputte (Edinburgh, United Kingdom), K. Morgan, K. Samuel, M. Waterfall, P. Hayes, J. Plevris, T. Dorai-Schneiders*

P0324 **The molecular characterisation of ST131 and non-ST131 *Escherichia coli* in healthy faecal carriers in Tehran, Iran**
A. Hajihasani (Tehran, Iran, Islamic Republic of), M. Ebrahimi-Rad, M. Rasoulinasab, M.M. aslani, F. shahcheraghi*

P0325 **Outcome to treatment with moxifloxacin in macrolide-resistant strains of *Mycoplasma genitalium* isolated in Navarra**
A. Gil Setas (Pamplona, Spain), M. Fernández-Huerta, X. Beristain, J. Indurain, M.E. Portillo, A. Miqueleiz, I. Arregui, I. Beguiristain, M. Elía, C. Ezpeleta*

P0326 **Visual characterisation of bacteria in colorectal cancer: an observational study**
L. Kvich (Copenhagen, Denmark), I. Gögenur, T. Bjarnsholt*

P0327 **Molecular epidemiology of uropathogenic *Escherichia coli* isolates from hospitals in Riyadh, Saudi Arabia**
R. Aljohani (Riyadh, Saudi Arabia), D. Elfeky, L. Okdah, M. Doumith, E. Alrashidi, M. Algoribi*

P0328 **Antibiotic susceptibility profile of genital mycoplasmas isolated from symptomatic reproductive-age women over the last 15-years in Athens, Greece**
V. Koumaki (Athens, Greece), S. Demeridou, G. Kaparos, M. Dagre, K. Tsoutsouras, S. Touloumakos, S. Meretaki, A. Tsakris, S. Baka*

P0329 **Introduction of a process approach to the organisation of prevention of neonatal infections caused by group B *Streptococcus***
I. Grigoryan (Moscow, Russian Federation), T. Priputnevich, N. Kan, A. Melkumyan*

P0330 **Oral fosfomycin-tromethamine for acute bacterial prostatitis treatment: a single-centre experience**
C. Fanelli (Sassari, Italy), V. Fiore, A. De Vito, S. Bacciu, A. Colpani, B. Zauli, G. Madeddu, S. Babudieri, I. Maida*

P0331 **Assessing the real-world clinical outcomes of patients treated with eravacycline for intra-abdominal infections**
A. El Ghali (Detroit, United States), S. Alosaimy, A.M. Lagnf, K.C. Molina, T. Morrisette, S.L. Kang-Birken, K.C. Claeys, S. Tart, G. Huang, B.M. Jones, M. King, B.M. Pullinger, M.P. Veve, M. Biagi, M. Pierce, J. Bouchard, T. Gore, L.M. Rojas, A.L.V. Hobbs, N.B. Perkins Iii, N. Rebold, D. Holger, A. Kunz Coyne, S.L. Davis, M.J. Rybak*

P0332 **Clinical significance of *Alloscardovia omnicolens* isolation in urine samples**
L.M. Cardeñoso Domingo (Madrid, Spain), C. Herrera Castañeda, A. Yarci Carrión, A. García Blanco, M. Díez-Aguilar*

P0333 **Uropathogen detection by precision metagenomics in culture-positive, culture-negative, and volunteer urine**
R. Stinnett (Salt Lake City, United States), S. Stauffer, M. Mangifesta, A. Hanson, K. Broadbent, J. Lemon, R. Schlaberg*

P0334 **Evaluation of effectiveness of flocked swabs for the detection of vaginal microorganisms**
V.S. Bazarova (Moscow, Russian Federation), S.V. Bogomazova, Y.S. Dzyuro, N.A. Gasilova*

P0335 **Significance of TLR2 and TLR4 in etiopathogenesis of abdominal abscesses due to bacterial translocation**
M. Mishyna (Kharkiv, Ukraine), I. Marchenko, Y. Mozgova, S. Malanchuk, V. Davydenko, O. Dubovyk, Y. Mishyn*

P0336 **Clonal structure and plamidome of ESBL-producing *Escherichia coli* strains belonging to the high-risk clone ST131 and other emerging lineages causing extraintestinal infections**
S.C. Flament-Simon (Lugo, Spain), M. De Toro, M.H. Nicolas-Chanoine, M.P. Alonso, J. Roncero Dos Santos, J.E. Blanco, M. Blanco, J. Blanco*

P0337 **Characterisation of Shiga toxin-producing *Escherichia coli* in Navarra**
E. Erviti Machain (Pamplona, Spain), M. Elía López, I. Arregui García, J.J. García Irure, C. Bayo Sanchez, I. Razquin Olazarán, L. Henríquez Mederos, I. Beguiristain Calvo, C. Ezpeleta Baquedano*

P0338 **An outbreak of extended-spectrum beta-lactamases (ESBL) producing *Salmonella* Mikawasima in Split-Dalmatia County, Croatia 2020 - 2021**
M. Carev (Split, Croatia), A. Novak, A. Kovacic, M. Tonkic*

P0339 **Validation of a real-time detection kit for the detection of the two main bacterial sexually transmitted infections: *Chlamydia trachomatis* and *Neisseria gonorrhoeae***
M.P. Peris (Zaragoza, Spain), A. Milagro, B. Dehesa-García, N. Martínez, B. Gilaberte, N. Gamadiel, D. Martínez, M. Latorre, A. Rezusta*

P0340 **Lymphogranuloma venereum in a public health hospital in southern Spain: a clinical and epidemiologic study**
Y. García Collado (Málaga, Spain), R. Martínez Pérez, C. García Pérez, E. Clavijo Frutos, M.V. García López*

P0341 **Prevalence of *Neisseria gonorrhoeae* in the health area of HUiP La Fe, Valencia, Spain**
A. Sellés-Sánchez (Valencia, Spain), J.M. Sahuquillo-Arce, M. Rubio-López, M.J. Castaño-Aroca, B. Acosta-Boga, J.L. López-Hontangas*

P0342 **Kidney stones microbial diversity**
A. Sellés-Sánchez (Valencia, Spain), J.M. Sahuquillo-Arce, B. Acosta-Boga, D.G. Ordaz-Jurado, F. Gomez-Palomo, J.L. López-Hontangas, A. Budía-Alba*

P0343 ***Aerococcus urinae* more than a new pathogen it is a better understood pathogen in urine infections**
A. Gi-Setas (Pamplona, Spain), X. Beristain, J. Indurain, E. Erviti, C. Bayo, I. Arregui, C. Ezpeleta*

P0344 **Comparison of occurring multidrug-resistance plasmids in *Klebsiella pneumoniae* in urinary tract infections (UTIs) and retail meat originating from Spain**
J.A. Hammerl (Berlin, Germany), I. García-Meniño, P. Lumbreras, L. Lestón, J. Fernández Dominguez, A. Mora*

P0345 **Effectiveness of five different antibiotic protocols for the treatment of community-acquired intra-abdominal infection in Bogotá**
G.A. Muñeton López (Bogotá, Colombia), C.H. Saavedra Trujillo, J.P. Alzate Granados, Y.I. Diez Salazar, K. Arévalo Pereira, L.C. Sánchez Fandiño, L.F. Cárdenas, J.P. Velásquez, A.D. Lasso*

P0346 **Treatment patterns and outcomes among females with uncomplicated urinary tract infection in Germany: a physician-based chart review**
F. Wagenlehner (Giessen, Germany), M. Kresken, K. Naber, W.Y. Cheng, M. Catillon, A. Mulgirigama, M.S. Duh, L. Yu, A. Khanal, A.V. Joshi, S. Ju, F.S. Mitrani-Gold*

P0347 **Effect of inappropriate treatment in hospitalised adult patients with pyelonephritis in empirical management with cefuroxime, a cohort study**
J. Cortes (Bogotá, Colombia), R. Sánchez-Pedraza*

P0348 **Detection of *Neisseria gonorrhoeae* and *Chlamydia trachomatis* by PCR in pooled samples (urine, rectum and pharynx) in asymptomatic patients at risk of STD**
S. Narváez (Barcelona, Spain), N. Arnalda, M. López, V. Gilera, I. Chivite, D. García, J. Riera-Monroig, J. Bosch*

P0349 **Impact of robotic kidney transplantation on post-transplant infections: a case control study**
M. Bodro (Barcelona, Spain), S. Herrera, F. Cofan, I. Abalde, E. Bernabeu, M. Musquera, L. Peri, J. Bernal-Maurandi, I. Revuelta, F. Dieckmann, A. Alcaraz*

P0350 **Core genome and plasmidome analysis of ESBL-producing *Escherichia coli* strains belonging to different clades of the ST131 clonal complex**
S.C. Flament-Simon (Lugo, Spain), M. De Toro, M.H. Nicolas-Chanoine, M.P. Alonso, J. Roncero Dos Santos, J.E. Blanco, M. Blanco, J. Blanco*

P0351 **Aetiology of acute epididymitis (AE) in young patients under 35 years**
A. Yanovskay (Afula, Israel), C. Kasher, A. Hussein, M. Cohen, D. Sagas, M. Strauss, B. Chazan*

P0352 **Suboptimal positive predictive value of urinalysis and urinary sediment at the emergency department to predict urine culture with significant bacterial growth**
J. Origüen (Madrid, Spain), H. Serrano-Llop, M. Sánchez-Romero, M. Gil-Mosquera, R. Pacheco, L. Castro-Arias, R. San Juan, M. Fernández-Ruiz, F. López-Medrano, F.P. Alba María, L.J. Elena Ana, J.M. Aguado*

P0353 **The pathogenetic value of the vegetative endothelial growth factor in multiple abscesses of the abdominal cavity caused by *Pseudomonas aeruginosa***
S. Malanchuk (Kharkiv, Ukraine), M. Mishyna, I. Marchenko, Y. Mozgova, Y. Mishin, O. Kozlov, O. Hololobova*

P0354 **Efficacy and safety of three antibiotic regimens, including gentamicin in patients with acute appendicitis: preliminary results**
N. Obolnar (Ljubljana, Slovenia), M. Pirš, T. Pintar, Ž. Cebron, B. Beovic*

P0355 **Correlation of inflammation on routinely performed cervical Papanicolaou smear with microbiological test results in asymptomatic women**
S. Baka (Athens, Greece), S. Demeridou, G. Kaparos, K. Tsoutsouras, S. Touloumakos, M. Dagre, S. Meretaki, V. Koumaki, A. Tsakris*

P0356 **Clinical characteristics and laboratory feature of positive syphilis serology and meningovascular neurosyphilis in patients presented with acute ischaemic stroke and transient ischaemic attack**
A. Boonyasiri (Bangkok, Thailand), P. Jitpratoom*

P0357 ***Neisseria gonorrhoeae*: an overview of the situation in Lisbon**
V. Rodrigues (Lisbon, Portugal), M. Azevedo, P. Paixão, M.J. Borrego*

P0358 **Prevalence and antimicrobial susceptibility of *Corynebacterium glucuronolyticum* in bacterial prostatitis**
E. Serrano-Conde (Granada, Spain), A. Alberola Romano, C. Gómez-Camarasa, M. Illescas López, L. Chaves Blanco*

P0359 **Aetiology and antimicrobial susceptibility of biliary tract infections in Granada, Spain**
E. Serrano-Conde (Granada, Spain), L. Pérez-Rodriguez, F. Ferrer-Amate, M. Illescas-López, L. Chaves-Blanco, L. Viñuela-González*

P0360 **National cartography of water points for the presence of *Vibrio* spp. in Belgium**
R. Sacheli (Liège, Belgium), C. Philippe, P. Melin, M.P. Hayette*

P0361 **Evaluation of microbiome enrichment and host DNA depletion in human vaginal samples using adaptive nanopore sequencing**
M. Marquet (Jena, Germany), J. Zöllkau, J. Pastuschek, A. Viehweger, E. Schleußner, O. Makarewicz, M.W. Pletz, R. Ehricht, C. Brandt*

P0362 **Frequency of typhoid carrier in patients undergoing cholecystectomy for gall bladder diseases using real-time PCR**
S. Qureshi (Karachi, Pakistan), J. Iqbal, T. Chawla, A.M. Kazi, N. Rahman, M. Fletcher, F. Qamar*

P0363 **Overtreatment of asymptomatic bacteriuria in emergency departments in the Netherlands**
T.M. Van Horrik (Amsterdam, Netherlands), B.J. Laan, J.E. Stalenhoef, C. Van Nieuwkoop, J.B. Saanen, C. Schneeberger, S.E. Geerlings*

P0364 **ESBL-producing *Enterobacteriaceae* carriage and sexual behaviors: a cross-sectional study, France, 2018-2019**
P. Mathieu (Paris, France), K. Lacombe, A. Boyd, L. Surgers*

P0365 **The association of body mass index, height, parity, and sociodemographic factors with uncomplicated cystitis in fertile women: a nationwide cohort study**
F. Jansåker (Malmö, Sweden), X. Li, K. Sundquist*

PS013

2e. Community acquired skin, soft tissue, bone & joint (excl prostheses)

P0366 ***Staphylococcus aureus* prophages encoding human immune evasion cluster (IEC) genes are enriched in chronic rhinosinusitis patients with nasal polyps**
R. Nepal (Woodville, Australia), G. Houtak, G. Shaghayegh, G. Bouras, P.J. Wormald, A. Psaltis, S. Vreugde*

P0367 **An increasing number of infections in the Nordic countries are caused by the atypical methicillin-resistant *Staphylococcus aureus* (MRSA) t4549 ST630 (CC8) with extensive genomic recombination, a novel SCC*mec* subtype and a CRISPR-Cas system**
R.N. Sieber (Copenhagen, Denmark), H. Kaya, S. Overballe-Petersen, D.Y.K. Ng, T.R. Urth, J. Larsen, M. Stegger, B. Mäkitalo, J. Darenberg, H. Enger, G.Æ. Haraldsson, L. Lindholm, M.D. Bartels, M.K.A. Holm, A.R. Larsen, A. Petersen*

P0368 **Evolution and pathogenicity of *Staphylococcus aureus* ST398 from human and animal sources**
Q. Lin (Antwerp, Belgium), J. Vlaeminck, K. Surmann, D. Raafat, S. Holtfreter, L. Timbermont, B.B. Xavier, C. Lammens, D.E. Tabor, J.A.J.W. Kluytmans, F.E.J. Coenjaerts, H.S. Jafri, B. Francois, A. Ruzin, M.T. Esser, W.J.B.V. Wamel, U. Völker, H. Goossens, S.M. Kumar*

P0369 **Effect of a cut-off value on the sensitivity and specificity of sonication fluid culture in postoperative spinal implant-associated infections**
A. Erbeznik (Ljubljana, Slovenia), A. Mercun, M. Vodicar, P. Maver Vodicar*

P0370 **Electrospun antimicrobial, anti-inflammatory, and analgesic bandages for comprehensive wound treatment**
B. Chirra (Bryan, United States), K. Shah, M. Chapman, R. Raina, M. Southerland, C. Cannon*

P0371 ***Staphylococcus lugdunensis*: prevalence and clinical significance in a third-level Spanish hospital**
N. Hernando-Parreño (Santa Cruz De Tenerife, Spain), I. Gutiérrez-González, C. Palacios-Clar, C. Mateo-León, J. Rodríguez-Afonso*

P0372 **The challenge of antibiotic resistance in the post-war phase in Mosul, Iraq: an analysis of 20 months microbiological samples from a tertiary orthopaedic care centre**
A. Williams (Beirut, Lebanon), K. Maamari, S. Madhi, K. Moussally, E. Repetto, A. Qasim, Z. Albakry, J. Alsharaby*

P0373 **Photocatalytic quantum dots armed bacteriophages for combating multidrug-resistant bacteria**
L. Wang (Berlin, Germany), F. Xin, G.M. Mercedes, T. Andrej*

P0374 **Toxin-producing *Staphylococcus aureus* clinical isolates: where are we in a university hospital of western Normandy?**
B. Senatore (Caen, France), F. Gravey, S. Le Hello, C. Isnard*

P0375 **Antimicrobial effect of hydrogel matrix based on gum karaya resin supplemented by the phage preparation on methicillin-resistant *Staphylococcus aureus* strains**
L. Vacek (Brno, Czech Republic), D. Kleknerová, A. Siváková, R. Pantucek, M. Benešík, L. Vojtová, E. Cerná, F. Ružicka*

P0376 **Real-world use and treatment outcomes of ceftaroline fosamil in patients hospitalised with complicated skin and soft tissue infection: a multinational retrospective study**
T. Ferry (Lyon, France), M. Bassetti, F. Blasi, C. Gogos, G. Luna, W. Ansari, R. Chambers, M. Kantecki, A. Soriano*

P0377 **Neutralising anti-Panton-Valentine leukocidin antibodies in Africans and Caucasians**
F. Schaumburg (Münster, Germany), T. Grebe, V. Rudolf, C. Gouleu, B. Löffler, A.A. Adegnika, A. Shittu, A. Siegmund, S. Niemann*

P0378 **Indigenous melioidosis presenting as septic arthritis in a Filipino patient with severe COVID-19: a case report**
M.K.C. Genese (Baguio City, Philippines), M.A.K.L.A. Demot, S. Bartolo, K.J. Cortez, C. Ariz*

P0379 **Skull base osteomyelitis: a dreaded clinical entity**
I. Khanum (Karachi, Pakistan), D. Kanwar, K. Habib*

PS014

2f. Community acquired nervous system and other multi-system bacterial infections

P0380 **Cost analysis of daptomycin versus vancomycin for the treatment of Gram-positive infections in hospitalised patients**
J. Wagner (Jackson, United States), B. Jones, K. Stover, K. Barber, C. Bland, K. Schipper, D. Chastain, J. Cleary*

P0381 **Brain abscess and risk of cancer: a nationwide population-based matched cohort study**
J. Bodilsen (Aalborg, Denmark), H. Nielsen, K.K. Søgaard, L.H. Omland*

P0382 **Risk score for identifying patients at low risk of bacterial meningitis and other urgent treatable causes in adults with CSF pleocytosis and a negative Gram stain**
L. Ter Horst (Amsterdam, Netherlands), T. Van Soest, M. Bijlsma, M.C. Brouwer, D. Urueta Portillo, D. Van De Beek, R. Hasbun*

P0383 **Clinical characteristics, diagnosis, and treatment of neurosyphilis: a multi-centre Italian cohort study**
A. De Vito (Sassari, Italy), A. Colpani, N. Geremia, A. Calcagno, M. Trunfio, I. Dal Conte, A. Di Biagio, R. Pincino, R. Casciaro, M. Farinazzo, G. Caligaris, S. Babudieri, G. Madeddu*

P0384 **Pneumococcal meningitis: 28 years of follow-up**
T. Nebreda Mayoral (Valladolid, Spain), B. González Fernández, J. Gutierrez Ballesteros, A.M. Martínez García, E. Cantón Benito, L. Tejedor Cantero, V. Cerpa Almenara, A. Orduña Domingo*

P0385 **Identification of new pneumococcal virulence genes in a larval zebrafish meningitis model**
R. Koning (Amsterdam, Netherlands), K.K. Jim, V. Jaspers, C.M.J.E. Vandenbroucke-Grauls, M. Brouwer, D. Van De Beek*

P0386 **A decade of bacterial intracranial abscesses in a national neurosurgical centre**
E. Glynn (Dublin, Ireland), C. Mulrooney, S. Kelly, B. Dinesh, K. Burns, K. O'Connell, S. O'Donnell, F. Fitzpatrick, C. O'Connor*

P0387 **Bacterial meningitis in adults with alcohol abuse: a nationwide, population-based cohort study**
T. Mariager (Aalborg, Denmark), H. Nielsen, J. Bodilsen*

P0388 **Tuberculous meningitis : an experience of a 27-year period**
M. Ben Jemaa (Sfax, Tunisia), F. Hammami, M. Koubaa, K. Rekik, F. Smaoui, I. Bougharriou, C. Marrakchi*

P0389 **Evaluation of the epidemiologic, clinical, radiologic and treatment of patients with subacute and chronic meningitis**
I. Alavi Darazam (Tehran, Iran, Islamic Republic of), N. Bineshfar, A. Rezaei, A. Mirahmadi*

P0390 **Care paths of pneumococcal meningitis with sepsis in France: a retrospective analysis of a French medico administrative (PMSI) database**
M. Thy (Paris, France), C. Dupuis, B. Mourvillier, L. Bouadma, S. Ruckly, A. Perozziello, D. Van-Gysel, E. De Montmollin, J.F.T. Timsit*

P0391 **The clinical, epidemiologic and outcome of brain abscess: an experience for more than one decade**
I. Alavi Darazam (Tehran, Iran, Islamic Republic of), F. Hatami, N. Khabiri*

P0392 **Predictor factors of unfavorable outcome among malignant otitis externa cases**
M. Ben Jemaa (Sfax, Tunisia), F. Hammami, M. Koubaa, K. Rekik, F. Smaoui, I. Bougharriou, C. Marrakchi*

P0393 **Activin A enhances elimination of bacteria from the central nervous system, but does not improve survival in a mouse model of *Escherichia coli* meningitis**
S. Schütze (Göttingen, Germany), C. Diesselberg, A. Manig, U. Michel, R. Nau*

P0394 **Cerebrospinal fluid sex steroid hormones in pneumococcal meningitis**
S. Dias (Amsterdam, Netherlands), M. Brouwer, A. Boelen, D. Van De Beek*

P0395 **Comparison of single vs. combination drug therapy in extensively drug-resistant *Salmonella typhi*: an observational study from Pakistan**
S. Ishaque (Karachi, Pakistan), B. Syed, S. Kumar Dodani, S. Anwar*

P0396 **Meningeal cells participate in regulating the immune response to pneumococcal infection**
L. Ercegovac (Munich, Germany), B. Angele, S. Dyckhoff-Shen, S. Hammerschmidt, M. Klein, U. Ködel, T. Kohler, H.W. Pfister*

P0397 **Plasminogen activator inhibitor-2 influences immune regulation, cerebrovascular complications and death in pneumococcal meningitis in mice**
N.C. Teske (Munich, Germany), H.W. Pfister, D. Van De Beek, U. Ködel, M.C. Brouwer*

P0398 **Clinical features and outcomes of tetanus with associated nosocomial infections: a retrospective analysis**
S. Kazmi (Karachi, Pakistan), Y. Faraz, F. Herekar*

P0399 **Epidemiology of Lyme neuroborreliosis in Scotland: data analysis from the Scottish Lyme disease and tick-borne infections reference laboratory**
C. Lim (Inverness, United Kingdom), E. Urquhart*

P0400 **Long-term outcomes after bacterial meningitis during infancy in Denmark and the Netherlands: national matched cohort study**
L. Snoek (Amsterdam, Netherlands), B.P. Gonçalves, E. Horváth-Puhó, M.N. Van Kassel, S.R. Procter, K.K. Søgaard, J. Chandna, A. Van Der Ende, D. Van De Beek, M.C. Brouwer, H.T. Sørensen, J.E. Lawn, M.W. Bijlsma*

PS015

2g. Zoonotic bacterial diseases (incl foodborne and waterborne pathogens and One Health aspects, excl AMR)

P0401 ***Streptococcus suis* infection: a retrospective cohort study in Thailand**
S. Pinsai (Prachinburi, Thailand), W. Eaimworawuthikul*

P0402 **Genomic evidence for colonisation by *Staphylococcus pseudintermedius* in healthy humans: an observational study**
K.L. Bellis (Cambridge, United Kingdom), D. Aggarwal, A. Van Tonder, S. Girgis, P. Naydenova, B. Blane, M. Walker, C. Perry, S. Kaptoge, S. Duthie, S. Burton, E. Johnson, M. Juhasz, C. Moore, J. Geoghegan, J. Parkhill, J. Danesh, S.J. Peacock, E.M. Harrison*

P0403 **A novel field deployable enrichment-free method for capture and detection of Shiga toxigenic *Escherichia coli* from water sources**
N. Cahill (Galway, Ireland), L. O' Connor, S. Biggins*, A. Chueiri, M.L. Farrell, B. Hooban, O. Higgins, G. Miliotis, L. Burke, M. Cormican, T.J. Smith, D. Morris*

P0404 **Leptospirosis: a retrospective review of hospitalisation in the Republic of Ireland over 56 months**
A. Mc Greal-Bellone (Dublin, Ireland), S. O' Regan, E. De Barra*

P0405 **Multidisciplinary management of suspected Lyme borrelioses: clinical features of 569 patients, and factors associated with recovery at 12 months, a prospective cohort study**
A. Raffetin (Villeneuve-Saint-Georges, France), J. Schemoul, A. Chahour, S. Nguala, P. Caraux-Paz, A. Belkacem, F. Medina, G. Paoletti, C. Fabre, S. Gallien, N. Vignier, Y. Madec*

P0406 **Highly virulent *Staphylococcus aureus* associated with bovine raw milk in Zambia as public health concern**
S. Schaarschmidt (Berlin, Germany), B.S.J. Phiri, B.M. Hang'ombe, S. Maurischat, H. Wichmann-Schauer, A. Fetsch*

P0407 **Neurofilament light in CSF is associated with neurological disability in Lyme neuroborreliosis**
H. Mens (Copenhagen, Denmark), L. Fjordside, R. Gynthersen, M. Thalund, A. Andersen, F. Sellebjerg, U. Andreasson, K. Blenow, H. Zetterberg, A.M. Lebech*

P0408 **Presence of Chlamydiales in Swiss ticks: high co-infection rate with tick-borne pathogens**
B. Marquis (Lausanne, Switzerland), V. Martin, R. Ackermann-Gäumann, R. Lienhard, M.L. Tritten, W. Tischhauser, G. Greub*

P0409 **Genomic analysis of the zoonotic potential of the ST73 lineage of avian and human extraintestinal pathogenic *Escherichia coli* (ExPEC)**
A. Becker S. Saidenberg (Copenhagen, Denmark), A. H. M. Van Vliet, M. Stegger, T.B. Johannesen, T. Semmler, A.C.D.O. Silveira, E. Kuroki Anzai, I.C.A. Scaletsky, A. Dalsgaard, R.M. La Ragione, T. Knöbl*

P0410 **Co-circulation of *Orientia*, *Anaplasma*, and *Leptospira* bacteria among febrile patients in southern Nepal**
M. Singh (Lalitpur, Nepal), A. Adhikari, A. Baral, P. Karki, B. Rayamajhee*

P0411 **Patient expectations and outcome in patients with early Lyme borreliosis**
D. Stupica (Ljubljana, Slovenia), A. Gomišček, M. Nahtigal Klevišar, M. Velušcek, N. Kejžar, S. Collinet-Adler*

P0412 **Prevalence and risk factors for scrub typhus in patients with acute febrile illness in a tertiary care centre in New Delhi**
B. Tarai (New Delhi, India), P. Sen, R. Kanaujia, J. Kaur, M. Biswal, P. Das*

P0413 **Automated high-throughput microscopy screen for *Listeria monocytogenes* factors required for intracellular infection**
R. Pombinho (Porto, Portugal), D. Meireles, A. Maia, S. Sousa, D. Cabanes*

P0414 ***Salmonella salamae* and *Salmonella* waycross from Lake Victoria's Nile perch imported into the European Union show limited human pathogenic potential**
Y.M.G. Hounmanou (Copenhagen, Denmark), Z. Baniga, V. García, A. Dalsgaard*

P0415 **Evaluation of microbial burden of grilled food and hommos from restaurants in Al-Ahsa region of Saudi Arabia**
A. Al-Hamad (Qatif, Saudi Arabia), I.H. Alshubaith, S. Abohelaika, S. Alhajri, A. Alhajri, R.A. Alsultan, M. Alghanem*

P0416 **CC5 MRSA isolates from goats and the farm environment in Saudi Arabia phylogenetically linked to isolates recovered from humans in clinical samples from the USA and Europe**
R. Cave (London, United Kingdom), W. El-Deeb, M. Fayez, N. Alhumam, S.A. Quadri, H. Mkrtchyan*

P0417 **Evidence of viable pathogenic leptospires in environmental samples from mainland Portugal: a public health risk?**
M. Fernandes (Lisbon, Portugal), T. Carreira, R. Teodósio, M.L. Vieira*

P0418 ***Staphylococcus pseudintermedius* recovered from human infectious diseases: a summary of cases**
L. Blondeau (Saskatoon, Canada), H. Deneer, J. Rubin, R. Kanthan, S. Sanche*

P0419 **Comparative genomics of Shiga toxin-producing *Escherichia coli* strains from patients with and without haemolytic uraemic syndrome**
A. Matussek (Oslo, Norway), X. Bai, T. Jahnukainen, S. Salmenlinna, J. Zhang, E. Ylinen, J. Halkilahti, H. Saxen*

P0420 **Diagnosis of bovine tuberculosis and first molecular typing of *Mycobacterium bovis* and *Mycobacterium caprae* isolates from farms with endemic bovine tuberculosis in Bulgaria**
V. Valcheva (Sofia, Bulgaria), T. Savova-Lalkovska, A. Dimitrova, M. Bonovska*

P0421 **Aetiology of infective gastroenterocolitis in the University Hospital of Split in 2020**
A. Novak (Split, Croatia), B. Tijardovic, I. Goic-Barisic, Z. Rubic, M. Tonkic*

P0422 **High prevalence of *Klebsiella pneumoniae* in European food products: a multi-centre study comparing culture and molecular detection methods**
S. Brisse (Paris, France), C. Rodrigues, K. Hauser, N. Cahill, M. Ligowska-Marzeta, G. Centorotola, A. Cornacchia, R. Garcia Fierro, M. Haenni, E. Møller Nielsen, P. Piveteau, E. Barbier, D. Morris, F. Pomilio*

P0423 **_Staphylococcus caprae_ infections in Osona, Barcelona: an emerging pathogen?**
M. Baldà (Vic, Spain), M. Navarro, A. Vilamala, J. Serra-Pladevall, M. Arias-Rivero, S. Montserrat, E. Reynaga, R. López-Martínez, J. Díez De Los Ríos*

P0424 **A meta-analysis of the burden of non-typhoidal *Salmonella* in humans in the Middle East and North Africa**
R. Al-Rifai (Al Ain, United Arab Emirates)*

P0425 **Systemic immune responses in patients with early *Borrelia afzelii* Lyme borreliosis**
D. Stupica (Ljubljana, Slovenia), K. Boršic, T. Cerar Kišek, S. Collinet-Adler, N. Kejžar*

P0426 **Non-specific symptoms and health-related quality of life in patients with early Lyme borreliosis**
D. Stupica (Ljubljana, Slovenia), A. Gomišcek, M. Nahtigal Klevišar, M. Velušcek, R. Blagus, S. Collinet-Adler*

PS016

2h. Other intracellular or rare bacteria

P0427 **Sequence-based differences of *Mycobacterium wolinskyi* clinical isolates**
A. Ghodousi (Milan, Italy), M. Omrani*

P0428 **Impact of an outbreak of listeriosis in pregnant women compared to sporadic cases in Andalusia, Spain**
R. Alvarez Marín (Seville, Spain), J.M. Lomas-Cabeza, J. Jiménez-López, G. Antiñolo, N. Lorusso, M.R. López-Márquez, E. Briones Pérez De La Blanca, A. Fernández De Simón Almela, A. Pérez-Milena, L. Martínez-Martínez, Á. Pascual, C. Infante, J.A. Lepe, L. Cerrillos, J.M. Cisneros*

P0429 **The potential use of thioridazine as an adjuvant to the treatment of multidrug-resistant infections**
D. Alves Ferreira (Dublin, Ireland), M. Martins*

P0430 ***Candidatus* Neoehrlichia mikurensis in Danish immunosuppressed patients: a retrospective cohort study**
R. Gynthersen (Copenhagen, Denmark), M.F. Hansen, L. Ocias, A. Kjær, K. Krogfelt, H. Mens, A.M. Lebech*

P0431 **New genotypes and diversity of *Orientia tsutsugamushi* isolated from scrub typhus patients in Korea as determined by multilocus sequence typing**
J.H. Hwang (Jeonju, Korea, Republic of), K.M. Chung, C.S. Lee*

P0432 **Evaluation of treatment regimens during sub-acute brucellosis**
M. Ben Jemaa (Sfax, Tunisia), F. Hammami, M. Koubaa, K. Rekik, F. Smaoui, I. Bougharriou, C. Marrakchi*

P0433 **The efficacy of solithromycin in a severe pneumonia model by *Klebsiella pneumoniae***
M. Somekawa (Toyama, Japan), S. Okamoto, Y. Yoshida, H. Yamada, Y. Morinaga*

P0434 **Prevalence and genetic diversity of *Clostridium perfringens* isolates in hospitalised diarrhoea patients from central China**
Q. Ma (Zhengzhou, China), B. Wang, Y. Yuan, Y. Li*

P0435 **Whole genome sequencing to assess similarities between an epidemiologically linked pair of clinical and soil isolates of *Burkholderia pseudomallei***
S. Raj (Puducherry, India), S. Sistla*

P0436 **25 years epidemiology of *Nocardia* clinical infections in Gipuzkoa, Spain**
M. Ercibengoa (San Sebastián, Spain), M. Alonso, N. Azcue, G. Cilla, D. Vicente, P. Idigoras, J.M. Marimón*

P0437 **Invasive *Aggregatibacter* species infections in a London teaching hospital over a 4-year period: a case series of 27 patients**
A. Bapat (London, United Kingdom), O. Lucey, M. Eckersley, S. Ranasinghe, J. Lambourne*

Poster presentation time for **3. Bacterial susceptibility & resistance**
Sunday, 24.04.2022 12:00 - 13:00

PS017

3a. Resistance surveillance & epidemiology: MRSA, VRE & other Gram-positives

P0438 **Multiple emergence of linezolid-resistant *Staphylococcus epidermidis* in Poland**
M. Tomczak (Warsaw, Poland), A. Mroczkowska, M. Orczykowska-Kotyna, M. Urbas, D. Zabicka, A. Skoczynska, J. Empel*

P0439 **Characterisation of *Staphylococcus aureus* implicated in diabetic foot infections in a Tunisian hospital, with detection of MSSA CC398-t571**
C. Torres (Logroño, Spain), A. Arfaoui, R. Fernández-Fernández, R. Ben Sallem, P. Eguizabal, I.N. Abdullahi, N. Sayem, S. Ben Khelifa Melk, N. Klibi*

P0440 **Temporal dynamic of oxacillin-resistant *Staphylococcus aureus* (ORSA) recovered from bloodstream infections (BSI) in a Brazilian tertiary hospital during a 13-year period**
F. O. Bessa-Neto (Diadema, Brazil), M. F. C. Balera, I.N. M. Santos, M. F. Franchikoski, A.C. C. Pignatari, A.C. Gales, R. Cayô*

P0441 **Changing epidemiology of vancomycin-resistant enterococci in Finland, 2009-2020**
L. Lindholm (Helsinki, Finland), J. Jalava, S. Salmenlinna, O. Lyytikäinen*

P0442 **Changes in pneumococcal serotypes and antibiotic resistance during the 13-valent conjugate vaccine era in Italy**
R. Camilli (Rome, Italy), M. Del Grosso, M. Monaco, F. D' Ambrosio, G. Errico, S. Giancristofaro, M. Pagnotta, M. Giufrè, R. Urciuoli, S. Boros, S. Bellino, A. Pantosti*

P0443 **Genomic epidemiology of prevalent Russian hospital-acquired methicillin-resistant *Staphylococcus aureus* ST8 clone**
V. Gostev (Saint Petersburg, Russian Federation), P. Pavlova, O. Sulian, P. Chulkova, O. Kalinogorskaya, L. Danilov, I. Ageevets, S. Sidorenko*

P0444 **Sequencing of all initial patient isolates of vancomycin-resistant *Enterococcus faecium* (VREfm) from 2020 shows alarming emergence of the new strain ST1299/CT1903/vanA**
A. Rath (Regensburg, Germany), B. Kieninger, J. Fritsch, A. Caplunik-Pratsch, N. Mirzaliyeva, T. Holzmann, W. Schneider-Brachert*

P0445 **Trends of methicillin-resistant *S. aureus* and vancomycin-resistant *Enterococcus* in Spain, 2012-21**
M. Cantero Caballero (Madrid, Spain), L.M. Parra Ramírez, Á. Asensio Vegas, A.G. Bianco Fernández, R.M. Orti Bordas, I. Salcedo Leal*

P0446 **Investigating the evolution of integrative and conjugative elements (ICEs) carrying antimicrobial resistance (AMR) genes in group B *Streptococcus* (GBS)**
J.A. Rodgus (London, United Kingdom), P. Mitsidis, M. Getino, O.B. Spiller, N. Croucher, E. Jauneikaite*

P0447 **Emergence of vancomycin-resistant *Enterococcus faecium* in a tertiary hospital in Madrid, Spain**
B. González-Blanco (Madrid, Spain), R. Recio, P. Brañas, A. Reyes, J. Villa, M.Á. Orellana, E. Viedma*

P0448 **Mandatory notification of panton-valentine leukocidin (PVL)-positive methicillin-resistant *Staphylococcus aureus* (MRSA) in Saxony, Germany: analysis of cases from the city of Leipzig in 2019**
F. Layer-Nicolaou (Wernigerode, Germany), U. Helbig, G. Werner, N. Kriebel*

P0449 **Rapid screening of *norA* alleles among *Staphylococcus aureus* strains causing SSTIs in different hosts**
C. Ferreira (Lisbon, Portugal), S. Santos Costa, P. Abrantes, M. Viveiros, I. Couto*

P0450 **Genotyping of vancomycin-resistant *Enterococcus faecium* isolated from blood culture in haematological patients**
G. Klyasova (Moscow, Russian Federation), S. Khrulnova, A. Fedorova, I. Frolova, B. Biderman*

P0451 **An evaluation of a commercial PCR assay for the genotypic confirmation of methicillin-resistant *Staphylococcus aureus* using stored blood culture isolates**
R. Griessel (Polokwane, South Africa), V. Tshisevhe, K. Masemola*

P0452 **An ecological study of faecal colonisation in long-term hospitalised ICU patients in Spain revealed dominance of ST2 among methicillin-resistant *S. epidermidis* isolates**
S. García-Cobos (Madrid, Spain), A. Navarro Riaza, C. Soriano, M. García-Godes, J. Montufar Ramirez, D. Gijón Cordero, R. Cantón, J.E. Cañada-García, V. Bautista, N. Lara, B. Aracil, J. Oteo-Iglesias, M. Pérez-Vázquez*

P0453 **Molecular characterisation of vancomycin-resistant *Enterococcus faecium* isolated in a university hospital in Bulgaria**
P. Hristova (Pleven, Bulgaria), V. Nankov, I. Stoikov, I. Ivanov, H. Hitkova*

P0454 **Molecular characterisation of epidemiological and clinical *Staphylococcus pseudintermedius* in Spain**
C. Torres (Logroño, Spain), L. Ruiz-Ripa, C. Aspiroz, R. Fernández-Fernández, C.A. Alonso, M.L. Monforte, J.M. Azcona-Gutiérrez, A. Rezusta, C. Lozano*

P0455 **Ventilator-associated pneumonia due to MRSA vs MSSA: what should guide empiric therapy?**
M. Colaneri (Pavia, Italy), D.C. Domenico, A. Alessandro, C. Marta, P. Greta, C. Patrizia, M. Alba, B. Claudio, M. Francesco, A.D.I.M. Angela, B. Raffaele*

P0456 **Linezolid resistance in *Enterococcus faecium* associated with ICU acquired infection: resistance mechanisms, virulence, and clonal relatedness**
M. Fernández-Torres (Vitoria-Gasteiz, Spain), R. Alonso-Monsalve, I. Martinez-Malaxetxebarria, A. Aguirre-Quiñonero, M.C. Lecároz-Agara, M. Almela-Ferrer, H. Barrasa-González, L. Urrutia-Angulo, A. Canut-Blasco*

P0457 **Carriage of methicillin-resistant *Staphylococcus aureus* among refugees, asylum seekers and undocumented migrants**
T. Aro (Helsinki, Finland), A. Kantele*

P0458 **High prevalence of toxigenic isolates among *Staphylococcus aureus* recovered from SSTI in paediatric patients in a Spanish hospital**
C. Torres (Logroño, Spain), A. Campaña-Burguet, L. Ruiz-Ripa, C. Lozano, I. Ferrer, J.M. García-Lechuz, I. Antoñanzas, P. Eguizabal, A. Rezusta*

P0459 **Antibiotic resistance in ocular pathogens: a six-year trend, Italy**
A. Piazza (Pavia, Italy), A. Abualsha'ar, A. Mercato, E. Nucleo, M. Corbella, P. Cambieri, C. Mauri, E. Meroni, S.G. Rimoldi*

P0460 **Macrolide resistance among invasive *Streptococcus pneumoniae* isolates in Croatia in fifteen year period, from 2005 to 2019**
I. Butic (Zagreb, Croatia), M. Guzvinec, M. Jelic, S. Lucic, I. Gros, A. Tambic Andrasevic*

P0461 **Characterisation of group A streptococcal isolates of invasive origin from Sri Lanka**
V. Liyanapathirana (Kandy, Sri Lanka), M. Weerasekara, G. Vidanapathirana, C. Li, A. Tennegedara, R. Dissanayake, A. Ekanayake, M. Abeykoon, M. Kothalawala, M. Ip*

P0462 **Hiding in plain sight: *Staphylococcus pettenkoferi*-positive blood cultures at a large public hospital in the United States**
E. Barletta (Los Angeles, United States), P. Petersen*

P0463 **Characterising the anaerobic organisms unidentified by a commercial blood culture nucleic acid test**
K. Tan (Loma Linda, United States), C. Mcleod, K. Nguyen, A. Zhou, J. Abdul-Mutakabbir*

P0464 **Trends in *Staphylococcus aureus* and *Enterococcus* spp. antimicrobial susceptibility and infection in 2019-2020 in a Spanish region**
N. Tormo-Palop (Valencia, Spain), E.M. González-Barberá, J. Colomina-Rodríguez, A. Sánchez-Bautista, B. Gomila-Sard, M.V. Domínguez-Márquez, M. Navarro-Cots, D. Navarro-Ortega, C. Gimeno-Cardona*

P0465 **To screen or not to screen medical students for intestinal carriage of multidrug-resistant pathogens and nasal carriage of methicillin-resistant *Staphylococcus aureus*?**
E. Smelikova (Prague, Czech Republic), M. Brajerova, O. Nyc, P. Drevinek, J. Tkadlec, M. Krutova*

P0466 **High-resolution genotyping to assist AMR-One Health monitoring: identification of MDR *Enterococcus faecium* strains and *pbp5* genetic platforms in different sources and countries**
A.R. Freitas (Porto, Portugal), A.P. Tedim, A.C. Almeida-Santos, B. Duarte, H. Elghaieb, M.S. Abbassi, A. Hassen, C. Novais, L. Peixe*

P0467 **An emerging PVL-positive CC5/ST5-MRSA-IVc clone associated with outbreaks in Irish healthcare facilities investigated by whole genome sequencing**
B. Aloba (Dublin, Ireland), G. Brennan, A. Blomfeldt, M.D. Bartels, S. Monecke, D. Coleman*

P0468 **Emergence of tetracycline- and erythromycin-co-resistant *Streptococcus pyogenes emm77* clones in the invasive infection in Spain**
P. Villalón (Majadahonda, Spain), M. Bárcena, G. Carrasco, M.J. Medina-Pascual, N. Garrido, S. Valdezate*

P0469 **Disease burden of healthcare-associated infections caused by antimicrobial resistant bacteria in intensive care units in Taiwan based on national data, 2008-2015**
S.T. Huang (Taipei, Taiwan, China), S.T. Guan, W.Y. Shau, S.X. Lai, Y.L. Tsai, Y.C. Chen, F.Y. Hsiao*

P0470 **Biofilm formation among staphylococcal nasal carriage isolates from healthy pharmacy students: friendly fire?**
A. Abouelfetouh (Alexandria, Egypt), A. Hamdy, M. Alseqely, E. Aboulmagd*

P0471 **Exploring the antibiotic resistance and genetic lineages of *Staphylococcus aureus* from cows, their handlers and their surroundings: a One Health perspective**
V. Silva (Vila Real, Portugal), S. Correia, J. Rocha, C. Manaia, J. García-Díez, J.E. Pereira, J.L. Capelo, G. Igrejas, P. Poeta*

P0472 **Epidemiology of antibiotic resistance in invasive non-beta-hemolytic streptococci, results from a 2021 French national survey**
A. Tazi (Paris, France), C. Plainvert, N. Dmytruk, M. Gaillard, A. Frigo, C. Poyart*

P0473 **One Health genomic surveillance of *Staphylococcus aureus* reveals distinct lineages in isolates from Miranda donkeys (*Equus asinus*) and their handlers**
V. Silva (Vila Real, Portugal), C. Alfarela, M. Caniça, V. Manageiro, M. Nóvoa, B. Leiva, M. Kress, J.L. Capelo, G. Igrejas, P. Poeta*

P0474 **Drivers of *Enterococcus faecium* infection in Portuguese hospitals: spread of major clonal lineages**
T. Conceição (Oeiras, Portugal), M. Ribeiro, L. Carvalho, C. Toscano, S. Matos, M. Pinto, Z. Videira, A.M. Almeida, L. Sancho, J. Melo-Cristino, M.A. Faustino, H. De Lencastre*

P0475 **Introduction of pneumococcal conjugate vaccines in Spain confirms the emergence of non-vaccine serotypes with antibiotic resistance: a national longitudinal study (2004-2020)**
J.Y. Yuste (Madrid, Spain), M. Llamosí, J. Sempere, C. Pérez-García, D. Lago, I. Del Río, B. López-Ruiz, M. Gimeno, P. Coronel*

P0476 **Determination of the frequency, antimicrobial resistance and genetic lineages of *Staphylococcus aureus* isolated from hunters and hunting dogs**
V. Silva (Vila Real, Portugal), M. Caniça, V. Manageiro, J. Ribeiro, L. Maltez, J.E. Pereira, J.L. Capelo, G. Igrejas, P. Poeta*

P0477 ***In vitro* surveillance of eravacycline against Gram-positive pathogens, including resistant isolates, collected worldwide during 2020.**
S. Hawser (Monthey, Switzerland), I. Morrissey, N. Kothari, F. Monti, S. Siegert, T. Hodges*

P0478 **Emerging methicillin-resistance undetected by reference methods due to a loss of function of the GdpP protein in growth deficient staphylococci strains lacking *mec* gene**
G. Durand (La Balme Les Grottes, France), C. Dupieux Charbert, B. Fruiquière, C. Fulchiron, L. Munoz, S. Rivat, A.G. Ranc, F. Vandenesch, F. Laurent, A. Tristan, P. Martins-Simoes*

P0479 **Linezolid and glycopeptide-resistant *Enterococcus faecium* outbreak in an intensive care unit during SARS-CoV-2 pandemic**
N. Tormo-Palop (Valencia, Spain), I. Vidal-Catalá, L. Diab-Casares, J. Moreno-Sánchez, J. Giménez-Pascual, R. Olmos-Arenas, N. Orta-Mira, D. Navalpotro-Rodríguez, C. Gimeno-Cardona*

P0480 **Antimicrobial susceptibility testing of dalbavancin in a collection of Staphylococci coagulase-negative isolates resistant to daptomycin, linezolid, and/or glycopeptides: comparison of gradient strips and broth microdilution**
S. VeLasco De La Fuente (Santander, Spain), J. Rodríguez-Lozano, D. Pablo-Marcos, M. Fernández-Martínez, M. Siller, J. Calvo*

P0481 **Temporal trends in skin and soft tissue infections caused by methicillin-resistant *Staphylococcus aureus* in Lambaréné, Gabon**
F. Schaumburg (Münster, Germany), C.S. Gouleu, M. Daouda, T. Grebe, V. Rudolf, O. Bingono, A.A. Adegnika, M. Mccall, A.S. Alabi*

P0482 **Genotypic and phenotypic antimicrobial resistance profiles of *Staphylococcus haemolyticus* and *Staphylococcus epidermidis* from German dairy farms with a history of MRSA-detection**
T. Lienen (Berlin, Germany), A. Schnitt, J.A. Hammerl, S. Maurischat, B.A. Tenhagen*

P0483 **Sensitivity of *Mycobacterium avium* complex in the basic health zone of Lleida (Spain) over a period of six years**
S. Mormeneo Bayo (Lleida, Spain), I. Prats, E. López, A. Bellés Bellés, R.M. García, A. Bernet, J. Aramburu, M. García*

P0484 **Changes in MRSA genotypes frequency in a Czech tertiary care hospital, 2018-2021**
J. Tkadlec (Prague, Czech Republic), M. Brajerova, E. Smelikova, O. Nyc, P. Drevinek*

P0485 **Quinupristin-dalfopristin susceptibility of bloodstream *Enterococcus faecium* isolates from nine hospitals in Korea: use of two susceptibility testing methods and different interpretive criteria**
H.J. Lim (Gwangju, Korea, Republic of), S.A. Byun, C.Y. Park, G.Y. Lee, M.J. Choi, E.J. Won, S.H. Jeong, J.H. Shin, Y.A. Kim, Y. Uh, S.H. Kim, J.H. Shin*

P0486 **Lefamulin activity against a contemporary global collection of *Staphylococcus aureus* (SENTRY 2020-2021)**
H.S. Sader (North Liberty, United States), S. Paukner, S.J.R. Arends, S.P. Gelone, R.E. Mendes*

P0487 **Lefamulin activity against bacterial pathogens typically causing pneumonia collected from European Medical Centres in 2020 and 2021**
H.S. Sader (North Liberty, United States), S.J.R. Arends, R.E. Mendes, S.P. Gelone, S. Paukner*

P0488 **Activity of extracts from novel natural product sources against clinically relevant human pathogens**
S. Hawser (Monthey, Switzerland), N. Kothari, G.C. Varese, F. Spina, I. Perugini, M. Nobile, C. Portmann, S. Roth, V. Mutel*

P0489 **Impact of the strain expansion of the ATLAS surveillance programme on the perspective of resistance trends among key bacterial pathogens**
M. Hackel (Schaumburg, United States), S. Bouchillon, D. Sahm, M. Dowzicky*

P0490 **Genetic mechanisms of β-lactam resistance of *Streptococcus pneumoniae* strains isolated from children in Russia**
T. Komyagina (Moscow, Russian Federation), N. Alyabieva, A. Tryapochkina, A. Lazareva*

P0491 **VISA CA-MRSA transcriptomic adaptations emerging under teicoplanin therapy**
E. Aguglia (Catania, Italy), F. Loverde, R. Salemi, A. Zega, G. Pigola, M. Santagati, S. Stefani, V. Cafiso*

P0492 ***In vitro* susceptibility testing of tedizolid against rapidly growing non-tuberculous mycobacteria**
L. Herrera-Leon (Madrid, Spain), M. Marchante, R. Ramiro*

P0493 **Subtyping of methicillin-resistant *Staphylococcus aureus* clonal complex 22 strains in Kuwait hospitals**
E. Udo (Jabriya, Kuwait), S. Boswihi*

P0494 **Genotyping of methicillin-resistant *Staphylococcus aureus* belonging to clonal complex 8 (CC8-MRSA) in Kuwait Hospitals, 2016-2020**
E. Udo (Safat, Kuwait), S. Boswihi, T. Verghese, B. Mathew, B. Noronha*

P0495 **Vancomycin-resistant enterococci bacteraemia in an endemic region: clinical features and genomic analysis, a 12-year cohort**
Y. Wiener-W (Jerusalem, Israel), O. Abu-Labda, O. Murik, Y. Oster, M.V. Assous, T. Mann, D.A. Zeevi, S. Benensson*

P0496 ***In vitro* activity of exebacase against contemporary beta-haemolytic streptococci recovered from US patients with bloodstream infections**
J. Ambler (Yonkers, United States), L. Koeth, R. Schuch, R. Mendes, N. Gurung, J. Lindley*

P0497 **A multi-centre evaluation of trends in antimicrobial resistance among *Streptococcus pneumoniae* isolates in United States adults from 2011-2020**
S. Mohanty (Kenilworth, United States), K.D. Johnson, C. Harry, J. Watts, K. Yu, V. Gupta*

P0498 ***Streptococcus pneumoniae* antimicrobial non-susceptibility trends among children with pneumococcal disease in the United States, 2011–2020**
S. Mohanty (Kenilworth, United States), T. Hu, K. Feemster, C. Harry, J. Watts, K. Yu, V. Gupta*

P0499 **Oritavancin activity against Gram-positive isolates responsible for intra-abdominal infections in Europe and surrounding regions during 2015-2019**
C.G. Carvalhaes (North Liberty, United States), D. Shortridge, J.M. Streit, R.E. Mendes*

P0500 **Antimicrobial activity of dalbavancin and comparators against Gram-positive bacteria causing bacteraemia in patients with skin and skin structure infections (2017-2021)**
H.S. Sader (North Liberty, United States), M. Castanheira, C.G. Carvalhaes, L.R. Duncan, R.E. Mendes*

P0501 ***In vitro* activity of tedizolid against *Nocardia* spp. isolated in Japan**
M. Toyokawa (Fukushima, Japan), N. Ohana, D. Tanno, M. Imai, M. Honda, Y. Takano, K. Ohashi, T. Yamashita, K. Saito, H. Shimura*

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P0502 **Antimicrobial resistance in *Neisseria gonorrhoeae* isolates in the health area of HUiP La Fe, Valencia (Spain)**
A. Sellés-Sánchez (Valencia, Spain), J.M. Sahuquillo-Arce, M. Rubio-López, M.J. Castaño-Aroca, B. Acosta-Boga, J.L. López-Hontangas*

P0503 **Temporal analysis of antimicrobial resistance of *Neisseria gonorrhoeae* in a Spanish city**
P. Galicia (Madrid, Spain), M. Linares, C. García Bertolin, K. Sidak, L. Seijas Pereda, F. Pérez García, R. González Palacios, T. Arroyo, R. Pérez Tanoira, A. González Sarria, P. Gómez Herruz, J. Cuadros*

P0504 **Hypervirulent colistin resistant *Klebsiella pneumoniae*: rising superbugs among endemic nosocomial clones**
C. Shankar (Vellore, India), S. Srinivasan, S. Shanmugam, A. Manesh, B.L. Yesudhason, B. Veeraraghavan*

P0505 **Investigation of the antimicrobial resistance profile of uropathogenic *Escherichia coli* ST131 in urinary tract infections in children**
M. Rasoulinasab (Tehran, Iran, Islamic Republic of), F. Shahcheragh, M.M. Feizabadi, B. Nikmanesh, A. Hajihasani, M.M. Aslani*

P0506 **Correlation between antibiotic resistance in *Pseudomonas æruginosa* and antibiotic consumption in an intensive care burn department in Tunisia**
H. Naija (Tunis, Tunisia), S. Frigui, S. Dhraief, I. Harzallah, A.A. Messadi, L. Thabet*

P0507 **Prevalence and antimicrobial resistance pattern of microorganisms recovered from bloodstream infection and its correlation with healthcare-associated infection in pre-COVID-19 and COVID-19 period**
J. Monteiro (São Paulo, Brazil), F. Inoue, A.P. Lobo, T. Carniatto, P.H. Dantas, D. Feriani, A. Ibanes, A. Pereira, E. Vasconcelos, E. Silva, C. Abboud*

P0508 **Microbial epidemiology and clinical risk factors of CPE among patients in the mid-west of Ireland from 2009 to 2020**
N. O Connell (Limerick, Ireland), S. Gasior, J. Powell, C. Dunne*

P0509 **Genetic and phenotypic characterisation of the novel sequence type 4523 from *Klebsiella pneumoniae***
W. Yu (Beijing, China), P. Jia, X. Jia, Q. Yang*

P0510 **Frequency of β-lactamases encoding genes in Gram-negative bacilli (GNB) recovered from leafy vegetables and meat in the five Brazilian geographic regions**
F.O. Bessa-Neto (São Paulo, Brazil), T.B. Valiatti, R. Veiga, R.F.B. Neves, F.F. Santos, R.G. Brandão, M.F.C. Balera, M.F. Franchikoski, A.C.D.O. Silveira, C.D.O. Souza, D. Cassu-Corsi, D.M. Brasiliense, D.D.S.C.M. Castelo-Branco, E.K. Anzai, G.M.D.M. Guedes, F.D.O.S. Sobral, N.F. Romão, G.H.D.A. Souza, L.F. Ferraz, M.D.N.M. Bahia, M.S.M. Vaz, S. Simionatto, W.A.P. Monteiro, W.A.D.O. Lima, C.R.V. Kiffer, A.C. Gales, R. Cayô*

P0511 **Diabetic foot complicated by osteomyelitis: prevalence of the microorganisms and antimicrobial susceptibility at an Italian tertiary care centre**
G. Orlando (Modena, Italy), A. Bedini, M. Maurantonio, F. Marra, M. Sarti, M. Meschiari, E. Franceschini, G. Franceschi, M. Menozzi, C.M. Mussini*

P0512 **Cefiderocol antimicrobial susceptibility against multidrug-resistant Gram-negative bacilli in an Austrian tertiary care hospital**
K. Meierhoff (Vienna, Austria), K. Spettel, C. Honsig, P. Ringl, R. Kriz, D. Bumberger, B. Willinger*

P0513 **Increased prevalence of carbapenemase-producing Enterobacterales in a network of tertiary care hospitals during COVID-19 pandemic in Chile**
L.M. Rivas (Santiago, Chile), J.R. Martínez, A. Peters, A. Khan, M. Lam, P. Rojas, A. Cerda, L. Porte, C. Varela, M.L. Rioseco, F. Silva, M. Cifuentes, M.P. Acuña, L. Castillo, P. Valenzuela, M. Muhlhauser, V. Illesca, G. Rivera, J. Moreno, P. Herrera, A. Maripani, M. Pinto, R. Ocampo, P. Suazo, P. García, J.M. Munita*

P0514 **Molecular epidemiology, resistome and virulome of KPC-3 producing *Klebsiella quasipneumoniae* and *Klebsiella variicola* from a tertiary university hospital centre, Portugal**
G. Mendes (Lisbon, Portugal), J. Ramalho, A. Bruschy-Fonseca, L. Lito, A. Duarte, J. Melo-Cristino, C. Caneiras*

P0515 **Genomic survey on the emergency of ST93 clinical *Klebsiella aerogenes* isolates from a Portuguese hospital centre**
G. Mendes (Lisbon, Portugal), J. Ramalho, A. Bruschy-Fonseca, L. Lito, A. Duarte, J. Melo-Cristino, C. Caneiras*

P0564 **First outbreak of ST11 NDM-1-producing *Klebsiella pneumoniae* in Portugal**
G. Mendes (Lisbon, Portugal), J. Ramalho, A. Duarte, A. Pedrosa, A.C. Silva, L. Mendez, C. Caneiras*

P0517 **Whole genome sequencing enables molecular characterisation of multidrug-resistant non-clonal group 258 high-risk *Klebsiella pneumoniae* clones from a tertiary university hospital centre in Portugal**
G. Mendes (Lisbon, Portugal), J. Ramalho, A. Bruschy-Fonseca, L. Lito, A. Duarte, J. Melo-Cristino, C. Caneiras*

P0566 **Evaluation of minimal inhibitory concentration of commonly used biocides in human *Enterobacterales* isolates**
K. Ogrin (Ljubljana, Slovenia), D. Ribaric, J. Germ, M. Pirs*

P0519 **Rectal colonisation by carbapenemase-producing ST307 *K. pneumoniae* isolates in the community setting in Gauteng, South Africa**
K.T. Salvador-Oke (Pretoria, South Africa), J. Pitout, G. Peirano, K. Strydom, C. Kingsburgh, M. Kock, M. Ehlers*

P0520 **Multiple events of colistin resistance emergence in epidemic carbapenem-resistant *Klebsiella pneumoniae* (CR-KP) clonal types circulating in Portugal**
N.A. Faria (Oeiras, Portugal), T. Touret, A.S. Simões, M. Pinto, J. Melo-Cristino, M. Ramirez, J.A. Carriço, C. Toscano, E. Gonçalves, A.S. Bispo, C. Palos, P. Pereira, A.B. Correia, L. Gonçalves, A. Costa, M. Araújo, A. Duarte, H. De Lencastre, M. Serrano, R. Sá-Leão, M. Miragaia*

P0521 **High incidence of extended-spectrum β-lactamases and carbapenemases among *Klebsiella sp.* causing invasive infections in humans**
M. Loiodice (Porto, Portugal), T. Ribeiro, L. Peixe, L.M. Silva, M.H. Ramos, A. Novais*

P0522 **Multiclonal dissemination of multidrug-resistant and hypervirulent *Klebsiella pneumoniae* strains in Moscow and Saint Petersburg hospitals**
P. Chulkova (Saint Petersburg, Russian Federation), V. Ageevets, I. Ageevets, M. Dyachkova, A. Matsvay, V. Shapovalova, Y. Savochkina, O. Sulian, I. Tsvetkova, G. Shipulin, S. Sidorenko*

P0523 **A genome wide perspective on the diversity of colistin resistance-associated genes and the correlation with colistin resistance in *Klebsiella pneumoniae***
R. Elias (Lisbon, Portugal), A. Spadar, J. Phelan, J. Melo-Cristino, L. Lito, M. Pinto, L. Gonçalves, S. Campino, T. Clark, A. Duarte, J. Perdigão*

P0524 **VIM/IMP-type metallo-β-lactamase (MBL)-producing *Enterobacter* spp. in Poland, 2006-2019**
M. Biedrzycka (Warsaw, Poland), R. Izdebski, P. Urbanowicz, D. Zabicka, E. Literacka, M. Gniadkowski*

P0525 **Whole genome analysis of carbapenemase-producing *Escherichia coli* from intestinal carriage in elderly people, Italy**
M. Tinelli (Milan, Italy), M. Giufrè, G. Errico, M. Monaco, M. Del Grosso, R. Camilli, A. Pantosti, M. Cerquetti, M. Pagnotta, S. Giancristofaro, M. Marra, M. Carollo, A. Rossini, E. Fogato, E. Cesana, F. Gentiloni Silverj, D. Zabzuni*

P0526 ***Klebsiella pneumoniae* KPC isolates resistant to ceftazidime/avibactam: a retrospective analysis at Policlinico Tor Vergata, Rome, Italy**
L. Campogiani (Rome, Italy), P. Vitale, M. Iannetta, A. Lodi, M. Compagno, L. Coppola, E. Teti, M. Andreoni, L. Sarmati*

P0527 **Antimicrobial susceptibility of *Neisseria gonorrhoeae* in Barcelona from 2013 to 2020**
P. Salmerón Menendez (Barcelona, Spain), Y. Hoyos-Mallecot, B. Viñado, M. Montero-Martínez, M. Hernández-Casino, M. Alberny, M.J. Barberá, T. Pumarola, J. Serra-Pladevall*

P0528 **Trends of third-generation cephalosporins and carbapenem-resistant *Enterobacteriaceae* in Spain, 2012-21**
M. Cantero Caballero (Madrid, Spain), Á. Asensio Vegas, L.M. Parra Ramírez, E. Jiménez Tejero, R.M. Orti Bordas, I. Salcedo Leal*

P0529 **Polymyxin-carbapenem-resistant *Klebsiella pneumoniae* causing untreatable infections evidenced by synergy tests and correlated with bacterial genomes: complete outbreak report**
M. Zenaide Ribeiro Gomes (Rio De Janeiro, Brazil), E. Martins De Lima, C.A. Martins Aires, P. Silva Pereira, J. Yim, F. Henrique Silva, C.A. Santos Rodrigues, T. Rachel Tavares Oliveira, P. Pinho Da Silva, C. Monteiro Eller, M. Marçal Castro, L. Silva De Sousa, M. Lopes Secundo Dias, C.M. Rocha De Souza, A.P. D'alincourt Carvalho-Assef, M. J. Rybak, R. Mattos Albano, A. Basílio De Miranda, E. Silva Machado Filho, M.P. Catanho De Souza*

P0530 **Molecular characterisation of Enterobacterales producing extended spectrum beta-lactamases and carbapenemases isolated from three Lebanese hospitals**
D. Daaboul (Le Kremlin-Bicêtre, France), S. Oueslati, F. Dabboussi, M. Osman, T. Naas*

P0531 **Genomic and phylogenetic analyses of multidrug-resistant *Pseudomona aeruginosa* isolates from a persistent nosocomial outbreak**
Y. Wan (London, United Kingdom), Z. Payne, J. Turton, J. Martin*

P0532 **Occurrence of biocide and metal tolerance in antibiotic resistant *Klebsiella* species isolated from inpatients of university hospital**
A.L.D.C. Darini (Ribeirão Preto, Brazil), N.C. Moreira, N. Abichabki, J.C. Ferreira, R. Martinez, L.N. Andrade*

P0533 **Clonal diversity and distribution of virulence genes in metallo-β-lactamase-producing *Pseudomonas aeruginosa* isolated from blood culture in patients with haematological malignancies**
G. Klyasova (Moscow, Russian Federation), S. Khrulnova, A. Federova, I. Frolova, E. Likold*

P0534 **A core-genome multilocus sequence typing of *Acinetobacter baumannii* isolated from pre- COVID-19 and COVID-19 period**
J. Kabic (Belgrade, Serbia), B. Lukovic, B. Jovcic, B. Filipic, D. Kekic, M. Jovicevic, L. Ranin, N. Opavski, I. Dimkic, I. Gajic*

P0535 **Epidemiology and antimicrobial susceptibility of enteric bacteria in Finland 2018-2021**
M. Gunell (Turku, Finland), T. Orpana, T. Kallonen, P. Huovinen, A.J. Hakanen*

P0536 ***Neisseria gonorrhoeae*: antibiotic susceptibility profile over the last five years in a tertiary hospital in Zaragoza, Spain**
L.E. Franco Fobe (Zaragoza, Spain), G. Martin-Saco, J.M. García-Lechuz Moya, O. Algara Robles, A. Tristancho Baro, S. Nabal Diaz, V. Frutos Millan, S. Sanz Sanz, N. Burillo Navarrete, A. Milagro Beamonte, A. Rezusta Lopez*

P0537 **Genomic epidemiology of MBL-producing non-*aeruginosa Pseudomonas* isolates in Poland**
P. Urbanowicz (Warsaw, Poland), R. Izdebski, M. Biedrzycka, E. Literacka, M. Gniadkowski*

P0538 **Analysis of VIM-2 producing *Pseudomonas aeruginosa* isolates in Germany**
J. Eisfeld (Bochum, Germany), J. Schauer, J.B. Hans, N. Pfennigwerth, S.G. Gatermann*

P0539 ***Escherichia coli* from bloodstream infections belong to a wide range of MLST types and are not closely related genetically**
K.L. Nielsen (Copenhagen, Denmark), F.B. Hertz, N. Frimodt-Møller, S. Häussler*

P0540 **Molecular characterisation of multidrug-resistant *Acinetobacter baumannii* strains isolated in Turkish university hospital**
S. Nigiz (Ankara, Turkey), G. Hazirolan, C. Koçak Ozkul*

P0541 **Emergence of carbapenem-resistant *Klebsiella pneumoniae* in a tertiary teaching hospital in Ghana**
F. Ofosu Appiah (Accra, Ghana), J. Mohammed, A. Opoku-Ware, A. Ablordey, N.A. Amissah*

P0542 **Whole genome sequencing based prevalence of rectal carriage of extended spectrum beta-lactamase producing Enterobacterales in a large Dutch teaching hospital from 2013 to 2021: a point prevalence study**
K.M.G. Houkes (Breda, Netherlands), V. Weterings, S.D. Pas, W. Van Den Bijllaardt, M.A.G.M. Tinga, M.M.L. Van Rijen, I. Willemsen, C.J.M.M. Verhulst, A. Vrolijk, J.J. Verweij, J.L. Murk, J.A.J.W. Kluytmans, J.J.J.M. Stohr*

P0543 **Activity of cefiderocol compared to other antimicrobials against metallo-carbapenemase-producing non-fermenting Gram-negative bacilli collection from Spain**
I. Portillo-Calderón (Seville, Spain), M. Delgado-Valverde, Á. Pascual*

P0544 **Antimicrobial susceptibility in a primary hospital in Cameroon: setting limitations enhances a multidrug-resistance problem**
G. Rivas (Madrid, Spain), P. Hernández-Jiménez, F. Yonta, M. Simo-Mokam, V. Nankeng, N. Sopze, J. Nguefack, M. Nkemkeng, M. Linares*

P0545 **Molecular epidemiology of carbapenem-resistant *Acinetobacter baumannii* in the burns unit of a tertiary teaching hospital in Ghana**
J. Mohammed (Accra, Ghana), F. Ofosu Appiah, A. Opoku-Ware, A. Ablordey, N.A. Amissah*

P0546 **Emergence of a high-risk ST307 KPC-producing *Klebsiella pneumoniae* clone armed with dual drug-resistant plasmids and yersiniabactin-encoding ICE*Kp***
K. Park (Seoul, Korea, Republic of), Y.S. Jeong, H. Sung, M.N. Kim*

P0547 **Novel multi-resistant IncC plasmid carrying *bla*$_{\text{OXA-181}}$ identified in two different *E. coli* strains isolated from the same human patient**
J.E. Fernandez (Bern, Switzerland), A. Egli, H. Seth-Smith, A. Endimiani, V. Perreten*

P0548 **Prevalence of mutations within RamAR operon associated with cross-resistance phenotype among ESBL *Enterobacteriaceae* isolated in intensive care unit**
B. Langlois (Caen, France), A. Michel, S. Le Hello, F. Gravey*

P0549 **Effect of baicalein and ciprofloxacin on biofilm formation and mature biofilm of multidrug-resistant *E. coli***
R. El-Mahdy (Mansoura, Egypt), E. Hammad, R. Mahmoud, R. Shrief*

P0550 ***In vitro* activity of ceftaroline, ceftazidime-avibactam, and comparators against Gram-positive and -negative organisms in China: the 2018 results from the ATLAS programme**
P. Jia (Beijing, China), Q. Yang, Y. Zhu, H. Zhang, P. Guo, Y. Xu*

P0551 **Antimicrobial susceptibility of *Vibrio parahaemolyticus* strains isolated from estuaries on the Atlantic coast of Cádiz**
S. Tapia-Poza (Cádiz, Spain), R. Navais, M. Rodriguez-Iglesias*

P0552 **Within-patient *bla*OXA-48-bearing IncM1 plasmid dissemination among three Enterobacterales species**
D. Andrey (Geneva, Switzerland), R. Sierra, M. Roch, G. Renzi, A. Cherkaoui, J. Schrenzel, N. Vuilleumier*

P0553 **Prevalence and analysis of CRISPR/Cas systems in clinical *Pseudomonas aeruginosa* from Greece**
P. Efi (Larissa, Greece), L. Gkagkaletsios, C. Papagiannitsis*

P0554 **Ceftazidime-avibactam susceptibility patterns of carbapenem-resistant *Klebsiella pneumoniae* and *Pseudomonas aeruginosa* clinical strains in tertiary care educational hospital in Turkey**
O.R. Sipahi (Izmir, Turkey), A. Noyan, F. Cilli, S. Aydemir*

P0555 **United Arab Emirates surveillance system for antimicrobial resistance**
J. Thomsen (Abu Dhabi, United Arab Emirates), N. Abdulrazzaq, C. Moubareck*

P0556 **Cefiderocol susceptibility against molecularly characterised carbapenemase-producing Enterobacterales in North America and Europe between 2014 and 2019: SIDERO-WT-2014–2019 studies**
M. Takemura (Osaka, Japan), H. Yamashiro, M. Wise, M. Hackel, D.F. Sahm, R. Echols, Y. Yamano*

P0557 **Mortality risk factors in carbapenem-resistant Gram-negative bacterial infections**
O. Azap (Ankara, Turkey), T. Yanik Yalçin, B. Gonulal, H. Arslan*

P0558 **Antimicrobial susceptibility to ceftolozane/tazobactam and comparators among *Pseudomonas aeruginosa* isolates collected from patients in hospitals in western Europe: SMART 2018-2020**
S. Hawser (Monthey, Switzerland), S. Lob, N. Kothari, F. Siddiqui, B. Akrich, A. Deryke, K. Young, M. Motyl, D. Sahm*

P0559 **Presence of antibiotic-resistant *Escherichia coli* and *Vibrio* spp. in faeces of wild birds of periurban wetlands in Peru**
M.J. Pons Casellas (Lima, Peru), K. Espinoza, X. Caffo, J. Hernandez, F.E. Guibert Chipoco, J. Ruiz*

P0560 **Multidrug resistance *Enterobacteriaceae* isolates from hospitalised patients at a tertiary level hospital located in the highlands of Peru**
N. Morante (Lima, Peru), J. Acosta, M. Eguiluz, S. Santivañez, C. Kong, J. Quispe-Pari*

P0561 **Evaluation of the agreement and predictive performance of carbapenem-resistant Enterobacterales risk prediction models in hospitalised patients**
H. Sy (New York, United States), C. Plazola, A. Yassin, K. Huang, M. Patel, L. Loaiza, S. Acquah, S. Radparvar, C. Stavropoulos, J. Mathew, A. Farkas*

P0562 **Affiliation of ACT, MIR and CMH β-lactamases clarifies *Enterobacter* taxonomy and dispersion of these enzymes**
A.B. Gonçalves (Porto, Portugal), T.G. Ribeiro, Â. Novais, L. Peixe*

P0563 **Antimicrobial susceptibility patterns of anaerobic bacteria at an Irish university hospital over a ten-year period**
S. Ali (Dublin, Ireland), F. Dennehy, O. Donoghue, S. Mc Nicholas*

P0564 **Antimicrobial susceptibility and sequence typing of *Neisseria gonorrhoeae* in a tertiary hospital in Spain**
M.R. Almela-Ferrer (Bilbao, Spain), E. Montoya-Azpeitia, M.C. Nieto-Toboso, L. Hernández-Ragpa, M.J. Urrutikoetxea-Gutiérrez, J.Á. Álava-Menica, M.M. Cámara-Pérez, J. López De Munain, J.L. Díaz De Tuesta Del Arco, J. Muñoz-Sánchez, M. Basaras-Ibarzábal, R. Cisterna-Cancér*

P0565 **Temocillin MICs in Enterobacterales with different antibiotic resistance patterns**
A. Anders (Bochum, Germany), A. Goer, S. Gatermann*

P0566 **NDM-positive *Escherichia coli* in central Greece**
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P0567 **Molecular characterisation of two outbreaks of carbapenem-resistant *Acinetobacter baumannii* harbouring bla$_{OXA-24/40}$ in a tertiary hospital in northern Spain**
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P0568 **Biofilm production and drug susceptibility of infrequent non-fermenting Gram-negative (*Achromobacter*, *Burkholderia*, and *Stenotrophomonas*) species obtained in a third-level hospital in Mexico**
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P0569 **Activity of imipenem/relebactam against meropenem-non-susceptible clinical Enterobacterales and *Pseudomonas aeruginosa* isolates from different regions: SMART 2020**
K. Young (Kenilworth, United States), D. Hilbert, A.D.C. Deryke, F. Siddiqui, M. Wong, D. Sahm, M. Motyl*

P0570 **Microbiological characterisation of clinical isolates in paediatric appendicitis during an antimicrobial stewardship programme in a tertiary hospital in Madrid, Spain**
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P0571 **Six new KPC variants encoding ceftazidime-avibactam resistance in *Klebsiella pneumoniae***
A. Valério De Lima (São Paulo, Brazil), K. De Oliveira Lima, D.A. Da Costa Rocha, P. Cappellano, M. Duarte Alves, N. Erbert Lincopan Huenuman, M.L. Do Nascimento Moura, M. Salaroli De Oliveira, A. Prehn Zavascki, J.L. Mello Sampaio*

P0572 **Susceptibility profile variation of Gram-negative bacteria in the ICU of a large hospital before and during the pandemic**
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P0573 **Spanish national study *Acinetobacter* spp. 2020: antimicrobial susceptibility and molecular epidemiology**
P. Guijarro-Sánchez (A Coruña, Spain), C. Lasarte-Monterrubio, J.C. Vázquez-Ucha, J. Arca-Suárez, L. Álvarez-Fraga, G. Bou, A. Beceiro*

P0574 **Whole genome sequencing (WGS) analysis of *Escherichia coli* causing healthcare-associated bacteraemia of urinary origin in Spain (ITUBRAS-2 project)**
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P0575 **Evaluation of the *in vitro* activity of ceftazidime-avibactam against carbapenem-resistant *Pseudomonas aeruginosa* isolates in Peru**
J. Ruiz Blazquez (Lima, Peru), G. Salvador, Y. Ramos, C. Zapata, M. Pinedo, A. Baca, J. Rojas, V. Llontop, R. Vicuña, C. Garcia, F. Krapp, M. Riveros*

P0576 **Pivmecillinam: an alternative option for non-complicated urinary tract infections treatment caused by Enterobacterales**
M. Felgueiras (Matosinhos, Portugal), V. Alves*

P0577 **Aztreonam-avibactam susceptibility testing for carbapenemase-producing Enterobacterales (CPE) in the National Reference Laboratory (NRL): 2019-2021 surveillance results**
F. Pasteran (Caba, Argentina), P. Ceriana, C. Lucero, A. Menocal, E. Albornoz, M. Chavez, M. Echegorry, A. Corso*

P0578 **Effects of COVID-19 on antibiotic prescribing, healthcare utilisation, and microbiological testing and *E.coli* resistance**
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P0579 **Cefiderocol susceptibility against molecularly characterised carbapenemase-producing *Acinetobacter baumannii* complex in North America and Europe between 2014 and 2019: SIDERO-WT-2014–2019 studies**
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P0580 **Screening of surface and groundwater in Lombardy, Italy: detection and characterisation of ESβLs- and carbapenemases-producing Enterobacterales**
A. Mercato (Pavia, Italy), A. Abualsha'ar, A. Piazza, F. Marchesini, M. Spalla, E. Nucleo, F. Zara, G. Pilla, R. Migliavacca*

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P0582 **Antibiotic resistance evolution of *Acinetobacter baumannii* over the last 20 years in Spain**
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P0583 **First report of a plasmid-encoded bla$_{IMP-8}$ metallo-beta-lactamase in an *Acinetobacter guillouiae* clinical isolate**
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P0584 **Molecular and epidemiological characteristics of carbapenemase-producing *Enterobacteriaceae* clinical isolates in Nara, Japan**
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P0585 **Molecular characterisation of extended-spectrum beta-lactamase (esbl) producing uropathogens among patients with urinary tract infections in aminu kano teaching hospital, Kano, northwestern Nigeria**
U. Umar (Kaduna, Nigeria), F. Giwa, A. Ibrahim, A. Idris*

P0586 **Antimicrobial epidemiology of *Enterobacter* spp., from bloodstream infections in neonatal intensive care units**
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P0587 ***Neisseria gonorrhoeae* antibiotic resistance and multiantigen sequence types diversity in Lleida (Spain)**
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P0588 **porB - variations and evidence of horizontal gene transfer in *Neisseria* spp: a global phylogenetic analysis of 20,047 isolates**
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P0589 **Can furazidine be equated with nitrofurantoin? - evaluation of *Escherichia coli* susceptiblitiy**
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P0590 **Characterisation of carbapenem-resistant *Enterobacteriaceae* isolates from hospital setting of Djibouti**
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P0591 ***In vitro* activities and inoculum effects of cefiderocol, ceftazidime-avibactam, and aztreonam-avibactam against carbapenemase-producing *Enterobacteriaceae***
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P0592 **Impact of antibiotic resistance on the outcome of hospitalised patients: eight years' experience of a tertiary centre in northern Italy**
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P0593 **Epidemiology of *Citrobacter* spp. producing OXA-48-like carbapenemases in Germany**
J. Sommer (Frankfurt Am Main, Germany), H. Reiter, J. Sattler, M. Tietgen, A. Hamprecht, S. Göttig*

P0594 **Molecular characterisation of carbapenemase-producing Enterobacterales in nosocomial and community-acquired clinical isolates in Bogota, Colombia**
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P0596 ***In vitro* antibacterial activity of cefiderocol against a multi-national collection of *Stenotrophomonas maltophilia* and *Burkholderia* spp.: SIDERO-WT-2014–2019**
S. Nguyen (Florham Park, United States), C. Slover, M. Hackel, D. Sahm, R. Echols, M. Takemura, Y. Yamano*

P0597 **Prevalence of carbapenemases and antimicrobial activity of aztreonam-avibactam and comparator agents among a global collection of *Enterobacterales***
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P0598 **Integron structure and plasmid diversity in clinical VIM-1 carbapenemase producing *Enterobacter hormaechei* isolates in Germany**
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P0599 **Comparative *in-vitro* activity of cefiderocol and four newer β-lactam/β-lactamase inhibitor combinations against two panels of clinically important Gram-negative pathogens from Germany**
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P0600 **Prevalence of CTX-M-type ESBLs among *Escherichia coli* causing urinary tract infections in the Bolivian Chaco**
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P0601 **Detection of F33:A-:B-plasmids among *Escherichia coli* isolates from children living in a rural community of the Bolivian Chaco**
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P0602 ***In Vitro* activity of aztreonam-avibactam and comparator agents against Enterobacterales isolates collected as part of the ATLAS global surveillance programme, 2016–2020**
K. Kazmierczak (Schaumburg, United States), F. Arhin, D. Sahm*

P0603 **Activity of ceftolozane/tazobactam against Enterobacterales and *P. aeruginosa* isolates from Argentina, Brazil, Chile, and Mexico before and during the COVID-19 pandemic: SMART 2018-2020**
M. Hackel (Schaumburg, United States), S. Lob, F. Siddiqui, J. Pavia, A. Deryke, K. Young, M. Motyl, D. Sahm, L.D. Sanchez, J.L. Vallejo, G. Bugarin*

P0604 **Detection of ESBL and carbapenemase genes in different water sites in Marseille, France: *Enterobacteriaceae* harbouring CTX-M, TEM, SHV, NDM, OXA-48, and KPC genes**
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P0605 ***In vitro* activity of cefiderocol, a novel siderophore cephalosporin, against difficult-to-treat resistance Gram-negative bacterial pathogens from the multi-national sentinel surveillance study: SIDERO-WT (2014–2019)**
C. Longshaw (London, United Kingdom), A.S. Henriksen, M. Takemura, Y. Yamano*

P0606 **Description of antibiotic resistance in Bonobos from the Democratic Republic of Congo: a whole genome sequencing study**
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P0607 **Natural competence of *Acinetobacter baumannii* is reduced when motility is inhibited**
K. Lucassen (Cologne, Germany), K. Xanthopoulou, H. Seifert, P.G. Higgins*

P0608 **Inter-genera dissemination of an OXA-48-like encoding IncL plasmid within the same patient**
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P0609 **Antibiotic use and resistance trends in United States veterans affairs medical centres, 2011-2020**
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P0610 **First report of *mcr*-8 and *mcr*-9 detection in the Irish environment**
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P0611 **Evaluation of risk factors for the development of carbapenem resistance among Gram-negative bacilli**
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P0612 **New Delhi metallo-β-lactamase (NDM) plasmid heterogeneity among carbapenemase-producing *Escherichia coli* and *Klebsiella pneumoniae* in the Netherlands from 2014-2019**
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P0613 **Resistance mechanisms to cefepime in the presence of novel β-lactamase inhibitors zidebactam, taniborbactam and enmetazobactam in a Spanish nationwide collection of carbapenemase-producing Enterobacterales**
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P0614 **Susceptibility of Gram-negative pathogens to eravacycline collected during 2020 from the USA, Europe and Asia/Pacific**
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P0615 **Activity of aztreonam in combination with novel β-lactamase inhibitors against metallo-β-lactamase-producing Enterobacterales**
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P0616 **Improvement of antimicrobial resistance patterns of urinary isolates in the out-of-hospital setting following decreased community use of antibiotics during COVID-19 pandemic**
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P0617 **Report of the national reference centre for multidrug-resistant Gram-negative bacteria on carbapenemases in Germany in 2021**
N. Pfennigwerth (Bochum, Germany), J. Schauer, J. Eisfeld, J.B. Hans, A. Agnes, S.G. Gatermann*

P0618 **Rapidly increased incidence of NDM carbapenemases in the time of COVID-19 in the Czech Republic**
K. Chudejova (Pilsen, Czech Republic), K. Vlkova, V. Heringova, I. Bitar, J. Hrabak*

P0619 **Detection of intrahospital dissemination routes and molecular characterisation of carbapenem-resistant *K.pneumoniae* through genomic surveillance**
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P0620 **Detection of alternative degradation products, beta-lactons, formed by OXA-48-like carbapenemases**
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P0621 **High prevalence of heteroresistance phenomenon in clinical isolates of *Klebsiella pneumoniae***
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P0622 **Trends in antimicrobial resistance and antimicrobial consumption before and during the first year of the COVID-19 pandemic among inpatients in a tertiary hospital in the Philippines: a descriptive study**
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P0623 ***In vitro* activity of ceftaroline and comparator agents against bacterial pathogens frequently isolated from patients with respiratory tract, skin and soft tissue, and bloodstream infections collected in emerging market countries during the ATLAS global surveillance programme in 2018-2020**
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P0624 ***In vitro* activity of aztreonam-avibactam and comparator agents against metallo-β-lactamase-producing Enterobacterales and *Pseudomonas aeruginosa* isolates collected in emerging market countries during the ATLAS global surveillance programme in 2019-2020**
K. Kazmierczak (Schaumburg, United States), M. Estabrook, T. Mather, F. Arhin, A. Quintana, S. Kamat, D. Sahm*

P0674 ***In vitro* activity of ceftazidime-avibactam and comparator agents against Enterobacterales from ICU and non-ICU wards, by infection source, collected in emerging market countries during the ATLAS global surveillance programme in 2018-2020**
K. Kazmierczak (Schaumburg, United States), S. Lob, T. Mather, G. Stone, A. Quintana, S. Kamat, D. Sahm*

P0626 **Epidemiology and *in vitro* activity of ceftazidime-avibactam and comparators against all and multidrug-resistant isolates of Enterobacterales, *Pseudomonas aeruginosa* and *Acinetobacter baumannii* collected from adult patients in Latin America, ATLAS 2015-2020**
K. Kazmierczak (Schaumburg, United States), S. Lob, G. Stone, M.C. Pein, E. Lemos, D. Sahm*

P0627 **Epidemiology and *in vitro* activity of ceftazidime-avibactam and comparators against all and multidrug-resistant isolates of Enterobacterales, *Pseudomonas aeruginosa* and *Acinetobacter baumannii* collected from paediatric patients in Latin America, ATLAS 2015-2020**
K. Kazmierczak (Schaumburg, United States), S. Lob, G. Stone, M.C. Pein, E. Lemos, D. Sahm*

P0628 ***In vitro* activities of ceftazidime-avibactam and comparator agents against Enterobacterales isolates stratified by region, ATLAS global surveillance programme 2016-2020**
K. Kazmierczak (Schaumburg, United States), M. Estabrook, G. Stone, D. Sahm*

P0629 ***In vitro* activities of ceftazidime-avibactam and comparator agents against Enterobacterales isolates producing OXA-48-like enzymes, ATLAS global surveillance programme 2016-2020**
M. Wise (Schaumburg, United States), M. Estabrook, K. Kazierczak, G. Stone, D. Sahm*

P0630 ***In vitro* activity of ceftazidime-avibactam (CAZ-AVI) and comparators against *Pseudomonas aeruginosa* (*Paer*) collected worldwide stratified by infection source, ATLAS global surveillance programme, 2016-2020**
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P0631 ***In vitro* activity of ceftibuten in combination with VNRX-5236 against clinical isolates of Enterobacterales collected in 2018-2020**
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P0632 ***In vitro* activity of cefepime-taniborbactam against molecularly characterised Enterobacterales and *P. aeruginosa* collected worldwide from 2018-2020**
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P0633 **Antimicrobial activity of cefepime in combination with taniborbactam against resistant clinical isolates of Enterobacterales from 2018-2020 global surveillance**
M. Hackel (Schaumburg, United States), M. Wise, D. Sahm*

P0634 **Antimicrobial susceptibility to ceftolozane/tazobactam, imipenem/relebactam and comparators among Gram-negative isolates collected from ICU patients in Latin America, SMART 2016-2020**
M. Hackel (Schaumburg, United States), S. Lob, F. Siddiqui, J. Pavia, A. Deryke, K. Young, M. Motyl, D. Sahm*

P0635 **Relationship between receipt of prior antibiotics and presence of antibiotic resistance among adult outpatients with complicated urinary tract infections**
T. Lodise (Albany, United States), R. Wei, L. Chen, R. Contreras, T. Im, K. Bruxvoort, M. Rodriguez, L. Friedrich, J. Reese, S. Tartof*

P0636 ***Escherichia coli* bloodstream infection from local epidemiology to antimicrobial stewardship: a prospective study**
G. Tiecco (Brescia, Italy), B. Fumarola, E. Chiari, F. Castelnuovo, F. Castelli, D.A. Bertelli*

P0637 ***In vitro* activity of imipenem/relebactam against KPC-encoding Enterobacterales from six European countries in 2018-2020**
M. Wise (Schaumburg, United States), K. Young, D. Hilbert, M. Motyl, D. Sahm*

P0638 **Activity of ceftolozane/tazobactam and imipenem/relebactam against multidrug-resistant *Pseudomonas aeruginosa* isolates collected in western Europe: SMART 2017-2020**
S. Hawser (Monthey, Switzerland), S. Lob, N. Kothari, F. Siddiqui, B. Akrich, A. Deryke, K. Young, M. Motyl, D. Sahm*

P0639 ***In vitro* activity of cefiderocol and comparators against European, Gram-negative clinical isolates from the ARTEMIS surveillance study**
A.S. Henriksen (Jyllinge, Denmark), R. Canton, S. Gatermann, K. Jeannot, S. Stefani, D. Wareham, C. Longshaw*

P0640 **Analysis of the *in vitro* activity of ceftaroline and comparator agents against an international collection of *Kingella kingae* paediatric isolates recovered from carriers and patients with invasive infections**
J.S. Bradley (San Diego, United States), R.E. Mendes, J.M. Maher, H.K. Huynh, E.A. Porsch, J.W. St. Geme, P. Yagupsky*

P0641 **Bloodstream infections due to extended-spectrum β-lactamase-producing *Enterobacteriaceae* in a third level hospital in Spain**
F. Artigues (Palma, Spain), A. Cañabate, G. Mut, H.H. Vilchez, M.L. Martin, E. Ruiz De Gopegui, X. Mulet, A. Oliver, M. Riera*

P0642 **Activity of ceftolozane/tazobactam and comparators against *Pseudomonas aeruginosa* isolates collected from patients with respiratory tract infections at risk for drug-resistant pathogens: SMART Asia 2018-2020**
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P0692 **Susceptibility and cross-susceptibility of imipenem/relebactam and ceftolozane/tazobactam against Gram-negative isolates from South Korea and Taiwan: SMART 2018-2020**
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P0644 **Probability of simultaneous coverage of KPC-producing Enterobacterales and carbapenem-resistant *P. aeruginosa*: a comparison of imipenem/relebactam with other agents in South Korea and Taiwan: SMART 2017-2020**
M. Hackel (Schaumburg, United States), S. Lob, F. Siddiqui, W.T. Chen, A. Deryke, K. Young, M. Motyl, D. Sahm*

P0645 **Epidemiology of resistance to macrolide and fluoroquinolone in *Mycoplasma genitalium* in a French hospital**
N. Bourgeois-Nicolaos (Clamart, France), A. Pornin, M. Michel, K. Allouche, M. Bilan, C. Guillet-Caruba, F. Doucet-Populaire*

P0646 **Activity of ceftolozane/tazobactam and imipenem/relebactam against clinical Gram-negative isolates from Czech Republic, Hungary, and Poland: SMART 2017-2020**
S. Hawser (Monthey, Switzerland), S. Lob, N. Kothari, F. Siddiqui, I. Alekseeva, A. Deryke, K. Young, M. Motyl, D. Sahm*

P0647 **Antimicrobial susceptibility to ceftolozane/tazobactam and comparators among Gram-negative isolates collected from patients in Kenya: SMART 2017-2020**
M. Hackel (Schaumburg, United States), S. Lob, F. Siddiqui, I. Alekseeva, A. Deryke, K. Young, M. Motyl, D. Sahm*

P0648 **Resistome of multidrug-resistant *Acinetobacter baumannii* clinical isolates from Alexandria, Egypt**
S. Sanchez-Urtaza (Leioa, Spain), M. Hernández, M. El-Kholy, D. Abad, S. M. Shawky, I. Alkorta, A. Ocampo Sosa, L. Gallego*

P0649 **A longitudinal 9-year study of the molecular epidemiology of carbapenemase-producing Enterobacterales isolated from a regional hospital in Taiwan: predominance of carbapenemase KPC-2 and OXA-48**
C.Y. Kao (Taipei, Taiwan, China), Y.M. Tsai, L.L. Wen*

P0650 **Whole genome sequence-based characterisation of an extensively drug-resistant uropathogenic *Escherichia coli* EC1390**
P.Y. Kuo (Taipei, Taiwan, China), T.D.T. Tran, C.Y. Kao*

P0651 **Prospective study of *Helicobacter pylori* primary antibiotic resistance in Tunisia: phenotypic and genotypic analysis**
M. Zribi (Tunis, Tunisia), M. Karaa, R. Dabbeche, K. Khazzar, F. Turki, C. Bousbiaa, H. Battikh, M. Fekih, J. Boubaker*

P0652 **Exploring antimicrobial resistance to fluoroquinolones and aminoglycosides in *Escherichia coli* isolated from an urban river: implications and significance for public health**
S.S. Nambram (New Delhi, India), M. Kumar, J.S. Virdi*

P0653 **Spreading of carbapenem- and colistin-resistant *Klebsiella pneumoniae* in Tunisian intensive care units**
Z. Meriam (Tunis, Tunisia), M. Karaa, D. Amal, T. Yosr, B. Chiraz, T. Ahlem, T. Feryel, B. Hajer, A. Sami, B.L. Salah*

P0654 **Amino acid substitutions in penicillin-binding protein 3 and molecular epidemiology of carbapenem-resistant *Haemophilus influenzae* strains in the Czech Republic from 2010 to 2018**
L. Mališová (Prague, Czech Republic), V. Jakubu, K. Pomorská, M. Musílek, H. Žemlicková*

P0655 **Co-trimoxazole resistant *Stenotrophomonas maltophilia* producing VIM-4 carbapenemase**
A. Sonnevend (Pécs, Hungary), S. Melegh, R. Meszéna, P. Urbán, E. Rauth, A. Gyenesei, T. Pál*

P0656 **Association of *bla*KPC and *bla*NDM in ceftazidime/avibactam and imipenem/relebactam resistant Enterobacterales in Brazil**
F. Tuon (Curitiba, Brazil), L. Bail, C.A.S. Ito, L.N.V.S. Arend, K.D.S. Nogueira*

P0657 **Cefiderocol *in vitro* activity against molecularly characterised *Acinetobacter baumannii-calcoaceticus* complex and *Psuedomonas aeruginosa* clinical isolates causing infection in Europe and adjacent regions (2020)**
R.E. Mendes (North Liberty, United States), T.B. Doyle, V. Kantro, D. Shortridge, H.S. Sader, M. Castanheira*

P0658 **Comparison analysis of *in vitro* activity of cefiderocol and comparator agents against molecularly characterised carbapenem-resistant Enterobacterales clinical isolates causing infections in Europe and surrounding regions (2020)**
R.E. Mendes (North Liberty, United States), H. Kimbrough, T.B. Doyle, D. Shortridge, H.S. Sader, M. Castanheira*

P0659 **Endemicity of *Pseudomonas aeruginosa* producing IMP-18 and/or VIM-2 metallo-beta-lactamases from the high-risk clone ST111 in Central America**
M. Castanheira (North Liberty, United States), L.M. Deshpande, A.P. Davis, O. Aspelin, S. Vega, J.C. Tinoco*

P0660 **Activity of ceftolozane/tazobactam and imipenem/relebactam against clinical *Pseudomonas aeruginosa* isolates from Lebanon and Jordan: SMART 2017-2020**
M. Hackel (Schaumburg, United States), S. Lob, F. Siddiqui, I. Alekseeva, A. Deryke, K. Young, M. Motyl, D. Sahm*

P0661 **Antimicrobial susceptibility of organisms isolated from complicated urinary tract infections in European Medical Centres: results from the SENTRY antimicrobial surveillance programme (2019-2021)**
H.S. Sader (North Liberty, United States), C.G. Carvalhaes, M. Castanheira, R.E. Mendes, J.M. Streit, S.J.R. Arends*

P0662 ***In vitro* activity of sulbactam-durlobactam against *Acinetobacter baumannii-calcoaceticus* complex isolates from a five-year surveillance programme (2016 –2020)**
M. Hackel (Schaumburg, United States), S. Mcleod, A. Miller, D. Sahm*

P0663 **Activity of cefiderocol and comparators against US isolates of *Pseudomonas aeruginosa, Acinetobacter baumannii-calcoaceticus* species complex, and *Stenotrophomonas maltophilia,* including carbapenem-resistant isolates from the SENTRY antimicrobial surveillance programme (2020-2021)**
D. Shortridge (North Liberty, United States), J.M. Streit, R.E. Mendes, M. Castanheira*

P0664 **Activity of cefiderocol and comparators against US Enterobacterales, including carbapenem-resistant isolates from the SENTRY antimicrobial surveillance program (2020-2021)**
D. Shortridge (North Liberty, United States), J.M. Streit, R.E. Mendes, M. Castanheira*

P0665 ***In vitro*** **activity of ceftibuten-avibactam against Enterobacterales from the ATLAS surveillance programme**
M. Hackel (Schaumburg, United States), G. Stone, D. Sahm*

P0666 **Activity of cefiderocol and comparators against European isolates of *Pseudomonas aeruginosa*, *Acinetobacter baumanni-calcoaeticus* species complex, and *Stenotrophomonas maltophilia* from the SENTRY antimicrobial surveillance programme (2020-2021)**
D. Shortridge (North Liberty, United States), J.M. Streit, R.E. Mendes, M. Castanheira*

P0667 ***In vitro*** **activities of ceftaroline and comparator agents against bacterial pathogens collected from patients with skin and soft tissue infections in Europe: a regional analysis of results from the ATLAS surveillance programme 2016-2020**
M. Hackel (Schaumburg, United States), G. Stone, D. Sahm*

P0668 **European regional analysis of the *in vitro* activities of ceftaroline and comparator agents against bacterial pathogens frequently isolated from patients with community-acquired respiratory tract infections: ATLAS surveillance programme 2016-2020**
M. Hackel (Schaumburg, United States), G. Stone, D. Sahm*

P0669 **Activity of cefiderocol and comparators against European Enterobacterales, including carbapenem-resistant isolates from the SENTRY antimicrobial surveillance programme (2020-2021)**
D. Shortridge (North Liberty, United States), J.M. Streit, R.E. Mendes, M. Castanheira*

P0670 ***In vitro*** **activities of aztreonam-avibactam and comparator agents against carbapenemase-producing Enterobacterales collected during the ATLAS global surveillance programme, 2015-2020**
K. Kazmierczak (Schaumburg, United States), M. Estabrook, F. Arhin, D. Sahm*

P0671 ***In vitro*** **activity of aztreonam-avibactam and comparator agents against multidrug-resistant Enterobacterales collected globally as part of the ATLAS surveillance programme, 2016-2020**
K. Kazmierczak (Schaumburg, United States), F. Arhin, G. Stone, D. Sahm*

P0672 ***In vitro*** **activity of aztreonam-avibactam and comparator agents against Enterobacterales from patients with intra-abdominal infections collected during the ATLAS global surveillance programme, 2016-2020**
K. Kazmierczak (Schaumburg, United States), S. Lob, F. Arhin, D. Sahm*

P0673 **Epidemiology of *Escherichia coli* surveillance isolates causing urinary tract infections in Europe and *in vitro* activity of gepotidacin (2019-2020)**
R.E. Mendes (North Liberty, United States), S.J.R. Arends, J.H. Kimbrough, D.I. Butler, N.E. Scangarella-Oman, M. Castanheira*

P0674 ***In vitro*** **activity of gepotidacin and comparators against a collection of *E. coli* and *S. saprophyticus* urine isolates collected worldwide during 2019-2021**
R.E. Mendes (North Liberty, United States), S.J.R. Arends, D.I. Butler, N.E. Scangarella-Oman, M. Castanheira*

P0675 ***In vitro*** **activities of aztreonam-avibactam and comparator agents against metallo-β-lactamase-producing Enterobacterales collected during the ATLAS global surveillance program, 2016-2020**
M. Wise (Schaumburg, United States), M. Estabrook, F. Arhin, D. Sahm*

P0676 **Implication of different replicons in the spread of the VIM-1-encoding integron, In110 in Enterobacterales from Czech hospitals**
I. Bitar (Pilsen, Czech Republic), M. Finianos, V. Mattioni Marchetti, L. Kraftova, K. Chudejova, C. Papagiannitsis, J. Hrabak*

P0677 ***In vitro*** **activity of ceftazidime-avibactam (CAZ-AVI) and comparators against *Pseudomonas aeruginosa* (*Paer*) collected worldwide stratified by patient age, ATLAS global surveillance programme, 2016-2020**
M. Wise (Schaumburg, United States), G. Stone, D. Sahm*

P0678 **OXA-48 and *mcr-9* carrying *Enterobacter cloacae* complex isolates causing bloodstream infections in Spain**
J. Fernández (Oviedo, Spain), P. Lumbreras-Iglesias, X. Vázquez, M. De Toro, M.R. Rodicio*

P0679 **Carbapenem resistance trends among isolates of *Pseudomonas aeruginosa* causing hospital-acquired infections in intensive care unit**
I. Petrovic (Kragujevac, Serbia), Z. Djordjevic, L. Bezarevic, M. Folic, S. Jankovic*

P0680 **Carriage of antibiotic-resistant bacteria in maternal and neonatal gut: the *mcr* story**
S. Basu (Kolkata, India), S. Naha, P. Basak, K. Sands, S. Mukherjee, B. Saha, P. Chattopadhyay, P.S. Chakravorty, R.K. Nandy, S. Dutta, T.R. Walsh*

P0681 **Comparative genomic analysis of clinical and wastewater isolates of extended-spectrum β-lactamase- and carbapenemase-producing Enterobacterales from a tertiary care hospital in northeast Japan**
H. Kanamori (Sendai, Japan), T. Sekizuka, H. Baba, K. Tokuda, Y. Takei, M. Katsumi, M. Nishiyama, T. Watanabe, M. Kuroda*

P0682 ***In vitro*** **susceptibility testing of eravacycline and omadacycline against isolates of extended-spectrum-beta-lactamase (ESBL) *Salmonella* bloodstream infections**
W. Goravey (Doha, Qatar), M. A Sid Ahmed, G. A Ali, E. B. Ibrahim, A. Abu Elhassan Mustafa, A. A Sultan, M. A. Al Maslamani, H. Abdel Hadi*

P0683 **Molecular insight of fosfomycin-resistance in carbapenemases-producing Enterobacterales in the Czech Republic**
V. Mattioni Marchetti (Pilsen, Czech Republic), M. Finianos, L. Kraftova, J. Hrabak, I. Bitar*

P0684 **Multidrug-resistance to oral antibiotics among *Escherichia coli* urine isolates from patients at outpatient departments in Germany and *in vitro* activity of nitroxoline, Germany, 2010-2019**
M. Kresken (Cologne, Germany), E. Wohlfarth, Y. Pfeifer, G. Werner*

P0685 **Resistance to mecillinam and nine other antibiotics for oral use in *Escherichia coli* isolated from urine specimens of primary care patients in Germany, 2019/2020**
M. Kresken (Cologne, Germany), Y. Pfeifer, F. Wagenlehner, G. Werner, E. Wohlfarth*

P0686 ***In vitro* activity of gepotidacin against urine isolates of *Escherichia coli* from outpatient departments in Germany**
M. Kresken (Cologne, Germany), E. Wohlfarth, C. Weikel, D. Butler, Y. Pfeifer, G. Werner*

P0687 ***In vitro* activity of cefoperazone/sulbactam and eravacycline against XDR and PDR *Acinetobacter baumannii* clinical isolates from a tertiary hospital in Greece**
A. Kassomenaki (Thessaloniki, Greece), G. Meletis, E. Protonotariou, I. Gkeka, P. Mantzana, A. Tychala, N. Vlachodimou, O. Vasilaki, G. Kagkalou, M. Kachrimanidou, L. Skoura*

P0688 **Activity of tebipenem against *Escherichia coli* collected from urinary tract infections in Europe in 2020**
I. Critchley (Cambridge, United States), N. Cotroneo, M. Pucci, R. Mendes*

P0689 ***In vitro* imipenem/relebactam and comparators susceptibility of Enterobacterales isolates recovered from ICU patients with UTIs, IAIs and LRTIs in Portugal and Spain: STEP and SUPERIOR studies**
M. García-Castillo (Madrid, Spain), M. Hernández-García, J. Melo-Cristino, M.F. Pinto, E. Gonçalves, V. Alves, A.R. Vieira, E. Ramalheira, L. Sancho, J. Diogo, R. Ferreira, H. Ramos, C. Chaves, G. Bou, E. Cercenado, M. Delgado-Valverde, X. Mulet, C. Pitart, J. Rodríguez-Lozano, N. Tormo, J. Duarte, L. Pássaro, J. Díaz-Regañón, R. Cantón*

P0690 **Activity of meropenem-vaborbactam and comparators against European carbapenem-resistant Enterobacterales isolates producing KPC carbapenemase (2018-2020)**
D. Shortridge (North Liberty, United States), L.M. Deshpande, J.M. Streit, M. Castanheira*

P0691 **Rectal carriage of multi-resistant *Enterobacteriaceae* among the general population in an area with a high density of pig farming**
J. Díez De Los Ríos (Vic, Spain), N. Blanco-Hernández, M. Baldà, M. Blázquez-Fraile, M. Navarro-Aguirre, A. Vilamala-Bastarras, J. Serra-Pladevall, E. Puigoriol, N. Parraga-Niño, S. Quero, R. López-Martínez, Ó. Mascaró, E. Reynaga*

P0692 **Antimicrobial activity of aztreonam-avibactam and comparator agents against ceftazidime-avibactam-resistant Enterobacterales (2019-2021)**
H.S. Sader (North Liberty, United States), C.G. Carvalhaes, S.J.R. Arends, R.E. Mendes, M. Castanheira*

P0693 **Antimicrobial susceptibility of Enterobacterales causing infections in intensive care unit patients: the role of new beta-lactamase inhibitor combinations**
H.S. Sader (North Liberty, United States), C.G. Carvalhaes, D. Shortridge, L.R. Duncan, M. Castanheira*

P0694 **Prevalence and resistance profiles in plasmid-mediated AmpC-producing *Enterobacteriaceae***
S. Mormeneo Bayo (Lleida, Spain), A. Bellés Bellés, E. López, I. Prats, A. Bernet, J. Aramburu, M. García*

P0695 **Bloodstream infections in Europe: aetiology and antimicrobial susceptibility results from the SENTRY antimicrobial surveillance program (2019-2021)**
H.S. Sader (North Liberty, United States), C.G. Carvalhaes, L.R. Duncan, D. Shortridge, M.D. Huband, R.E. Mendes, M. Castanheira*

P0696 ***Acinetobacter baumannii* strains isolated from patients with COVID-19 infection: susceptibility to antibiotic combinations**
I. Stoma (Gomel, Belarus), E. Karpova, D. Tapalski*

P0697 **Comparative activity of newer β-lactam/β-lactamase inhibitor combinations against *Pseudomonas aeruginosa* from patients in intensive care units of United States (US) medical centres in 2021**
H.S. Sader (North Liberty, United States), S.J.R. Arends, J.M. Streit, M.D. Huband, M. Castanheira*

P0698 **Activity of mecillinam towards carbapenem-resistant Enterobacterales**
C. Emeraud (Le Kremlin-Bicêtre, France), O. Vanparis, F. Mahamdi, E. Creton, T. Naas, R.A. Bonnin, L. Dortet*

P0699 **The recent molecular epidemiology of carbaepenamse-producing *Pseudomonas aeruginosa*: an emergence of NDM-1 producing *P. aeruginosa* sequence type 773 clone in Korea**
Y.A. Kim (Goyang, Korea, Republic of), Y.J. Choi, K. Junglim*

P0700 **Multidrug-resistant bacteria in COVID-19 hospital in Zagreb**
B. Bedenic (Zagreb, Croatia), V. Bratic, S. Mihaljevic, K. Reiner, A. Lukic, D. Bandic-Pavlovic, N. Beader, G. Zarfel, K. Vidovic, A. Grisold*

P0701 ***In vitro* evaluation of synergy in carbapenem-resistant *Klebsiella pneumoniae* strains with antimicrobial combinations of meropenem, fosfomycin, colistin and tigecycline**
Ö. Kandemir (Mersin, Turkey), Z. Öksüz, N. Delialioglu, D.C. Aslan, M.S. Serin*

P0702 ***In vitro* activity of imipenem/relebactam against *Pseudomonas aeruginosa* isolates recovered from ICU patients with UTIs, IAIs and LRTIs in Spain and Portugal (SUPERIOR and STEP studies)**
M. García-Castillo (Madrid, Spain), M. Hernández-García, G. Bou, E. Cercenado, M. Delgado-Valverde, X. Mulet, C. Pitart, J. Rodríguez-Lozano, N. Tormo, J. Melo-Cristino, M. F. Pinto, E. Goncalves, V. Alvez, A.R. Vieira, E. Ramalheira, L. Sancho, J. Diogo, R. Ferreira, H. Ramos, C. Chaves, M. Díaz-Regañón, J. Duarte, L. Pássaro, R. Cantón*

P0703 **The prevalence of carbapenemase-producing *Klebsiella pneumoniae* isolates in Ukraine**
H. Filonenko (Kyiv, Ukraine), L. Ishchenko, V. Ishchenko, V. Tsedyk, V. Korniyenko*

P0704 **Protective role of outer membrane vesicles *in vivo* carrying the New Delhi metallo-β-lactamase (NDM-1)**
A. Vila (Rosario, Argentina), L. Gonzalez, M. Martínez, P. Maffía, R. Bonomo*

P0705 **Examining the role of new antibiotics for carbapenem-resistant Enterobacterales (CRE) clinical isolates with varying genotypes in Singapore**
T.P. Lim (Singapore, Singapore), J.Q.M. Teo, H.Y. Chang, S.H. Tan, M.Y. Nurhayati, M. Hazim, N. Begam, C.Y. Tang, J.H. Sim, T.T. Tan, R.T. Ong, A.L. Kwa*

P0706 **The prevalence and effects of AmpC hyperexpression on ceftolozane/tazobactam (C/T) susceptibility in non-carbapenemase producing carbapenem-resistant *Pseudomonas aeruginosa* (NCP-CRPA)**
T.P. Lim (Singapore, Singapore), Y.S. Ngow, J.Q. Teo, H.T.H. Saw, L.J. Sin, Y. Zhong, J.H. Sim, T.T. Tan, A.L. Kwa*

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3c. Susceptibility testing methods (incl assay validation and comparative studies, excl TB)

P0707 **Testing three carbapenems in a novel *ex vivo* model of human tuberculosis**
X. Gonzalo (London, United Kingdom), M. Bielecka, L. Tezera, P. Elkington, F. Drobniewski*

P0708 **RAST benefits on the laboratory routine of a district hospital**
L. Albuquerque (Braga, Portugal), R. Afonso Conde, J. Neves, A. Faustino, A. Mesquita*

P0709 **Antibacterial activity of essential oil from *Origanum compactum* Benth. (Zaatar) against multidrug-resistant bacteria**
A. Azghar (Oujda, Morocco), M. Dalli, M. Tahri, A. Maleb*

P0710 **Proposal of an algorithm for the detection and phenotypic identification of carbapenemases using a commercial assay**
C. Fortes (Aveiro, Portugal), N. Kruptsala, P. Silva, R. Diaz, E. Ramalheira*

P0711 **Discrepancies investigation between anaerobes antimicrobial susceptibility testing of clinical isolates**
L. Mueller (Lausanne, Switzerland), G. Prod'hom, G. Greub, A. Croxatto*

P0712 **Delafloxacin susceptibility in clinical isolates of *Campylobacter jejuni* resistant to ciprofloxacin**
M. Rodríguez-Iglesias (Cádiz, Spain), C. Ibañez-Lopez, M.F. De La Rubia-Martín, P. Fernández-Palacios, F. Arroyo-Navarro, R. Vela-Fernández*

P0713 **Susceptibility of meropenem-resistant and/or carbapenemase-producing Gram-negative bacterial isolates to ceftazidime-avibactam and ceftolozane-tazobactam as assessed by three *in vitro* testing methods**
V. Cortazzo (Rome, Italy), B. Posteraro, G. Menchinelli, F.M. Liotti, F. De Maio, T. D'inzeo, B. Fiori, F. Luzzaro, M. Sanguinetti, T. Spanu*

P0714 **Ultra-high concentration of antibiotics inhibits multidrug-resistant bacterial growth in a novel *in-vitro* compartmentalised infection model**
S. Freiman (Hadera, Israel), M. Topaz, A. Athamna, I. Ashkenazi, T. Shoshani, A. Zbriger, S. Avadov, J. Peled, S. Agronov*

P0715 **QMAC-dRAST for Gram-negative bacilli antibiotic susceptibility testing directly from blood cultures: a comparative performance study with the MicroScan system**
E. Gallois (Créteil, France), V. Fihman, R. Le Guen, C. Gomart, M. Danjean, G. Royer, P.L. Woerther*

P0716 **Systematic interaction screening of ceftazidime/avibactam and colistin against eighteen carbapenem-producing *Escherichia coli* and *Klebsiella pneumoniae* strains**
R. Aubry (Poitiers, France), J. Buyck, S.G. Wicha, J.W. Decousser, P. Nordmann, W. Couet, N. Gregoire*

P0717 **Susceptibility of ampicillin-sulbactam and piperacillin-tazobactam in rapid antimicrobial susceptibility testing (RAST) from blood cultures for *E. coli***
A. Goer (Bochum, Germany), B. Sri Baskaran, S. Gatermann*

P0718 **Susceptibility of *Aerococcus urinae* and *Aerococcus sanguinicola* from urine specimens: a comparison of antibiotics with EUCAST-breakpoints to the repurposed drug nitroxoline**
A. Ahmadzada (Cologne, Germany), F. Fuchs, A. Hamprecht*

P0719 **Ciprofloxacin concentrations up to 100 times below the minimal inhibitory concentration select for *de novo* resistance in *Neisseria gonorrhoeae***
N. González (Antwerp, Belgium), S. Abdellati, J. Laumen, T. De Block, S. Manoharan-Basil, I. De Baetselier, C. Kenyon*

P0720 **A UK comparative study of susceptibility testing methods for *Neisseria meningitidis***
P. Burns (Hull, United Kingdom), L. Campbell, M. Wootton, X. Bai, J. Lucidarme, L. Walsh, R. Borrow*

P0721 **Candidate anaerobic bacteria for EUCAST disk diffusion antimicrobial susceptibility testing**
U.S. Justesen (Odense, Denmark)*

P0722 **Evaluation of gradient tests for MIC determination of six beta-lactam antibiotics in *Streptococcus pneumoniae* using a CCUG/EUCAST collection of *S. pneumoniae* with defined susceptibility**
A. Holmgren (Karlskrona, Sweden), F. Nilsson, E. Matuschek*

P0723 **Confirming synergistic effects of fosfomycin and flucloxacillin combination therapy against *S. aureus* isolates and evaluating *in vivo* efficacy in a Galleria mellonella model**
F. Bergmann (Vienna, Austria), A. Nussbaumer-Pröll, S. Eberl, M. Obermüller, M. Zeitlinger, M. Kussmann*

P0724 **High reproducibility and repeatability of a commercial rapid *Enterobacteriaceae* assay**
I.D. Nix (Bremen, Germany), M. Buhl, O. Drews, E.A. Idelevich, M. Kostrzewa, B. Oberheitmann, K. Sparbier, J. Steinmann, C. Walter, S. Zimmermann, K. Becker*

P0725 **Antimicrobial susceptibility testing of anaerobic bacteria: comparison of piperacillin-tazobactam gradient strips with gold standard agar dilution**
T. Morris (Cardiff, United Kingdom), S. Copsey-Mawer*

P0726 **Activity of cefiderocol compared to other antimicrobials against a metallo-beta-lactamase-producing Enterobacterales**
M. Delgado Valverde (Seville, Spain), I. Portillo Calderon, Á. Pascual*

P0727 **Assessment of cefiderocol susceptibility with two commercial manufacturers disks and broth microdilution in *Klebsiella pneumoniae* clinical isolates**
J.A. Castillo-Polo (Madrid, Spain), M. García-Castillo, C. Saralegui, M. Díez-Aguilar, M. Hernández-García, P. Ruiz-Garbajosa, R. Cantón, M.I. Morosini*

P0728 **Introduction of MIC strip in the clinical bacteriology lab automation workflow**
M. Lucchini (Brescia, Italy), L. Navarria, A. Giambra*

P0729 **Automatisation of EUCAST rapid AST directly from blood culture bottles procedure**
M. Lucchini (Brescia, Italy), L. Navarria, A. Giambra*

P0730 **Performance of a rapid phenotypic AST system for susceptibility testing of Gram-negative bacteraemia directly from positive blood culture bottles**
J. Göransson (Uppsala, Sweden), E. Ghaderi, M. Sundqvist, J.G. Lisby, J. Melin*

P0731 **Trends in the molecular epidemiology of carbapenem-resistant *Klebsiella pneumoniae* isolates in the intensive care units of a tertiary Greek hospital**
C. Zarras (Thessaloniki, Greece), S. Pappa, E. Vagdatli, T. Karampatakis, E. Iosifidis, E. Mouloudi, E. Roilides, A. Papa*

P0732 **Bacteriostatic and bactericidal activity of cefiderocol against clinical isolates of *Stenotrophomonas maltophilia***
C. Elías-López (Córdoba, Spain), M. Córdoba-Fernández, R. Tejero-García, L. Martínez-Martínez*

P0733 **Clinical evaluation of a commercial rapid AST system with Gram-negative bacteraemia samples in 6 hospitals in France and England**
M. Rottman (Garches, France), P. Rhodes, P. Singh, J.L. Herrmann, K. Jeannot, V. Cattoir, E. Carbonnelle, P. Plesiat, A. Williams, L. Dortet*

P0734 ***In vitro* susceptibility testing methods for ceftazidime-avibactam and aztreonam combination in metallo-β-lactamase-producing organisms: a novel combination in this antibiotic resistance era**
S. Kaur (Chandigarh, India), P. Sreenivasan, B. Sharma, M. Biswal, P. Ray, A. Angrup*

P0735 **Isolating novel bacteriophages targeting staphylococcal implant-associated infections for the treatment of antibiotic-resistant biofilm infections**
N. Burton (Coventry, United Kingdom), E. Vryonis, A. Sagona*

P0736 **Synergy testing by microdilution checkerboard and agar diffusion for aztreonam and ceftazidim and avibactam for 102 Enterobacterales harbouring a metallo-beta-lactamase as well as a second carbapenemase**
A. Anders (Bochum, Germany), J. Schauer, S. Gatermann*

P0737 ***In vitro* antimicrobial susceptibility of *Mycobacterium abscessus* and *Mycobacterium fortuitum* in Ecuador**
M.B. Solís (Quito, Ecuador), C. Gonzalez, A. Paz Y Miño, J. Zurita*

P0738 **Ceftazidime-avibactam/aztreonam synergism assay against carbapenem-resistant *Klebsiella pneumoniae* producing metallo-beta-lactamases**
D. Da Silva Nascimento (Salvador, Brazil), G.E. Oliveira Da Silva Calvacanti, J. Neves Reis Pedreira*

P0739 **A simple method for assessing aztreonam (AZT) in combination with ceftazidime / avibactam (CZA) for the treatment of carbapenem-resistant Enterobacterales infections**
B. Hack (London, United Kingdom), R. Rachman, E. Adobah, E. Ferran, J. Lambourne, D. Wareham*

P0740 **Antibiotic susceptibility testing at high-density inoculum: what stays beyond?**
M.V. Golikova (Moscow, Russian Federation), D.I. Yamalieva, E.N. Strukova*

P0741 **A fully automated disk diffusion test for fastidious bacteria antimicrobial susceptibility testing according to EUCAST instructions**
M. Paolucci (Reggio Emilia, Italy)*

P0742 ***In vitro* activity of antibiotic combination of ceftazidime-avibactam with aztreonam against 153 *Pseudomonas aeruginosa* strains with and without metallo-ß-lactamases from seven university hospitals in Germany**
E. Molitor (Bonn, Germany), G.T.R. Hischebeth, R. Stauf, M. Simon, J. Jantsch, J. Rödel, S.L. Becker, A. Halfmann, A. Serr, C. Hess, E. Siegel, A. Anders, J. Steinmann*

P0743 **Interaction screening of ceftazidime-avibactam and tigecycline against six clinical and nine isogenic *E. coli* and *K. pneumoniae* strains expressing carbapenemases**
A. Farooq (Hamburg, Germany), N. Kroemer, J.W. Decousser, J. Buyck, N. Grégoire, P. Nordmann, S.G. Wicha*

P0744 **Assessment of sensitivity to antiseptics with disodium edetate in causative agents of purulent-inflammatory complications due to application of metal foreign objects**
Y. Mozgova (Kharkiv, Ukraine), M. Mishyna, S. Malanchuk, O. Bondarenko, I. Marchenko, O. Dubovyk, O. Hopta, Y. Mishyn*

P0745 **Non-specific mode of action of octenidine: it´s all about the right dosage**
N. Malanovic (Graz, Austria), D. Vejzovic, A. Ön, A. Iftic*

P0746 **Systematic pharmacodynamic interaction screening of meropenem-vaborbactam and fosfomycin in isogenic and clinical *E. coli* and *K. pneumoniae* isolates expressing ESBL or carbapenemases**
N. Kroemer (Hamburg, Germany), J.W. Decousser, J. Buyck, N. Grégoire, P. Nordmann, S.G. Wicha*

P0747 ***Klebsiella pneumoniae* susceptibility to imipenem/relebactam and doripenem/relebactam combinations: role of inoculum density and carbapenem-to-inhibitor concentration ratio**
M.V. Golikova (Moscow, Russian Federation), A.V. Filimonova, A.A. Kuznetsova, E.N. Strukova*

P0748 **Rapid antimicrobial susceptibility testing by SdFFF: a proof-of-concept study**
A. Gauthier (Limoges, France), G. Begaud, S. Battu, O. Barraud*

P0749 **Chlorhexidine and octenidine susceptibility of clinical isolates from a three-armed cluster randomised decolonisation trial**
L.A. Denkel (Berlin, Germany), T.S. Kramer, J. Golembus, S. Wolke, P. Gastmeier, C. Geffers*

P0750 **Comparison of disk diffusion and broth microdilution methods for the determination of cefiderocol susceptibility for European Gram-negative clinical isolates: results from the ARTEMIS surveillance study**
C. Longshaw (London, United Kingdom), R. Canton, S. Gatermann, K. Jeannot, S. Stefania, D. Wareham, A.S. Henriksen*

P0751 **Direct rapid susceptibility testing of Enterobacterales in positive blood cultures by automated microscopic reading**
U. Schumacher (Ravensburg, Germany)*

P0752 **Development of EUCAST MIC and zone diameter clinical breakpoints for *Vibrio* spp.**
O. Karatuna (Växjö, Sweden), E. Matuschek, J. Åhman, G. Kahlmeter*

P0753 **Nanomotion-based antimicrobial susceptibility test: an innovative method to study intracellular bacteria such as *Chlamydia trachomatis* and *Waddlia chondrophila***
C. Aubry (Lausanne, Switzerland), D. Cichocka, G. Jozwiak, G. Wielgoszewski, M. Swiatkowski, C. Kebbi Beghdadi, G. Greub*

P0754 **The quality of ten brands of pre-poured commercial Mueller Hinton plates for disk diffusion: a EUCAST evaluation**
J. Åhman (Växjö, Sweden), E. Matuschek, G. Kahlmeter*

P0755 **The impact of incubation time on teicoplanin and vancomycin MIC values in *Staphylococcus aureus* and *S. epidermidis***
O. Karatuna (Växjö, Sweden), E. Matuschek, J. Åhman, S.M. Johansson, G. Kahlmeter*

P0756 **The cloxacillin-carbapenem inactivation method (cCIM) for improved phenotypic detection of carbapenemase producers**
W. Roach (Middlesbrough, United Kingdom), E. Sotiriadou, V. McCune*

P0757 **Killing of ocular pathogens in mixed pathogen assays by besifloxacin using minimum inhibitory concentration and mutant prevention concentration drug concentrations**
J. Blondeau (Saskatoon, Canada), S. Fitch*

P0758 **Minimum inhibitory concentration and mutant prevention concentration for besifloxacin and four other fluoroquinolones tested against ocular pathogens alone or in mixed organism assays**
J. Blondeau (Saskatoon, Canada), S. Fitch*

P0759 ***In vitro* activity of cefiderocol and comparator antimicrobials in a collection of *Pseudomonas aeruginosa* isolates recovered from people with cystic fibrosis during two Spanish multi-centre studies (2013-2021)**
A. Maruri-Aransolo (Madrid, Spain), C. López-Causapé, J.D. Caballero, M. García-Castillo, I. Penev, D. Gijón-Cordero, X. Mulet, R. Del Campo, A. Oliver, R. Cantón*

P0760 **Cefiderocol susceptibility testing against carbapenem and colistin resistant *Acinetobacter baumannii* isolates**
Á. Tóth (Budapest, Hungary), L. Buzgó, A. Hanczvikkel, A. Both, E. Ungvári*

P0761 **Validation of an in-line carousel for fully automated disk diffusion antimicrobial susceptibility testing**
K. Callebaut (Brussels, Belgium), S. Goes, K. Emmerechts, K. Vandoorslaer, I. Wybo, D. De Geyter, T. Demuyser, D. Piérard, A. Muyldermans*

P0762 **Monitoring for *in vitro* activity of aztreonam plus ESBL-inhibitors in NDM-*K. pneumoniae* isolates from bloodstream infections: a fast and practical way of testing**
A. Leonildi (Pisa, Italy), M. Menichini, S. Lo Sacco, A. Vecchione, C. Giordano, G. Tiseo, E. Tagliaferri, M. Falcone, F. Menichetti, S. Barnini*

P0763 **Comparison of lefamulin MIC Test Strip (MTS) to broth microdilution MIC for *Streptococcus* spp., *S. aureus*, *M. catarrhalis*, and *Haemophilus* spp.**
L. Koeth (Westlake, United States), J. Difranco-Fisher, D. Hardy, E. Palavecino, E. Carretto, S. Paukner*

P0764 **Antimicrobial activity of omadacycline *in vivo* against bacteria isolated from 2014 to 2017 in China, a multi-centre study**
C. Xin-Fei (Beijing, China), H. Jing-Jing, X. Ying-Chun*

P0765 **Clinical evaluation of an innovative AST system for ultra-rapid MIC determination using positive blood cultures from patients with bacteraemia**
E. Ghaderi (Uppsala, Sweden), H.E. Andersson, K. Jäder, J. Lindh*

P0766 **The EUCAST rapid antimicrobial susceptibility testing method directly from positive blood culture bottles: extending the incubation to 16-24 hours for five important sepsis pathogens**
E. Jonasson (Växjö, Sweden), E. Matuschek, G. Kahlmeter*

P0767 **High number of clinicaly relevant (minor) errors with commercial routine susceptibility testing methods for meropenem**
A.S. Jacob (Leuven, Belgium), M. Mylemans, M. Depypere, K. Lagrou, S. Desmet*

P0768 **A simple and sensitive method for controlling the anaerobic environment of anaerobic incubation**
U.S. Justesen (Odense, Denmark), J. Åhman, E. Matuschek, G. Kahlmeter*

P0769 **Outbreak of carbapenem-resistant *Acinetobacter baumannii* associated with polymyxins shortage during COVID-19 pandemic: an *in vitro* and biofilm analysis of synergism with meropenem, gentamicin, and sulbactam**
F.F. Tuon (Curitiba, Brazil), V. Chaiben, C.H. Yamada, J.P. Telles, A.P. De Andrade, L. Arend, V.S.T. Ribeiro, L.R. Dantas, P.H. Suss*

P0770 **Glucose-6-phosphate Mueller-Hilton agar as support for rapid detection of fosfomycin profiles in *Escherichia coli***
V. Mattioni Marchetti (Pilsen, Czech Republic), J. Hrabak, I. Bitar*

P0771 **Evaluation of the broth microdilution MIC method for exebacase against 100 beta-haemolytic streptococci**
L. Koeth (Westlake, United States), J. Difranco-Fisher, J. Ambler*

P0772 **Assessment of exebacase MIC reproducibility: thirty *S. aureus* isolates tested at three sites using three different commercial media lots**
L. Koeth (Westlake, United States), J. Difranco-Fisher, J. Ambler*

P0773 **Prevalence of mutations associated with resistance to azithromycin and moxifloxacin in *Mycoplasma genitalium* in a tertiary hospital from Madrid, Spain**
I. Quiles Melero (Madrid, Spain), A. Maldonado Barrueco, M. Rodríguez Ayala, P. Garcia Clemente, V. Guedez Lopez, E. Sendagorta Cudos, J. Mingorance, J. Garcia Rodriguez*

P0774 **Efficacy of disk diffusion, Etest and broth microdilution to test cefiderocol susceptibility in Enterobacterales: results of a retrospective and prospective studies on relevant carbapenem-resistant Enterobacterales**
L. Dortet (Le Kremlin-Bicêtre, France), R.A. Bonnin, C. Emeraud, T. Naas*

P0775 **Identifying the true wild-type MIC distribution: *Pseudomonas aeruginosa*, a challenging example**
J. Åhman (Växjö, Sweden), E. Matuschek, A. Oliver, E. Del Barrio-Tofiño, L. Zamorano, G. Kahlmeter*

P0776 **Evaluation of commercial customised plates for *Ureaplasma* spp. and *Mycoplasmas hominis* antimicrobial susceptibility testing and determination of resistance prevalence in France in 2020**
S. Pereyre (Bordeaux, France), N. Hénin, A. Dolzy, J. Guiraud, M. Gardette, C. Bébéar*

P0777 **Antimicrobial susceptibility testing for Gram-positive cocci towards vancomycin using scanning electron microscopy**
J. Bou Khalil (Marseille, France), S. Bellali, G. Haddad, A. Fontanini, A. Hisada, Y. Ominami, D. Raoult*

P0778 **Synergistic activity of fosfomycin in combination with antipseudomonal antibiotics against clinical isolates *Pseudomonas aeruginosa* with various resistance phenotypes**
B. Bedenic (Zagreb, Croatia), M. Slade, N. Beader, L. Bielen, I. Batarilo, S. Kibel, G. Maravic-Vlahovicek*

P0779 **EUCAST disk diffusion criteria for clinically important, commonly isolated, and rapidly growing anaerobic bacteria: correlations between inhibition zone diameters and agar dilution MICs on Fastidious Anaerobe Agar**
E. Matuschek (Växjö, Sweden), S. Copsey-Mawer, S. Petersson, J. Åhman, T. Morris, G. Kahlmeter*

PS020

3d. Resistance mechanisms incl *in vitro* and *in vivo* studies, mobile elements (excl TB)

P0780 **Antimicrobial susceptibility profile and prevalence of antibiotic resistance genes in clinical *Bacteroides* spp. strains**
M. Demir Çuha (Ankara, Turkey), C. Özkul Koçak, B. Otlu, G. Hazirolan*

P0781 **Increased resistance to broad-spectrum cephalosporins and carbapenems in *Klebsiella variicola***
M. Sadek (Fribourg, Switzerland), M. Aires-De-Sousa, M. Luisa Gonçalves, P. Nordmann, L. Poirel*

P0782 **Characterisation of NDM-15-producing *Escherichia coli* ST167 causing neonatal sepsis**
S. Mitra (Kolkata, India), S. Naha, A. Bhattacharjee, B. Saha, S. Dutta, S. Basu*

P0783 **Whole genome sequencing unveils a novel ST13 KPC-98-producing *Klebsiella pneumoniae* isolate resistant to ceftazidime/avibactam in Portugal**
G. Mendes (Lisbon, Portugal), J. Ramalho, A. Bruschy-Fonseca, L. Lito, A. Duarte, J. Melo-Cristino, C. Caneiras*

P0784 **First description of ceftazidime/avibactam resistance in a ST13 KPC-70 producing *Klebsiella pneumoniae* isolate from Portugal**
G. Mendes (Lisbon, Portugal), J. Ramalho, A. Bruschy-Fonseca, L. Lito, A. Duarte, J. Melo-Cristino, C. Caneiras*

P0785 **Emerging clinical cross-resistance following exposure to topical over-the-counter antibiotics used in sore throat medications**
A. Robertson (Cardiff, United Kingdom), A. Shephard, G. Coutinho, J.Y. Maillard*

P0786 **Heavy metal resistance among *Enterobacteriaceae* isolates from a children population exposed to high levels of contamination**
C. López-López (Madrid, Spain), A. Ripoll, M. Rodríguez-Baños, M.D. Fernández De Bobadilla, A. Sánchez-Valenzuela, F. Baquero, T.M. Coque*

P0787 **Efflux and biocide reduced susceptibility in *Staphylococcus pseudintermedius***
I. Couto (Lisbon, Portugal), M. Leal, S.S. Costa, B. Ramos, C. Morais, C. Ferreira, C. Pomba*

P0788 **Co-occurrence of *mcr-1* and *mcr-4* genes in *Escherichia coli* from a healthy pig in Portugal**
A. Amaro (Oeiras, Portugal), C. Leão, L. Clemente, V. Guerra, T. Albuquerque*

P0789 **Evaluation of *in vitro* activity of double beta-lactam therapy and relationship with penicillin-binding proteins activity in *Escherichia coli* isolates**
J. Suich (Hull, United Kingdom), M. Van Der Woude, D. Wearmouth, P. Burns, G. Barlow*

P0790 **Investigation of cefiderocol resistance mechanisms in *Klebsiella pneumoniae***
I. Ghazi (Philadelphia, United States), J. Heindl, G. Harb, D. Alrahmany*

P0791 **Resistance determinants in cefiderocol resistant *Escherichia coli***
I. Ghazi (Philadelphia, United States), G. Harb, J. Heindl*

P0792 **Model-based assessment of resistance mechanisms to β-lactam antibiotics and β-lactamase-inhibitors: a case study using piperacillin-tazobactam in *Klebsiella pneumoniae***
S.T. Tandar (Leiden, Netherlands), L.B.S. Aulin, J.G.C. Van Hasselt*

P0793 **The interplay of resistance mechanisms associated with reduced susceptibility and resistance to imipenem and ceftazidime-avibactam in clinical *Pseudomonas aeruginosa* isolates from Switzerland**
J. Findlay (Fribourg, Switzerland), B. Babouee Flury, A. Boesch, V. Gisler, M. Oberle, A. Egli, S.N. Seiffert, O. Nolte, F. Hans*

P0794 **Effect of glycerol on fosfomycin activity against *Escherichia coli***
M. Ortiz-Padilla (Seville, Spain), I. Portillo-Calderón, A. Velázquez-Escudero, Á. Pascual-Hernández, J.M. Rodríguez-Martínez, F. Docobo-Pérez*

P0795 **Mechanisms of resistance to fluoroquinolones in *Pseudomonas aeruginosa*: the role of *crpP* and mobilisable ICEs**
Y. Sáenz (Logroño, Spain), M. López, B. Rojo-Bezares, G. Chichón*

P0796 **Increased pbp4 expression levels influence β-lactam resistance and ceftobiprole non-susceptibility in *Enterococcus faecalis* clinical isolates**
L. Lazzaro (Catania, Italy), M. Cassisi, F. Longo, S. Stefani, F. Campanile*

P0797 **Plasmid transfer in ICU patient co-carriers of multiple ESBL-producing Enterobacterales species**
J. Pehlivan (Paris, France), M. Rouyer, M. Petitjean, S. Gueye, J.F. Timsit, P. Montravers, E. Denamur, C. D'humières, L. Armand-Lefevre*

P0798 **Activity of ceftazidime/avibactam in combination with aztreonam against carbapenemase-producing *Pseudomonas aeruginosa***
M.M. Montero (Barcelona, Spain), S. Domene-Ochoa, C. López-Causapé, S. Luque, L. Sorli, I. López-Montesinos, N. Campillo, E. Padilla, N. Prim, S. Grau, A. Oliver, J.P. Horcajada*

P0799 **Identification of a novel toxin-antitoxin system in *Streptococcus pyogenes* and its role in stress adaption and antibiotic tolerance**
M. Mansour (Berlin, Germany), N. Lautenschlaeger, E. Charpentier*

P0800 **First description of bla_{VIM-2}-carrying *Pseudomonas asiatica* strains in Europe**
Y. Sáenz (Logroño, Spain), M. López, B. Rojo-Bezares, L. González-López, J.M. Azcona-Gutiérrez*

P0801 **Meropenem-vaborbactam resistance in KPC-producing *Klebsiella pneumoniae* as a result of porin loss and increased KPC expression via plasmid rearrangement**
J. Findlay (Fribourg, Switzerland), L. Poirel, P. Nordmann*

P0802 **The effect of ampicillin and cefuroxime on selection of *ftsI* mutations leading to amino acid substitutions in the PBP3 in *Haemophilus influenzae* strains**
K. Pomorska (Prague, Czech Republic), V. Jakubu, L. Malisova, M. Musilek, H. Zemlickova*

P0803 **Functional characterisation of a novel metallo-β-lactamase NDM-35**
J.M. Ortiz De La Rosa (Fribourg, Switzerland), A. Kusaksizoglu, Z. Sakaoglu, P. Nordmann, L. Poirel*

P0804 **WGS-Analysis of non-beta-lactamase-mediated carbapenem resistance in the non-fermenter *A. baumannii***
L.M. Höfken (Bochum, Germany), N. Pfennigwerth, S. Gatermann*

P0805 **Molecular mechanism of Sed-1 β-lactamase expression in *Citrobacter sedlakii***
M. Watanabe (Kashihara, Japan), R. Nakano, A. Nakano, Y. Yamada, Y. Suzuki, K. Saito, S. Yagi, K. Endo, A. Suwabe, H. Yano*

P0806 **Cefiderocol susceptibility levels in carbapenem non-susceptible *Acinetobacter baumannii* and *Pseudomonas aeruginosa* from Peruvian hospitals**
J. Ruiz Blazquez (Lima, Peru), D. Navarro, B. Ymaña, F. Guibert, A.C. Gómez, G. Salvador, Y.V. Reyes, C. Valera, G. Soza, M. Casapia, J. Lagos, M. Riveros, M.J. Pons*

P0807 **The dynamic changes of tetracycline resistance and faecal microbiota using flavophospholipol as a pig feed additive**
H. Kudo (Ebetsu, Japan), J. Kimura, A. Fukuda, S. Higashi, K. Oka, T. Motomichi, M. Usui*

P0808 **Genomic analysis of the mobile genetic elements in KPC3 carbapenemase-producing organisms identified in British Columbia, Canada**
A. Sridhar (Vancouver, Canada), D. Fornika, R. Ranasinghe, W. Hsiao, L. Hoang*

P0809 **Proposal for the nomenclature of transferable *tnfxB-tmexCD-topJ*-like gene clusters**
J.H. Liu (Guangzhou, China), C.Z. Wang*

P0810 **Efflux-mediated temocillin resistance: should we ignore the colonies within the inhibition zone?**
D. Machado (Lisbon, Portugal), R. Lopes, M. Viveiros*

P0811 **Adaptative plasticity of KPC carbapenemase**
H. Jacquier (Paris, France), G. Pierrat, I. El Meouche, A. Choudhury, A. Birgy, C. Hobson, P. Mercuri, Y. Mechulam, G. Feller, F. Bouillenne, F. Kerff, V. Gross, O. Tenaillon, M. Galleni*

P0812 **Characterisation of a beta-lactamase originating from the phylum *Bacteroidetes* identified in *Escherichia coli***
E. Ruppé (Paris, France), C. Fournier, M. Petitjean, P. Nordmann, R. Gschwind, E. Denamur, A. Mellmann, L. Poirel*

P0813 **Emergence of KPC variants from clinical origin associated with reduced susceptibility to ceftazidime-avibactam, including four novel blaKPC-2 variants**
F. Pasteran (Caba, Argentina), S. Gomez, B. Sanz, J.M. De Mendieta, D. Faccone, L. Errecalde, M.R. Nuñez, R. Monge, V. Alexander, M.D. Cudmani, M. Pennini, A. Corso*

P0814 **Collateral antibiotic synergism in multidrug-resistant *Pseudomonas aeruginosa***
R.O. Kiilerich (Copenhagen, Denmark), S. Radmer, M. Juhl, M. Aarris, N. Frimodt-Møller, M. Kolpen, H.K. Johansen, P.Ø. Jensen*

P0815 **Inducible aminoglycoside resistance in vancomycin resistant *Enterococcus faecium***
M. Juhl (Copenhagen, Denmark), R.O. Kiilerich, M. Aarris, S. Radmer, K.L. Nielsen, F.B. Hertz, N. Frimodt-Møller*

P0816 **Characterisation of a novel *blaVIM-2*-type metallo-β-lactamase, *blaVIM-63*, from clinical *Pseudomonas aeruginosa* and *Citrobacter freundii* isolates**
M. Pulido Toledano (Seville, Spain), A. García-Montaner, L. López-Cerero, F. Fernández-Cuenca, J. Gutiérrez-Fernández, Á. Pascual*

P0817 **New ß-lactamase in *Staphylococcus aureus* with increased resistance towards penicillin and oxacillin/cloxacillin**
M. Aarris (Copenhagen, Denmark), F.B. Hertz, H.T. Westh, M. Kemp, S. Ellermann-Eriksen, H. Krogh Johansen, M. Juhl, R. Kiilerich, K. Leth Nielsen, N. Frimodt-Møller*

P0818 **Silent dissemination of carbapenem-susceptible OXA-48-producing *Proteus mirabilis***
R. Pedraza Merino (Córdoba, Spain), N. Kieffer, J. Guzman Puche, C. Pitart, J. Vila Estape, M. Hernández García, R. Cantón Moreno, L. Martínez Martínez*

P0819 ***Klebsiella pneumoniae* ST3? strikes back**
G. Arcari (Rome, Italy), F.M. Di Lella, F. Sacco, D. Tomolillo, R. Polani, F. Bruno, G. Bibbolino, G. Raponi, A. Carattoli*

P0820 **Phenotypic and molecular characterisation of a plasmid-derived IMI-6 carbapenemase-producing *Enterobacter ludwigii* isolate**
J. Guzmán-Puche (Córdoba, Spain), T. Blanco-Martín, C. Riazzo-Damas, M. Causse-Del Río, M. Gasca-Santiyán, L. Martínez-Martínez*

P0821 **Carbapenem resistance in *Acinetobacter nosocomialis* and *Acinetobacter junii* conferred by acquisition of $bla_{OXA-24/40}$ and genetic characterisation of the transmission mechanism between *Acinetobacter* genomic species**
C. Lasarte-Monterrubio (A Coruña, Spain), P. Guijarro-Sánchez, A. Bellés, J.C. Vázquez-Ucha, J. Arca-Suárez, C. Fernandez-Lozano, G. Bou, A. Beceiro*

P0822 **Enhanced expression of sigma E increases carbapenem resistance in *Klebsiella pneumoniae* with bla_{OXA48}**
M. Cremanns (Bochum, Germany), S. Gatermann, N. Pfennigwerth*

P0823 **Comparative *in vitro* dynamics and resistance mechanisms to Imipenem/Relebactam and Ceftazidime/Avibactam in high-risk clones of KPC-2 and KPC-3-producing *Klebsiella pneumoniae***
J. Arca-Suárez (A Coruña, Spain), R. Pedraza-Merino, M. González De Aledo, E. Gato, M.D.C. Fernández-López, P. Guijarro-Sánchez, S. Rumbo-Feal, L. Martínez-Martínez, A. Beceiro, G. Bou*

P0824 **Elucidation of the resistance mechanism of *Enterobacter roggenkampii* that simultaneously produces carbapenemases IMI-16 and IMI-18**
K. Saito (Kashihara, Japan), Y. Suzuki, R. Nakano, A. Nakano, M. Watanabe, H. Yano*

P0825 **Activity of imipenem/relebactam and cefiderocol against clinical and laboratory *Pseudomonas aeruginosa* isolates expressing bla_{PDC} and bla_{OXA}-type β-lactamases that confer resistance to ceftolozane/tazobactam and ceftazidime/avibactam**
J. Arca-Suárez (A Coruña, Spain), C. Lasarte-Monterrubio, P.A. Fraile-Ribot, J.C. Vázque-Ucha, G. Cabot, S. Rumbo-Feal, P. Guijarro-Sánchez, F. Galán-Sánchez, A. Beceiro, A. Oliver, G. Bou*

P0826 **Hypervirulent *Klebsiella pneumoniae* clinical isolates K1 and K2 capsular serotypes in Oman resist killing: a possible Trojan horse theory?**
Z.J. Aljabri (Muscat, Oman), B.N. Al-Busaidi, M.R. Rizvi, A.R. Al-Rashdi, A.J. Al-Jardani*

P0827 **Aminoglycoside resistance in Saccharibacteria members: a key for its co-culture**
A. Ibrahim (Marseille, France), D. Raoult, F. Bittar*

P0828 **Phylogenetic analysis of genes in the D-Ala-D-lactate synthesising glycopeptide resistance operons**
G. Kardos (Debrecen, Hungary), L. Laczkó, E. Kaszab, B. Timmer, J.B. Nagy, K. Bányai*

P0829 **Whole genome sequencing of β-lactam antibiotics resistant *Haemophilus influenzae* strain without known resistance mechanisms**
V. Jakubu (Prague, Czech Republic), P. Spanelova, L. Malisova, K. Pomorska, H. Zemlickova*

P0830 **Resistance to meropenem/vaborbactam in KPC-producing *E.cloacae* outbreak in a Spanish tertiary hospital**
P. Navarro (Madrid, Spain), F. Lázaro, G. Ruiz, J. García, M.R. Gómez-Gil*

P0831 **The global response regulator BfmR of *Acinetobacter baumannii* contributes to β-lactam resistance**
B. Wenzel (Cologne, Germany), K. Lucaßen, K. Xanthopoulou, A.A. Fayad, L.P. Haraoui, H. Seifert, P.G. Higgins*

P0832 **Unusual association of IS*Aba1* and third-generation cephalosporin susceptibility in an *Acinetobacter baumannii* clinical isolate**
C. Silva Nodari (São Paulo, Brazil), P. Higgins, R. Cayo, A. Streling, F. Lei, J. Wille, H. Seifert, A. Gales*

P0833 **Detection of resistance genes and susceptibility patterns in rare Gram-negative anaerobic bacteria**
M. Demir Çuha (Ankara, Turkey), G. Hazirolan*

P0834 **Comparison of clinical manifestations, antimicrobial susceptibility patterns, and carbapenem resistance determinants between *Acinetobacter seifertii* and *Acinetobacter nosocomialis* isolated in Taiwan**
Y.T. Lee (Taipei, Taiwan, China), L.H. Li, Y.C. Wang*

P0835 **Intracellular activity of delafloxacin against small colony variant *Staphylococcus aureus***
C. Volk (Madison, United States), H. Thompson, A. Rosato, W. Rose*

P0836 **Granulocytic immune response in sepsis induces the bacterial SOS response**
A.C. Hernandez Padilla (Limoges, France), S. Chollet, T. Daix, R. Jeannet, M.C. Ploy*

P0837 **Tn*1999.7* characterisation of a novel OXA-48 transposon**
J. Sattler (Cologne, Germany), S. Göttig, J. Sommer, T. Tsvetkov, Y. Stelzer, A. Hamprecht*

P0838 **Co-lateral effect of octenidine, chlorhexidine and colistin selective pressures on four enterobacterial species: a comparative genomic analysis**
L. Poirel (Fribourg, Switzerland), M. Lescat, M. Magnan, S. Kenmoe, P. Nordmann*

P0839 **Discovering genetic barriers to the spread of AMR**
J. Wildfire (London, United Kingdom), A. Gupta, A. Sharpe, G. Knight, J. Lindsay*

P0840 **Highly conserved *mcr*-1-carrying plasmids but polyclonal spread of colistin-resistant *Escherichia coli* from human patients and livestock products in Germany**
B. Neumann (Wernigerode, Germany), W. Rackwitz, N. Pfennigwerth, K.P. Hunfeld, M. Kresken, R. Leistner, M. Probst-Kepper, J.A. Hammerl, G. Werner, Y. Pfeifer*

P0841 ***Pseudoxanthomonas mexicana* is the origin of the *bla*AIM-1 carbapenemase gene**
N. Kieffer (Madrid, Spain), S. Ebmeyer, D.G.J. Larsson*

P0842 **Evolution of ß-lactamase mediated cefiderocol resistance**
V. Sørum (Tromsø, Norway), C. Fröhlich, N. Tokuriki, Ø. Samuelsen*

P0843 ***In vitro* activity of sulbactam-durlobactam against carbapenem-resistant *Acinetobacter baumannii***
M. Bouvier (Fribourg, Switzerland), L. Poirel, J. Findlay, P. Nordmann*

P0844 **Antibiotics modulate the emergence of colistin resistance via IS*Aba* inactivation of lipooligosaccharide biosynthesis genes in *Acinetobacter baumannii***
A. Corral-Lugo (Madrid, Spain), H. Olmeda-López, M. Mcconnell*

P0845 **Prevalence of linezolid-resistance genes and mutations among linezolid-susceptible *Enterococcus* spp. isolates from hospital patients in Germany, 2019-2021**
G. Werner (Wernigerode, Germany), J. Bender, C. Fleige, M. Fischer*

P0846 **The suppressive effect of *Clostridium butyricum* MIYAIRI 588 on gut-colonising ESBL-producing *Escherichia coli***
K. Asano (Toyama, Japan), M. Somekawa, S. Okamoto, Y. Morinaga*

P0847 **Antifungal activity of isavuconazole and comparator agents against contemporaneous Mucorales isolates from USA, Europe, and Asia-Pacific**
C.G. Carvalhaes (North Liberty, United States), P.R. Rhomberg, M.D. Huband, M.A. Pfaller, M. Castanheira*

P0848 **Full-genomic characterisation of extensively drug-resistant *E. coli* clinical isolate co-harbouring blaNDM-5, blaKPC-3, blaCMY-42, blaSHV-11, blaCTX-M-15 and rmtB**
M. Sadek (Fribourg, Switzerland), L. Poirel, P. Nordmann*

P0849 **Co-resistance to ceftazidime-avibactam and to cefiderocol in clinical isolates producing KPC variants**
M. Sadek (Fribourg, Switzerland), L. Poirel, A. Kusaksizoglu, P. Nordmann*

P0850 ***In vitro* activity of ceftazidime-avibactam (CAZ-AVI) and comparators against *Pseudomonas aeruginosa* (*Paer*) collected worldwide stratified by global region, ATLAS global surveillance programme, 2016-2020**
M. Wise (Schaumburg, United States), G. Stone, D. Sahm*

P0851 **Plasmids coupled with genes encoding the utilisation of prebiotics: a threatening opportunity for adaptation of antibiotic-resistant bacteria?**
T. Nohejl (Brno, Czech Republic), J. Palkovicova, A. Valcek, K. Nesporova, M. Dolejska*

P0852 **TolC-mediated efflux is a major factor contributing to the observed variable activity of gepotidacin against *Klebsiella pneumoniae* clinical isolates**
K. Mattern (Collegeville, United States), N. Scangarella-Oman, S. Rittenhouse, J. Huang*

P0853 **Molecular characterisation of VIM-29, a new VIM-1 metallo-β-lactamase variant isolated in *Escherichia coli* from France**
L. Dortet (Le Kremlin-Bicêtre, France), I. Rezzoug, C. Emeraud, E. Creton, T. Naas, R.A. Bonnin*

P0854 **Antimicrobial activity of meropenem-aztreonam combination against carbapenemase-producing *Serratia marcescens* assessed by time-kill assay**
B. Pérez-Viso (Madrid, Spain), M.I. Morosini, P. Ruiz-Garbajosa, R. Del Campo, R. Cantón*

P0855 **Human serum proteins and susceptibility of *Acinetobacter baumannii* to cefiderocol: role of iron transport**
M.S. Ramirez (Fullerton, United States), C. Le, C. Pimentel, F. Pasteran, M.R. Tuttobene, T. Subils, J. Escalante, B. Nishimura, A.J. Vila, A. Corso, L.A. Actis, M.E. Tolmasky, R.A. Bonomo*

P0856 **Repeated exposure of *Escherichia coli* to clinical ciprofloxacin concentrations selects fluoroquinolone-specific, hyperpersistent *gyrB* mutants**
A. Perault (Toulouse, France), C. Turlan, N. Eynard, Q. Vallé, A. Bousquet-Melou, E. Giraud*

P0857 **Susceptibility to ceftazidime/avibactam and other antibiotics in carbapenemase-producing bloodstream isolates of *K. pneumoniae***
I. Stoma (Gomel, Belarus), N. Bonda, E. Karpova, D. Tapalski*

P0858 **Detection of the new Extended-Spectrum β-Lactamase (ESBL) SED-2 in Citrobacter sedlakii**
S. Laviad-Shitrit (Tel Aviv, Israel), S. Frenk, N. Rakovitsky, R. Rov, M. Lurie-Weinberger, A. keren-Paz, D. Schwartz, Y. Carmeli*

PS021

3e. Resistance detection / prediction approaches (rapid and/or molecular assays, resistome analysis, inference methods)

P0859 **Development of LAMP-based multiplex real-time assay for rapid detection of genes of CTX-M group ESBL**
Y. Savochkina (Moscow, Russian Federation), E. Shivlyagina, A. Nosova, A. Ibragimova, D. Danilov, G. Shipulin*

P0860 **Validation and real-life performance of the rapid combination disk test (RCDT) directly from positive blood culture bottles**
B. Berinson (Hamburg, Germany), N. Degel-Brossmann, H.G. Roggenkamp, M. Aepfelbacher, H. Rohde, M. Christner*

P0861 **Rapid detection of OXA-23-, OXA-40- and OXA-58-mediated carbapenem resistance in *Acinetobacter baumannii***
A. Klimka (Cologne, Germany), S. Mertins, G.P. Higgins, C. Thunissen, Q. Gilleman, P. Mertens, H. Seifert, M. Krönke*

P0862 **A workflow comparison for detection of carbapenemase-producing Enterobacterales and *Pseudomonas aeruginosa* using lateral flow detection and MALDI TOF confirmation to reduce time to detection**
F. Yongblah (London, United Kingdom), Y. Spasova, E. Cloutman-Green*

P0863 **Rapid detection of multidrug-resistant Gram-negative bacilli using an automated phenotipic method in a Spanish university hospital**
M. Sandoval (Oviedo, Spain), B. Rivaya, M. Mateos, J.L. Carretero, R. Romay, P. Díez, A. Fernández-Verdugo*

P0864 **Detection of carbapenemases in Enterobacterales: presentation of the new German guideline**
A. Hamprecht (Oldenburg, Germany), M. Kresken, D. Mack, E. Molitor, S. Gatermann*

P0865 **Efflux-mediated pretomanid high-level resistance in a naive *Mycobacterium tuberculosis* pretomanid-resistant clinical strain**
D. Machado (Lisbon, Portugal), J. Perdigão, I. Portugal, T.G. Clark, M. Viveiros*

P0866 **The oropharynx of men using HIV pre-exposure prophylaxis is enriched with antimicrobial resistance genes**
C. Van Dijck (Antwerp, Belgium), J. Laumen, T. De Block, S. Abdellati, S. Malhotra-Kumar, C. Kenyon, S. Manohoran-Basil, B. Basil-Xavier*

P0867 **Rapid detection of carbapenem and third-generation cephalosporin resistance directly from positive blood cultures**
C. Malmberg (Uppsala, Sweden), J. Torpner, L. Flinkfeldt, E. Davies, A. Åman, H. Öhrn, J. Ångström, C. Johansson, T. Tängdén*

P0868 **rCIM-IMP: one test to catch them all**
S.D. Guta (Bucharest, Romania), E. Chelaru, A.A. Muntean, M.M. Muntean, M. Preda, C. Dragomirescu, S. Oueslati, D. Girlich, R. Bonnin, L.G. Popa, M.I. Popa, T. Naas*

P0869 **Whole genome-based characterisation of *Campylobacter jejuni* from human patients with gastroenteritis collected over an 18-year period (2003-2020)**
G. Ghielmetti (Zurich, Switzerland), H.M.B. Seth-Smith, T. Roloff, N. Cernela, R. Stephan, A. Egli*

P0870 **Lateral flow immunoassay for GES detection in Gram-negative bacteria**
C. Gonzalez (Le Kremlin-Bicêtre, France), H. Volland, R. Le Gall, L. Francius, A. Vogel, S. Simon, T. Naas*

P0871 **Investigation of high-risk *Escherichia coli* ST131 clone carriage in healthy children**
F.M. Arslan (Istanbul, Turkey), S. Pelit, A. Sahin, N. Dalgic, E. Aktas Sepetci*

P0872 **Oxacillin as an AmpC inhibitor in Enterobacterales: a good alternative to cloxacillin**
S.D. Guta (Bucharest, Romania), E. Chelaru, A.A. Muntean, M.M. Muntean, M. Preda, C. Dragomirescu, L.G. Popa, M.I. Popa*

P0873 **Long-term effects of ciprofloxacin treatment in gut and oropharyngeal microbiomes are more pronounced after longer antibiotic courses**
J.P. Rodriguez-Ruiz (Antwerp, Belgium), Q. Lin, A.J. Stewardson, L. Van Heirstraeten, C. Lammens, M. Godycki-Cwirko, S. Coenen, H. Goossens, S. Harbarth, S. Malhotra-Kumar*

P0874 **Predicting infections caused by carbapenem-resistant Enterobacterales resistant to ertapenem but susceptible to meropenem in a region with a predominance of non-carbapenemase producers**
C. Black (Austin, United States), S. Bandy, S. Aguilar, A. Anderson, G. Gawrys, D. Steven, B. Raymond, A. Moreira, G. Lee*

P0875 **Simple and inexpensive protocol to detect carbapenemase-producing Enterobacterales in humans**
S. Gueye (Paris, France), L. Linda Van Der Graaf-Van Bloois, M. Kemper, A. Zomer, J.M. Alvarez, , Triumph Jpiarm Group, H. Schmitt, L. Armand-Lefevre*

P0876 **New divergent beta-lactamases in candidate phyla radiation: owning pleiotropic enzymes is a smart paradigm for microorganisms with reduced genome**
M. Maatouk (Marseille, France), A. Ibrahim, L. Pinault, N. Armstrong, S. Azza, J.M. Rolain, D. Raoult, F. Bittar*

P0877 **Capturing the antibiotic resistome of preterm infants reveals new benefits of probiotic supplementation**
A.K. Guitor (Hamilton, Canada), E.I. Yousuf, A.R. Raphenya, E.K. Hutton, K.M. Morrison, A.G. Mcarthur, G.D. Wright, J.C. Stearns*

P0878 **Antimicrobial resistome and clonal diversity in *Acinetobacter baumannii* strains from a hospital in Mexico**
A. Luna-De Alba (Monterrey, Mexico), S. Villarreal-Cruz, S. Flores-Treviño, D. Salas-Treviño, A. Camacho-Ortiz, J.F. Contreras-Cordero, L. Villarreal-Treviño, P. Bocanegra-Ibarias*

P0879 **Lateral flow immunoassay for OXA-23 detection in Gram-negatives**
C. Gonzalez (Le Kremlin-Bicêtre, France), H. Volland, L. Niol, L. Francius, E. Dupré, S. Simon, T. Naas*

P0880 **Novel method to quantify quinolone resistance mutations in faecal samples using digital droplet PCR (ddPCR)**
A. Fagerström (Örebro, Sweden), S. Al-Hashimi, J. Styrke, M. Sundqvist*

P0881 **Inference of collateral sensitivity effects in large scale antimicrobial resistance surveillance data**
L.B. Zwep (Leiden, Netherlands), G. Forn Cuni, A. Liakopoulos, J.G.C. Van Hasselt*

P0882 **Differential contribution of resistance determinants to target-site attainment and binding of β-lactams to penicillin binding proteins (PBP) of *Pseudomonas aeruginosa***
S. López (Palma, Spain), M. Montaner, A. Oliver, B. Moya*

P0883 **Molecular and genomic characterisation of colistin resistance in clinical isolates from King Fahad Medical City, Riyadh, Saudi Arabia**
L. Okdah (Riyadh, Saudi Arabia), M. Aldosary, A. Almazyed, T.T. Abdelrahman, J.M. Rolain, S.M. Diene*

P0884 **Application of proximity ligation to link antibiotic resistance genes and species using metagenomics**
J. Grützke (Berlin, Germany), J.A. Hammerl, J. Fischer, L.J. Bartsch, B. Malorny, C. Deneke*

P0885 **A multi-site evaluation of a rapid antimicrobial susceptibility testing (rAST) instrument: a commercial system for positive blood culture samples**
J. Chew (Basingstoke, United Kingdom), K. Brown, S. Davies, N. Stieneker, J. Monkhouse, R. Houghton, J. Bullivant, C. Ewering, T. Hampshire*

P0886 **MALDI-TOF profiling of lipid A as a diagnostic tool for the detection of colistin resistance in *Escherichia coli*, *Klebsiella pneumoniae* and *Acinetobacter baumannii***
F. Nilsson (Karlskrona, Sweden), S. Lockwood, Å. Johansson, M.A. Klokkhammer Hetland, I. Høyland Löhr, O. Ekelund, S. Somajo*

P0887 **The effect of *Neisseria gonorrhoeae* non-random co-resistances on the utility of rapid antimicrobial resistance assays**
S. Bell (Herston, Australia), R. Ware, D. Lewis, M. Lahra, D. Whiley*

P0888 **Prevalence and characterisation of tolerance phenotypes to multiple antimicrobials in multidrug-resistant clinical isolates of *Klebsiella pneumoniae***
E. Recacha (Huelva, Spain), S. Díaz-Díaz, M. Romero-Muñoz, B. De Gregorio-Iaria, M.R. Pulido-Toledano, F. Docobo, Á. Pascual, J.M. Rodríguez-Martínez*

P0889 **Evaluation of commercial systems for rapid-antimicrobial susceptibility testing (rAST) of positive blood cultures: comparison of susceptibility results; ASTar**
J. Chew (Basingstoke, United Kingdom), J. Bullivant, S. Davies, M. Tovey, E. Ward-Williams, H. Rollett, T. Hampshire*

P0890 **Timely targeted treatments in sepsis: an evaluation of the real-time benefits of the commercial ASTar system on patient outcome by providing rapid direct blood culture sensitivities in Gram-negative organisms**
J. Monkhouse (Prescot, United Kingdom), R. Houghton, K. Brown, J. Chew, T. Hampshire*

P0891 **Identification of new integron-borne *fos* genes from contaminated river sediments and wastewater through functional metagenomics**
N. Kieffer (Madrid, Spain), M.E. Böhm, F. Berglund, N.P. Marathe, J. Larsson*

P0892 **Direct detection in biological media of expanded-spectrum cephalosporinase activity and CTX-M enzymes by lateral flow immunoassay**
C. Moguet (Gif-Sur-Yvette, France), C. Gonzalez, L. Francius, A. Chalin, T. Naas, S. Simon, H. Volland*

P0893 **Phenotypic expression of antibiotic resistance genes in subgingival biofilm of patients with periodontitis**
C.S. Stingu (Leipzig, Germany), M. Sparbrod, Y. Gager, H. Jentsch*

P0894 **A novel fluorogenic assay for rapid detection of carbapenemases in multidrug-resistant *Enterobacteriaceae***
Z.X. Wang (Tianjin, China), S.L. Li, Y. Zhang, X.Y. Yan*

P0895 **Proteomic alterations underlie β-lactam hinderance of daptomycin resistance in methicillin-resistant *Staphylococcus aureus* (MRSA)**
C. Lew (Madison, United States), M. Pellitteri Hahn, C. Scarlett, A. Bayer, W. Rose*

P0896 **Comprehensive activity profiles and genetic characterisation of daptomycin resistance in a diverse set of methicillin-resistant *Staphylococcus aureus* (MRSA) strains by whole genome sequencing (WGS)**
C. Lew (Madison, United States), E. Rees, A. Bayer, W. Rose*

P0897 **Moxifloxacin disk diffusion for antimicrobial susceptibility testing of *Enterococcus faecalis***
S. Malig (Odense, Denmark), L.H. Pedersen, U.S. Justesen*

P0898 **Co-infection of carbapenem-resistant *A. baumannii* ST2 in SARS-CoV-2 patients admitted to intensive care unit of an Italian hospital**
A. Piccirilli (L'aquila, Italy), S. Cherubini, M. Perilli, A. Stanziale, C. Di Iorio, A. Frattari, G. Parruti, B. Segatore, G. Amicosante, P. Fazii*

P0899 **Phenotypic and genotypic characterisation of the *nsr* gene involved in nisin resistance in the *Staphylococcus capitis* NRCS-A clone**
M. Chavignon (Lyon, France), M. Bonhomme, M. Bergot, E. Shumeri, A. Tristan, F. Laurent, M. Butin*

P0900 **Are GES carbapenemases underdiagnosed? An allelic discrimination assay for its accurate diagnostic**
D. Pablo-Marcos (Santander, Spain), M. Siller, A. Álvarez-Justel, J. Rodríguez-Lozano, S. Velasco De La Fuente, J. Agüero, J. Calvo*

PS022

3f. Clinical outcome of resistant infections (excl trials of new drugs)

P0901 **A retrospective study of efficacy and safety of cefmetazole for bacteraemia caused by extended-spectrum beta-lactamase-producing *Enterobacteriaceae* compared with carbapenem**
E. Kashihara (Tenri, Japan), R. Sada, Y. Tsugihashi, H. Obayashi, S. minoda*

P0902 **Prognostic significance of bacterial load in patients with intestinal colonisation by KPC-producing *Klebsiella pneumoniae*: a prospective cohort study**
E. Pérez-Nadales (Madrid, Spain), A. M.natera, M. Recio-Rufián, J. Guzmán-Puche, J.A. Marín-Sanz, Á. Cano, J.J. Castón, C. Elías-López, B. Gutiérrez-Gutiérrez, L. Martínez-Martínez, J. Torre-Cisneros*

P0903 ***In vitro* activity and clinical efficacy of faropenem against third-generation cephalosporin-resistant *Escherichia coli* and *Klebsiella pneumoniae***
K. Ishikawa (Tokyo, Japan), Y. Uehara, N. Mori, Y. Mikami, S. Tokioka, D. Kobayashi, H. Goke, T. Inukai, A. Sakurai, Y. Doi, S. Kawakami, Y. Sugawara, S. Kayama, M. Sugai, S. Nakamura*

P0904 **Impact of COVID-19 on multidrug-resistant Gram-negative bacilli bloodstream infections in an intensive care unit setting: preliminary results from two pandemics compared**
F. Cogliati Dezza (Rome, Italy), G. Arcari, F. Alessi, S. Valeri, A. Curtolo, F. Sacco, G. Ceccarelli, G. Raponi, F. Alessandri, C.M. Mastroianni, M. Venditti, A. Oliva*

P0905 **The surveillance of gut colonisation by carbapenemase-producing Enterobacterales (CPE) in haematological patients**
K. Tandilova (Moscow, Russian Federation), G. Klyasova, S. Khrulnova, V. Troitskaya, L. Kuzmina, G. Galstyan, S. Kravchenko, E. Gribanova, E. Zvonkov, V. Savchenko, E. Parovichnikova*

P0906 **Resistance to first line antibiotic therapy among patients with uncomplicated acute cystitis: prevalence, predictors, and clinical impact**
S. Curtis (Melbourne, Australia), K. Chua, Y.L. Chaung, D. Mazza, J. Kwong, A. Stewardson*

P0907 **Prevalence and temporal trends of critical infections due to ESKAPE microorganisms in nine tertiary hospitals of Rio de Janeiro in the COVID-19 era**
J. Correal (Rio De Janeiro, Brazil), G. Coutinho, C. De Moura, L. Oliveira, M. Martins, W. Da Silva, M. Faxas, P. De Albuquerque, J. Heringer, P. Damasco*

P0908 **Epidemiological, clinical and microbiological characteristics of patients with bloodstream infections due to carbapenem-resistant *K. pneumoniae* in Southern Italy: a multi-centre study**
L. Onorato (Naples, Italy), B. Sarnelli, F. D' Agostino, A. Postiglione, U. Trama, A. Perrella, G. Signoriello, N. Coppola*

P0909 **Risk factors for CRE clinical infection among carriers, does the resistance mechanism matter?**
N. Hassoun-Kheir (Haifa, Israel), K. Hussein, S. Peleg, M. Karram, S. Badaan, M. Saffuri, M. Paul*

P0910 **Epidemiology of patients harbouring carbapenemase-producing bacteria versus patients with detection of extended-spectrum beta-lactamase producing Enterobacterales in a low-endemic setting: a retrospective cohort study**
I. Vock (Basel, Switzerland), L. Aguilar Bultet, A. Egli, S. Tschudin-Sutter*

P0911 **Prevalence and factors associated with the colonisation of multidrug-resistant Gram-negative bacteria in long-term care facilities in the north of Tenerife**
M. Callejón (San Cristóbal De La Laguna, Spain), R. Abreu, Y. Pedroso, M.J. Ramos, A. Madueño, B. Castro, Z. Diaz, M. Lecuona*

P0912 **Current β-lactam resistance and rates of inappropriate empirical antibiotic treatment inbloodstream infections caused by *P. aeruginosa* in haematologic patients**
*M. Chumbita * (Barcelona, Spain), P. Puerta-Alcalde, L. Yáñez, A. Bendaña López, M.A. Cuesta, A. Chinea, I. Español Morales, P. Fernández Abellán, N. Garcia-Pouton, C. Gudiol, M. Guerreiro, P. González-Sierra, R. Rojas, J.M. Sánchez Pina, I. Sánchez Vadillo, R. Varela, L. Vázquez, C. Lopera, P. Monzó, C. Garcia-Vidal*

P0913 **Is fluoroquinolone prophylaxis use associated with resistant Gram-negative bacteraemia in febrile neutropenia: a single-centre experience**
R. Tripathi (Baltimore, United States), S. Chintalapati, E. Heil, J. Bork, J. Baddley*

P0914 **Colonisation with extended-spectrum beta-lactamase-producing Enterobacterales and infection risk in patients undergoing surgery: a systematic review and meta-analysis**
E. Righi (Verona, Italy), L. Scudeller, A. Visentin, N.T. Mutters, M. Meroi, A. Schwabe, A. Erbogasto, G. Vantini, E. Cross, B. Isler, M. Mirandola, M. Giannella, X. Guirao, E. Tacconelli*

P0915 **Characterisation of co-infecting Gram-negative pathogens isolated in addition to *Acinetobacter baumannii-calcoaceticus* complex (ABC) at baseline from patients enrolled in the ATTACK phase III trial**
A. Miller (Waltham, United States), S. Mcleod, D. Chabas, G. Poirier, D. Altarac*

P0916 **Temocillin dosing in bacteraemia**
T. Kanitkar (London, United Kingdom), C. Bowman, L. Maynard-Smith, E. Wey, I. Balakrishnan*

P0917 **Bacterial diversity and predictors of poor prognosis in patients with diabetic foot infection: a ten-year cohort study**
N. Saltoglu (Istanbul, Turkey), S. Surme, A.F. Kurt, R. Karaali, I.I. Balkan, B. Caglar, A. Oner, E. Togluk Yigitoglu, B. Budak, B. Arapi, A. Seker, M.S. Gonen, O. Cetinkale*

P0918 **Contact lens associated bacterial keratitis, common organisms, antibiotic therapy and global resistance trends: a systematic review**
M. Zangiabadian (Tehran, Iran, Islamic Republic of), A. Ghaffari Jolfayi, A. Ebrahimi, S. Golmohammadi*

P0919 **Ampicillin and gentamicin treatment for early-onset neonatal sepsis: when one size does not fit all**
A. Arrieta (Orange, United States), K. Daniels, N. Ashouri, D. Nieves, B. Kushal, T. Tran, S. Osborne, T. Morphew, J. Singh*

P0920 **Utility of three-drug combinations for the treatment of carbapenem-resistant *Acinetobacter baumannii* infections among COVID-19 patients**
E.L. Heil (Baltimore, United States), K.C. Claeys, E.G. Kline, T.M. Rogers, M.F. Banoub, M.M. Noval, P.M. Luethy, R.K. Shields*

P0921 **Ecological analysis of factors associated with the prevalence of extended-spectrum beta-lactamase producing *Escherichia coli* in community-acquired urinary tract infections**
G. Birgand (Nantes, France), A. Paumier, A. Asquier-Kathi, S. Thibault, T. Coeffic, O. Lemenand, J. Caillon, D. Boutoille*

P0922 **Quantifying the effect of antibiotic resistance on the odds of receiving post-acute rehabilitation measures: a monocentric retrospective cohort study (MREHA)**
H.E.J. Kaba (Göttingen, Germany), N.K. Marzotko, L.J. Wolf, S. Scheithauer*

P0923 **Factors associated with infection relapse among patients with KPC-producing *Klebsiella pneumoniae* bloodstream infection (2017-2021) in Turin, Italy**
M. Boattini (Turin, Italy), G. Bianco, S. Comini, M. Iannaccone, R. Casale, L. Charrier, R. Cavallo, C. Costa*

P0924 **Determining the association between the acquisition of carbapenem-resistant *Enterobacteriaceae* (CRE) with prior use of different classes of antibiotics and assessing its clinical outcomes in hospitalised patients: a systematic review and meta-analysis**
A.L. Kwa (Singapore, Singapore), Y.X. Liew, N.A. Iqbal*

P0925 **Mortality of patients with extended-spectrum beta-lactamase producing *Enterobacteriaceae* bloodstream infections (ESBL-PE BSI) treated with beta-lactam/beta-lactamase inhibitors (BL-BLIs) versus carbapenems: a systematic review and meta-analysis**
A.L. Kwa (Singapore, Singapore), Y.X. Liew, G. Chiew*

PS023

3g. Spread of resistance incl reservoirs, ecology, models (excl nosocomial transmission)

P0926 **Frequency of antimicrobial-resistant Gram-negative bacilli (GNB) recovered from farm animals and pisciculture in Brazil**
F.O. Bessa-Neto (São Paulo, Brazil), M. F. Franchikoski, M. F. C. Balera, R. G. B. Da Silva, A.C. Gales, R. Cayô*

P0927 **Effect of the intensive care unit design on bacterial ecology and antimicrobial susceptibility**
K. El Menif (Ben Arous, Tunisia), H. Naija, S. Dhraief, M.A. Jaoua, S. Frigui, L. Rebai, L. Thabet*

P0928 **Colistin resistance genes in *Escherichia coli* and *Salmonella* spp. isolates from pets, wild and food-producing animals in Portugal, 2019-2021**
S. Ribeiro (Lisbon, Portugal), M. Fontes, I. Lopes, L. Silveira, A. Pista*

P0929 **Diversity of mobile genetic elements in samples of fish and bivalve mollusks from aquaculture**
V. Salgueiro (Lisbon, Portugal), V. Manageiro, N.M. Bandarra, M.J. Botelho, M. Caniça*

P0930 **Worldwide antibiotic resistance dynamics: how different is it from one drug-bug pair to another?**
E. Rahbe (Paris, France), L. Watier, D. Guillemot, P. Glaser, L. Opatowski*

P0931 **Exploring the microbiome and the diversity of antibiotic resistance genes over aquaculture**
D. Olivença (Atlanta, United States), V. Salgueiro, V. Manageiro, E. Voit, M. Caniça*

P0932 **The effect of glutaral-based disinfectant on biofilms of ciprofloxacin-resistant *P. oleovorans* recovered from washer-disinfectors for reusable medical devices**
J. Ebner (Vienna, Austria), B. Zatorska, L. Bouvier-Azula, J. Zottl, M. Van Den Nest, M. Diab-Elschahavi, E. Presterl*

P0933 **Resistance profile and genomic characterisation of mcr-1 *E. coli* isolates from different hosts: focus on production animals**
A. Martins (Porto Alegre, Brazil), R. Ramalho, L. Silvia, P. Winck, A. Barth*

P0934 **KPC-3 -, OXA-181 - and OXA-48 – producing Enterobacterales found on clinical isolates from companion animals**
J. Moreira Da Silva (Lisbon, Portugal), J. Menezes, C. Marques, A. Amaral, C. Pomba*

P0935 **Potential of environmental *Serratia* from herbicide treated soil for pathogenicity in humans**
I. Galic (Belgrade, Serbia), L. Senerovic, N. Stankovic*

P0936 **Characterisation of ESBL/pAMPc-producing *Escherichia coli* isolated from healthy companion animals and humans in Portugal and in the United Kingdom 2018-2020: a shared dynamic**
J. Menezes (Lisbon, Portugal), S.M. Frosini, J. Moreira Da Silva, A. Amaral, A. Loeffler, C. Pomba*

P0937 **Detection and characterisation of ESBL-producing *Escherichia coli* in poultry meat samples in Spain**
S. Martínez-Álvarez (Logroño, Spain), M. Gracia-Samaniego, I. Carvalho, R. Fernández-Fernández, P. Eguizábal, M. Zarazaga, C. Torres*

P0938 **Modelling the transmission of *Klebsiella* species across different One Health settings using a very large genomics dataset**
E. Feil (Bath, United Kingdom), H. Thorpe, R. Booton, T. Kallonen, M. Gibbon, N. Couto, V. Passet, J.S.L. Fernandez, C. Rodrigues, L. Matthews, S. Mitchell, R. Reeve, S. David, C. Merla, M. Corbella, C. Ferrari, F. Comandatore, S. Brisse, D. Sassera, J. Corander*

P0939 **Large-scale One Health genomic survey of third-generation cephalosporin- and carbapenem-resistant *Enterobacteriaceae* in Thailand**
N. Couto (Bath, United Kingdom), M. Gibbon, K. Cozens, P. Dulyayangkul, N. Charoenlap, S. Mongkolsuk, N. Rangkadilok, J. Satayavivad, K. Sirikanchana, T. Suriyo, B. Chantong, A. Meeyai, V. Montrivade, K. Phoonsawad, W. Sakcamduang, L. Sringernyuang, S. Suwanpakdee, K. Wichuwaranan, A. Wiratsudakul, P. Ratanakorn, N. Alhusein, R.D. Booton, V.C. Gould, H. Lambert, K.K. Reyher, H. Schubert, K.M.E. Turner, L. Vass, H. Buller, E. Pitchforth, A.C. Singer, G.M. Malijan, V. Thamlikitkul, M.B. Avison, E.J. Feil*

P0940 **Carriage of third-generation cephalosporin resistant Enterobacterales by farm animals in Hungary**
Á. Sonnevend (Pécs, Hungary), R. Meszéna, P. Urbán, R. Herczeg, Á. Boros, A. Gyenesei*

P0941 **Sewage based surveillance of antibiotic resistance in *Escherichia coli* in Bergen, Norway shows presence of resistance genes against last resort antibiotics in pathogenic strains**
N.P. Marathe (Bergen, Norway), D.H. Grevskott, V. Radisic, F.Z. Ghavidel, C.S. Svanevik*

P0942 ***Aliidiomarina shirensis* as the origin of the integron- and plasmid-mediated fosfomycin resistance gene *fosC2***
J.M. Ortiz De La Rosa (Fribourg, Switzerland), P. Nordmann, Z. Zong, L. Poirel*

P0943 **Abundance of antibiotic resistance genes in sewage-impacted waters of the Hebron stream in the West Bank, Palestinian territories**
I. Salah (Be'er Sheva, Israel), L. Abass, K. Resnick, F. Mahameed, B. Khalfin, H. Craddock, J. Moran-Gilad*

P0944 **Resistome of working dogs: a One Health perspective on antimicrobial resistance**
H. Craddock (Be'er Sheva, Israel), A. Kruk, Y. Motro, D. Grinstein, Y. Lotem-Michaeli, E. Segal, J. Moran-Gilad*

P0945 **Prevalence of *Escherichia coli* strains in water used for irrigation from east of Lima (Peru): antibiotic resistance and diarrhoegenic character**
M.J. Pons (Lima, Peru), M. Huaman Iturrizaga, G. Salvador, J.A. Luna, L. Morales Castillo, L. Velasquez Garcia, A. Tullume Mauricio*

P0946 **Non-susceptibility levels of *Escherichia coli* isolated from poultry and beef meat sold in markets of southern Lima**
F. Guibert (Lima, Peru), K. Espinoza, J. Ruiz, M.J. Pons*

P0947 **From greenhouses' environment to lettuce: unexplored sources of *Escherichia coli* carrying *mcr-1* and bla_{CTX-M} in Portugal**
A. Gomes (Porto, Portugal), C. Santos, L. Peixe, P. Antunes*

P0948 **Resistome, mobilome and virulome analysis of *Enterobacter cloacae* complex strains isolated from the water environment**
V. Manageiro (Lisbon, Portugal), R. Coelho, T. Rosado, P. Vieira, L. Reis, R. Matias, J. Rodrigues, C. Menezes, E. Ferreira, A. Sequeira, O. Moreira, E. Dias, M. Caniça*

P0949 **KPC-producing Enterobacterales from Douro River, Portugal: persistent environmental contamination by healthcare settings**
H.M.N. Ferreira (Porto, Portugal), J. Dantas Palmeira, I. Do Arte, M.M. Mersal, M. V. Cunha, C. Fonseca, R. Tinoco Torres*

P0950 **Antimicrobial resistance in environmentally-discharged wastewater and livestock samples from off-grid villages**
H. Craddock (Be'er Sheva, Israel), I. Salah, Z. Ezery, L. Abass, K. Resnick, A. Rogad, B. Khalfin, Z. Ronen, J. Moran-Gilad*

P0951 **Molecular detection of clinically-relevant antibiotic resistance fenes in the golden jackal gut**
H. Craddock (Be'er Sheva, Israel), R. Lapid, I. Salah, B. Khalfin, R. King, G.K. Bar-Gal, J. Moran-Gilad*

P0952 **Waterbirds as vectors for the spread of antimicrobial-resistant bacteria**
M. Pulido Toledano (Seville, Spain), J.M. Peralta-Sánchez, L. López-Cerero, Á. Pascual, C.M. Borrego, M.I. Sánchez*

P0953 **Raw pet food: new human transmission route for *Salmonella* 1,4,[5],12:i:- and *mcr-1* genes in Europe**
M. Ribeiro-Almeida (Porto, Portugal), M. Magalhães, J. Mourão, S. Paiva, A.R. Freitas, C. Novais, L. Peixe, P. Antunes*

P0954 **Gen-directed re-sensitisation of carbapenem-resistant microorganisms in biofilms**
D. Tortuel (Clermont-Ferrand, France), N. Charbonnel, O. Traoré, R. Beyrouthy, R. Bonnet, G. Bricheux, C. Forestier*

P0955 **Sewage-based surveillance of antibiotic resistance in *Klebsiella pneumoniae* in Bergen, Norway**
V. Radisic (Bergen, Norway), D. Grevskott, N. Marathe*

P0956 **Nosocomial clones of *Klebsiella pneumoniae* among meat specimens: hidden reservoirs of multidrug resistance**
C. Shankar (Vellore, India), Y. Muniyandi, L. Shanmugam, M. Teekaraman, P. Vasikaran, J.J. Jacob, K. Walia, B. Veeraraghavan*

P0957 **The transmission risk of multidrug-resistant organisms between pets and humans – Preliminary results of an exploratory case control study**
C. Hackmann (Berlin, Germany), P. Gastmeier, K.A.C. Genath, S. Schwarz, A. Lübke-Becker, R. Leistner*

P0958 **Quantitative comparison, based on culture, of ESBL and carbapenemases producers pre and post wastewater treatment plant in the South of Spain.**
L. Monge-Olivares (Seville, Spain), M.R. Pulido, L. Cuberos, S. Ballesta, P. Rasero, L. López-Cerero*

P0959 **An *Inu(A)*-carrying multi-resistance plasmid derived from sequence type 3 methicillin-resistant *Staphylococcus lugdunensis* may contribute to antimicrobial resistance in staphylococci**
J.J. Lu (Taipei, Taiwan, China), S.C. Chang, L.C. Lin*

P0960 **Antibiotic resistance at the human-animal interface in Southeast Asia**
M.L. Nadimpalli (Medford, United States), M. Stegger, R. Viau, V. Yith, A. De Lauzanne, N. Sem, L. Borand, B.T. Huynh, S. Brisse, V. Passet, S. Overballe-Petersen, M. Aziz, M. Gouali, J. Jacobs, T. Phe, B.A. Hungate, V.O. Leshyk, A.J. Pickering, F. Gravey, C.M. Liu, T.J. Johnson, S. Le Hello, L.B. Price*

P0961 **Hospital and community wastewaters as a source of multidrug-resistant ESBL-producing *Escherichia coli***
J. Lausova (Brno, Czech Republic), I. Sukkar, L. Gerzova Davidova, L. Nechutna, K. Vlkova, K. Chudejova, M. Dolejska*

P0962 **Metagenomic analysis of antimicrobial resistance genes in wastewaters in Benin and Burkina Faso indicates a serious health risk from untreated hospital wastewaters in low-income countries**
M. Virta (Helsinki, Finland), M. Markkanen, K. Haukka, K. Pärnänen, V. Dougnon, I. Bonkoungou, Z. Garba, H. Tinto, A. Sarekoski, A. Karkman, A. Kantele*

P0963 **Point prevalence survey of colonisation with antimicrobial resistant Enterobacterales and association with recreational water use**
M.L. Farrell (Galway, Ireland), A. Chueiri, L. O' Connor, S. Duane, L. Burke, D. Morris*

P0964 **Nocturnal birds of prey as carries of *Staphylococcus aureus*: diversity, antimicrobial resistance and clonal lineages**
V. Silva (Vila Real, Portugal), A.F. Lopes, V. Soeiro, M. Caniça, V. Manageiro, J.L. Capelo, G. Igrejas, P. Poeta*

P0965 ***Enterobacter asburiae* resistant to last line antibiotics carbapenems and colistin from wastewaters**
I. Sukkar (Brno, Czech Republic), A. Valcek, J. Lausova, M. Dolejska*

P0966 **Plasmid-mediated colistin-resistant *Escherichia coli* from meat and livestock in the Czech Republic**
P. Sismova (Brno, Czech Republic), N. Kolidentsev, J. Palkovicova, I. Chytilova, M. Dolejska*

P0967 ***In vitro* susceptibility of fosfomycin in clinical and environmental extended-spectrum β-lactamase producing and ciprofloxacin resistant *Escherichia coli* isolates**
F. Tuon (Curitiba, Brazil), C. Ito, L. Bail, V. Ribeiro, A. Andrade, P. Suss, L. Arend, K. Nogueira, F. Vicenzi, J. Telles*

P0968 **Genomic analysis of *Escherichia coli* resistant to critically important antibiotics in a gull colony shows changing dynamics and importance of longitudinal studies**
K. Nesporova (Brno, Czech Republic), M. Ruzickova, H. Tarabai, S. Krejci, M. Masarikova, J. Lausova, I. Literak, M. Dolejska*

P0969 **Computational resistome analysis of horses receiving perioperative antibiotic prophylaxis revealed AMR gene accumulation within the enteral microbiome**
S.A. Wolf (Berlin, Germany), A. Kauter, J. Brombach, A. Lübke-Becker, D.A. Kannapin, S.D. Stöckle, C. Bang, S. Franzenburg, H. Gehlen, L.H. Wieler, B. Walther, T. Semmler*

P0970 **Unexpected high prevalence of fosfomycin resistance mediated by *fos*A3 gene in third-generation cephalosporins resistant *Escherichia coli* isolated from poultry farms, broiler carcasses, and urinary tract infections in Quito, Ecuador**
D. Ayala (Quito, Ecuador), F. Villavicencio, K. Jaramillo, J. Zurita, D. Ortega-Paredes, R. Ocampo, C. Vinueza-Burgos*

P0971 **Environmental dispersion of multi-resistant *Enterobacteriaceae* in aquatic ecosystems in Osona region, Barcelona, Spain**
J. Díez De Los Ríos (Vic, Spain), M. Baldà, N. Blanco, M. Navarro, A. Vilamala, J. Serra-Pladevall, N. Párraga-Niño, S. Quero, R. López-Martínez, Ó. Mascaró, E. Reynaga*

P0972 **Extremely drug-resistant *Escherichia coli* in sewage in Kuwait: a threat to public health**
M.J. Albert (Kuwait City, Kuwait), M. Redha, N. Al Sweih*

P0973 **Co-occurrence of ESBL and PMQR genes within the German food production chain**
A. Irrgang (Berlin, Germany), J. Malekzadah, S. Schmoger, M. Grobbel, A. Kaesbohrer*

P0974 **Dynamically changing IncHI2-ST3 plasmids encoding IMP-4 carbapenemase in bacteria from silver gulls**
J. Palkovicova (Brno, Czech Republic), A. Valcek, M. Dolejska*

P0975 **Tracing of colistin-resistant *Enterobacteriaceae* in Belgian and Dutch hospitals and livestock farms using a One Health approach: a longitudinal study**
S. De Koster (Antwerp, Belgium), B.B. Xavier, C. Lammens, N. Perales Selva, S. Van Kleef-Van Koeveringe, I. Leroux-Roels, J. Dewulf, A. Stegeman, M. Kluytmans-Van Den Bergh, J. Kluytmans, H. Goossens*

P0976 **EMERGE: examining migration and the epidemiology in groups in Europe**
L. Silva (Nottingham, United Kingdom), A. Al-Oraibi, O. Hassan, L. Nellums*

PS024

3h. Policy aspects of AMR incl societal impact, economics, mitigation

P0977 **A theory driven approach to design of interventions to reduce post-operative infections and optimise antibiotic use across the surgical pathway in India**
G. Birgand (London, United Kingdom), A. Palathingal, S. Ahuja, E. Charani, N. Sevdalis, V. Namboothiri, S. Surendran, F. Edathadathil, P.B, S. Ov, P. Varma, Z. Md, C. Tarrant, A. Holmes*

P0978 **Behavioral drives and patterns of antibiotic use and misuse: a cross-sectional study in Jalal Pur Jattan Pakistan**
M.A. Tahir (Islamabad, Pakistan), M.A. Khan, I.U. Haq, A. Jabeen*

P0979 **Microbial contamination of oxygen delivery devices in a hospital in the central region of Ghana**
G. Ghartey-Kwansah (Cape Coast, Ghana), B. Amankwaa, S.D. Buabeng, A.S. Anning*

P0980 **Impact of the COVID-19 pandemic on the surveillance of antimicrobial resistance: an analysis using comprehensive national surveillance data on antimicrobial resistance**
A. Hirabayashi (Tokyo, Japan), T. Kajihara, K. Yahara, K. Shibayama, M. Sugai*

P0981 **Unlocking antibiotic prescription practices and antimicrobial resistance in primary care: a qualitative study with human and animal healthcare professionals in Brazil**
R.R. Silva-Brandao (São Paulo, Brazil), S.M. Oliveira, J.S. Correa, L.F. Zago, M.C. Padoveze, L.A. Fracolli, G. Cordoba*

Poster presentation time for **4. Diagnostic microbiology**
Monday, 25.04.2022 12:00 - 13:00

PS025

4a. Diagnostic bacteriology – culture based and general microbiology

P0982 **Key performance indicators in blood cultures from a university hospital in Uruguay**
V. Seija Scaroni (Montevideo, Uruguay), A. Molinari, R. Torres, M. Outeda, S. Munilla, R. Palacio, P. Gadea*

P0983 **Perfomance evaluation of a new ELISA test for detection of *Klebsiella pneumoniae* carbapenemase (KPC) production**
A.C. Gales (São Paulo, Brazil), A.V. Siqueira, M.A. Silva, F.F. Santos, J.M.P. Yassuda, M.F.M. Machado, R.M.F. Piazza*

P0984 **Prospective evaluation of PBP2a SA for rapid identification of MRSA from positive blood culture bottles**
I. Velimirovic (Ljubljana, Slovenia), K. Žnidar, D. Tratnik*

P0985 **Lyme neuroborreliosis: a challenge for the laboratory diagnosis**
I. Lopes De Carvalho (Lisbon, Portugal), P. Parreira, T. Luz, M.S. Gomes, S. Núncio*

P0986 **Rapid cefiderocol NP test for detection of cefiderocol susceptibility/resistance in Enterobacterales**
M. Sadek (Fribourg, Switzerland), M. Bouvier, L. Poirel, P. Nordmann*

P0987 **Comparison of four methods for the detection of toxigenic *Clostridium difficile* in a secondary care hospital in Spain**
L. Seijas Pereda (Alcalá De Henares, Spain), B. Beteré Cubillo, R. Pérez Tanoira, F. Pérez García, R. Blázquez Batanero, R. González Pérez, L. Mato Acero, P. Rubio, C. García Bertolín, P. Galicia, M. Ropero Martínez, M. Linares, J.A. Cuadros*

P0988 **Lower respiratory tract bacterial co-infections in COVID-19 patients admitted to ICU of a Romanian tertiary care hospital**
D. Talapan (Bucharest, Romania), A. Mihai, M. Popoiu, I. Badicu, A. Rafila*

P0989 **Quantification of viable bacterial load after centrifugation of spiked dilutions, and comparison of sonication fluid culture results using sonication protocol with and without centrifugation step**
A. Erbeznik (Ljubljana, Slovenia), U. Kolenc, P. Camernik, P. Maver Vodicar*

P0990 **Microbiological features of periprosthetic infections**
D. Stepanskyi (Dnipro, Ukraine), O. Ishchenko, I. Koshova, O. Horeglad*

P0991 **Evaluation of the carbapenem-resistant K.N.I.V.O. detection K-set for the rapid detection of carbapenemases among carbapenem-resistant Gram-negative bacilli**
A. Kassomenaki (Thessaloniki, Greece), A. Tychala, I. Gkeka, P. Mantzana, G. Meletis, L. Kouroudi, D. Papadopoulou, L. Skoura, E. Protonotariou*

P0992 **Improved diagnostics of *Shigella* by *Shigella*-specific PCR and modified culture technique**
C. Lindsten (Halmstad, Sweden), H. Wirdelius, D. Palmér, F. Mårtensson, A. Ljung, P. Nilsson*

P0993 **First performance of tebipenem for minimum inhibitory concentration (MIC) determination of Enterobacterales**
D. Halimi (La Balme Les Grottes, France), M. Pompilio, I. Critchley, J. Grandclement, C. Franceschi, R. Martelin*

P0994 **Utility of rectal swabs for the detection of *Clostridioides difficile* by nucleic acid amplification test and toxigenic culture**
V.G. Loo (Montreal, Canada), A.M. Bourgault, C. Frenette, N. Dendukuri, N.L. Dawang, P. Gervais, Y. Longtin*

P0995 **Sonication of vascular grafts and endografts in patients treated for vascular graft infection improves the microbiological yield**
G.L. Vlaspolder (Groningen, Netherlands), L.M. Braams, B.R. Saleem, M. Wouthuyzen-Bakker, M. Van Oosten*

P0996 **Significant increase of vancomycin-resistant *Enterococcus faecium* in a haematological ward: assessment of the prevalence from 2020 to 2021**
M. Calvo (Catania, Italy), L. Sessa, V. Costanzo, J. Giuffrida, F. Di Raimondo, E. Mauro, G. Scalia, S. Stefani*

P0997 **Evaluation of diagnostic accuracy of commercial detection system of *Coxiella burnetii* infections**
L. Mueller (Lausanne, Switzerland), A. Coste, G. Greub, A. Croxatto*

P0998 **Further development of a rapid 15-minute test using glycan-functionalised latex nanoparticles to detect Gram-negative clinical isolates from synthetic urine**
A. Olejniczak (Bristol, United Kingdom), M. Kyriakides, J.B. Vendeville, S. Rama, M. Holbrow-Wilshaw, H. Newman, M. Kou, J. Preece, N. Dorh, M. Attwood, J. Dorh*

P0999 **Use wasted time: how a portable culture device can reduce the impact of transportation times on blood cultures**
M. Gullberg (Uppsala, Sweden), J.G. Lisby, A. Ljunggren, K. Granström, I. Niklasson, E. Chantzi, H. Jansson, J. Sundqvist, H. Söderström, K. Katz*

P1000 **Temocillin susceptibility testing of AmpC-producing Enterobacterales: evaluation of three routine methods compared to broth microdilution**
K. Alexandre (Rouen, France), A. Melin, S. Dahyot, M. Pestel-Caron, C. Metot, M. Courbe, M. Etienne, F. Caron*

P1001 **Third-generation cephalosporin-resistant Gram-negative bacteraemia in patients with haematological malignancy and rationale for surveillance-culture-guided empirical therapy; results from an 11-year multi-centre retrospective study**
J.R. De La Court (Amsterdam, Netherlands), S.H.S. Woudt, A.F. Schoffelen, R.P. Schade, K.C.E. Sigaloff*

P1002 **Detection of *Actinotignum* from urine samples in the Netherlands: large variation between medical microbiological laboratories**
C.C.H. Wielders (Bilthoven, Netherlands), A.F. Schoffelen, D.W. Notermans, E.J. Kuijper, W. Altorf-Van Der Kuil, M.A. Leversteijn-Van Hall*

P1003 **Anaerobic bacteria: a point prevalence and microbiological validation of susceptibility in two Israeli hospitals**
N. Belausov (Ramat Gan, Israel), O. Kriger, M. Strauss, G. Smollen, B. Chazan, N. Lauz, S. Amit*

P1004 **Novel double-hit porcine model of acute respiratory distress syndrome for PK/PD studies**
M. Arrieta (Barcelona, Spain), E. Barbeta, A. Motos, J. Bobi, H. Yang, M. Yang, G. Tanzella, R. Cabrera, C.R. Vargas, P. Di Ginatale, S. Nogas, L. Fernández-Barat, R. Mellado, M. Rigol, G. Frigola, M. Ferrer, G. Li Bassi, A. Artigas, A. Torres*

P1005 **Diagnostic value of blood culture, 16S rDNA PCR and heart valve tissue culture in infective endocarditis for surgical treated patients: a five-year retrospective, monocentric study including 224 cases**
H. Arnold (Nuremberg, Germany), W. Geißdörfer, J. Steinmann, R. Ziegler*

P1006 **Upper airways colonisation in patients with cystic fibrosis: a potential reservoir for pulmonary infections**
C. Bianchimani (Florence, Italy), S. Campana, D. Dolce, N. Ravenni, M. Francalanci, M.C. Cavicchi, V. Galici, A.S. Neri, V. Terlizzi, D. Innocenti, G. Santini, E. Masi, B. Ferrari, C. Castellani, M. Masolini, C. Fevola, E. Camera, T. Orioli, S. Bresci, B. Borchi, A. Cavallo, J. Mencarini, G. Maggiore, G. Taccetti*

P1007 **Performance of the VITEK 2 advanced expert system (AES) as a rapid tool for reporting antimicrobial susceptibility testing (AST) in Enterobacterales**
C.G. Carvalhaes (North Liberty, United States), D. Shortridge, L.N. Woosley, N. Gurung, M. Castanheira*

P1008 **Microbiological and clinical changes following the transition to the 2010 revised CLSI breakpoints for extended-spectrum cephalosporin in Enterobacterales**
A. Adler (Tel Aviv, Israel), B. Vaknin, N. Bishouty*

P1009 **Performance of MicroScan dried Gram-negative MIC panels for Gram-negative isolates using EUCAST v11.0 interpretive criteria for -lactam combination agents & aminoglycosides**
J. Chau (West Sacramento, United States), A. Harrington, O. Garner, S. Desjarlais, R. Brookman, C. Hastey, Z. Lockett, B. Zimmer*

P1010 **The impact of sample concentration and washing on the recovery of non-tuberculous mycobacteria from sputum samples using selective culture media**
A. Perry (Newcastle Upon Tyne, United Kingdom), E. Marrs*

P1011 **Spiral microfluidics cell sorter in tandem with MALDI-TOF mass spectrometry, without overnight sub-culture, significantly reduce the turnaround time of bacterial identification from blood cultures**
T.P. Lim (Singapore, Singapore), Y.S. Ngow, L.J. Sin, K. Choi, Y. Liu, D. Yang, J.H. Sim, J. Han, A.L. Kwa*

PS026

4b. Lab management (incl automation, information, QC/QA)

P1012 **Implementation of artificial intelligence software for automated plates interpretation: validation of protocols and impact on a high-volume bacteriology lab**
S. Ambretti (Bologna, Italy), M. Cricca, C. Foschi, P. Gaibani*

P1013 **Does internal audit have an impact on the quality in a clinical microbiology laboratory?**
M.N. Skov (Odense, Denmark), J. Mikkelsen, T.G. Jensen, P. Steinicke, A. Holm*

P1014 **The effect of total laboratory automation on urine culture result times in a consolidated laboratory**
S. Daldaban Dinçer (Istanbul, Turkey), S. Aksaray*

P1015 **Factors impacting the pre-analytical quality of blood cultures: a tertiary care centre analysis**
L. Romann (Basel, Switzerland), L. Werlen, A. Hermann, I. Gisler Ries, S. Bassetti, R. Bingisser, M. Siegemund, T. Roloff, V. Muigg, V. Hinic, M. Weisser, M. Osthoff, F. Franzeck, A. Egli*

P1016 **Automated urine cytology: direct Gram examination or automated bacterial indicators?**
O. Dauwalder (Lyon, France), C. Allam, M. Hervo, M. Maillard, A. Frugier, A. Chevrot, M. Djab, A. Buathier, C. Messalti, M. Filloni, A. Barbier, D. Calabresi, P. Girardo, F. Vandenesch, C. Sobas*

P1017 **Granada or chromogenic media plates for screening of *Streptococcus agalactiae* carriage in an fully automated lab?**
O. Dauwalder (Lyon, France), C. Eymard, A. Michel, K. Santos, L. Chanel, D. Ferrandes, G. Descours, A. Tristan, F. Vandenesch, C. Sobas*

P1018 **Estimation of cost of universal MRSA screening by traditional culture-based and PCR methods**
A. Al-Hamad (Qatif, Saudi Arabia), J. Altowaileb, M. Al-Ibrahim, F. Alsubikhy, W. Alshaikh Jaffar, S. Alawami, W.U. Rahman*

P1019 **Evaluation of blood volume submitted for culture from adult patients with suspected bloodstream infections**
A. Al-Hamad (Qatif, Saudi Arabia), S. Al-Shamlan, W. Alsheikh Jaffar, H. Liskafi, M. Alsadah, S. Sheef, M. Abdrabalreda*

P1020 **Conversion from a classic microbiology laboratory to an automated one in times of pandemic: summary of the optimised integration of WASPLab® and VITEK MS**
A. Rodrigues (Lisbon, Portugal), G. Trigueiro, C. Oliveira, S. Seabra, R. Pinto, Y. Bala, M. Gutierrez, S. Vallejo, V. Gonzalez, C. Cardoso*

P1021 **Reduced incubation time of chromogenic specific medium combined with lab automation and artificial intelligence-based software for a faster time-to-result of urine specimens**
A. Francois (Mouans Sartoux, France), S. Joubert, C. Buineau, S. Sghaier*

PS027

4c. MALDI-TOF and other proteomic methods

P1022 **Development of MALDI-TOF MS based discrimination of bacterial strains within species (TYPING) for fast prediction of antibiotic resistance and for efficient detection of nosocomial transmission**
N. Versmessen (Ghent, Belgium), P. Hulpiau, M. Mispelaere, M. Vandekerckhove, C. Hermans, T. Demuyser, K. Vandoorslaer, R. Vanstokstraeten, K. Vranckx, M. Vaneechoutte, P. Cools*

P1023 **Clinical impact of MALDI-TOF MS on enterococci bacteraemia**
D. Lopes (Lisbon, Portugal), B. Grandbastien, C. Orasch, G. Greub, A. Croxatto, J.L. Pagani, G. Prod'hom, B. Guery*

P1024 **Improved identification performance for yeasts by using a commercial automated next-generation microbial identification system**
T. Maier (Bremen, Germany), M. Awad, S. Richter, B. Oberheitmann, M. Kostrzewa*

P1025 **Discrimination of *Clostridioides difficile* strains by MALDI-TOF MS using deep learning models**
A. Godmer (Paris, France), K. Le Neindre, M. Bastide, V. Latapy, A. Youssouf, R. Syed Zaidi, A. Aubry, N. Veziris, F. Barbut, C. Eckert*

P1026 **MALDI-TOF MS analysis for the identification of *Mycobacterium* chimaera: a practical approach for the clinical microbiology laboratories**
J. Bagnarino (Pavia, Italy), D. Barbarini, V. Monzillo, M. Siciliano, A. Di Filippo, E. Carretto, F. Baldanti*

P1027 **Evaluation of a novel benchtop tool for improved sample preparation for MALDI-TOF MS identification of anaerobic bacteria**
E.A. Idelevich (Greifswald, Germany), B. Nedow, K. Becker*

P1028 **Discrimination of *Bordetella pertussis* from *B. parapertussis* and *B. bronchiseptica* using lipid A extractions of bacterial colonies and subsequent MALDI-TOF MS analysis in negative ion mode**
T. Maier (Bremen, Germany), L. Gebauer, B. Oberheitmann, M. Kostrzewa*

P1029 **Comparison of two different preparation protocols for MALDI-TOF MS non-tuberculous mycobacteria identification: preliminary results**
P. Bottino (Turin, Italy), L. Pastrone, A. Curtoni, G. Criscione, F. Scaiola, M. Sorba, M. Iannaccone, R. Cavallo*

P1030 **First approach for differentiation between *Mycobacterium tuberculosis* and *Mycobacterium bovis* using MALDI-TOF MS combined with machine learning tools**
D. Rodriguez-Temporal (Madrid, Spain), F. Alcaide, N. Vila, M.J. Ruiz-Serrano, P. Muñoz, B. Rodríguez-Sánchez*

P1031 **Quality of MALDI-TOF Mass Spectra in routine diagnostics: results from an international external quality assessment including 36 labs**
A. Cuénod (Basel, Switzerland), M. Aerni, C. Bagutti, B. Bayraktar, C. Beisert Carneiro, C. Casanova, A.T. Coste, P. Damborg, D. Van Dam, M. Demirci, J. Hrabak, J. Hurych, T.G. Jensen, G. Jost, G.A. Kampinga, S. Kittl, C. Lammens, C. Lang, R. Lienhard, J. Logan, C. Maffioli, I. Marekovic, M. Marschal, J. Moran-Gilad, O. Nolte, M. Oberle, M. Pedersen, V. Pflüger, S. Pranghofer, J. Reichl, R. Rentenaar, A. Riat, B. Rodríguez-Sánchez, E. Willems, M. Wootton, D. Ziegler, A. Egli*

P1032 **Easy identification of *Nocardia* sp. by MALDI-TOF mass spectrometry by direct deposit with a single use pen**
O. Dauwalder (Lyon, France), E. Hodille, C. Prudhomme, O. Dumitrescu, Y. Benito, P. Rydström, E. Matuschek, F. Vandenesch, G. Lina*

P1033 **Performance of Easy MycoEX Method for MALDI Biotyper Identification of *Mycobacterium* Cultures from Liquid and Solid Media**
M. Timke (Bremen, Germany), E. Witt, B. Oberheitmann, M. Kostrzewa, A.B. Pranada*

P1034 **Evaluation of the MALDI-TOF mass spectrometry Sepsityper workflow for the identification of microorganisms in positive blood cultures**
M. Buttrini (Parma, Italy), A. Calderaro, M. Martinelli, S. Covan, A. Di Maio, S. Montecchini, B. Farina, M.C. Arcangeletti, C. Chezzi, F. De Conto*

P1035 **Commercial system catches *K. pneumoniae* capsular antigens**
M. Somekawa (Toyama, Japan), M. Morita, S. Okamoto, H. Niimi, Y. Morinaga*

P1036 **Evaluation of an automated instrument for MALDI-TOF spotting**
C. Murphy (Allentown, United States), E. Zarate, E. Pickering*

P1037 **Evaluating and comparing the novel "Scant Growth" method for identification of bloodstream infections**
R. Smith (Baltimore, United States), F. Gardner, J. Johnson, R. Ernst*

P1038 **Validation of a novel semi-quantitative immunoassay to differentiate bacterial versus viral infections from serum samples**
N. Ledeboer (Milwaukee, United States), A. Cruz, B. Mesich, D. Gerstbrein*

P1039 **Evaluation of the commercial kits for isolation of microorganisms from positive blood culture broths and suitability for MALDI-TOF analysis**
S. Campeau (Milwaukee, United States), B. Mesich, D. Gerstbrein, A. Cruz, M. Faron, B. Buchan*

P1040 **High frequency of multisensitive *Cutibacterium acnes* identified in clean primary implant shoulder surgeries in Brazil**
M.J. Salles (São Paulo, Brazil), M.N.L. Kurihara, I.N.M. Santos*

P1041 **Diagnostic performance of an automatic device for the preparation of the MALDI-target for microbial identification**
A. Cherkaoui (Geneva, Switzerland), A. Riat, J. Schrenzel*

P1042 **Developing two rapid protein extraction methods using focused-ultrasonication and zirconia-silica beads for filamentous fungi identification by MALDI-TOF MS**
N. Yating (Beijing, China)*

P1043 **Identification of *Mycobacterium* and *Nocardia* species by MALDI-TOF using VITEK® MS**
D. Rodriguez-Temporal (Madrid, Spain), M.E. Zvezdánova, M.J. Ruiz-Serrano, P. Muñoz, B. Rodríguez-Sánchez*

PS028

4d. Molecular diagnostics (incl POCT and syndromic testing)

P1044 **Discrepancies between RT-PCR and ID NOW test for the detection of SARS-CoV-2, retrospective study on 37,902 tests in 3 French hospitals**
T. Gueudet (Colmar, France), C. Hatard, A. Baron, C. Elong, E. Schvoerer, M. Gueudin, D. De Briel*

P1045 **A commercial blood culture identification 2 panel for rapid detection of causative agents of bacteraemia in critically ill patients: evaluation of the clinical impact**
C. Mauri (Lecco, Italy), E. Meroni, A. Consonni, N. Corbo, S. Tonolo, F. Luzzaro*

P1046 **Detection of *stx1/stx2* genes and the added value of enrichment broth for STEC cultivation**
T. Triglav (Ljubljana, Slovenia), T. Cerar Kišek, V. Cvitkovic Špik, E. Jarc, M. Kodre, M. Kolenc, I. Kovacic, N. Krošelj, E. Kvas, T. Mikuletic, K. Strašek Smrdel, I. Šest, T. Teržan, M. Pirš*

P1047 **Evaluation of a rapid molecular testing on smear-negative TB respiratory samples**
S. Esteban-Cucó (Barcelona, Spain), A. Paris, A. Suárez-López, E. Vicente, S. Diaz, J. Muñoz, N. Prim, A. Siverio, A. Vilas, E. Padilla*

P1048 **Rapid diagnostics of joint infections using molecular culture**
M.P. Bos (Amsterdam, Netherlands), L. Poort, R. Van Houdt, P.H.M. Savelkoul, A.E. Budding*

P1049 **Determining the period prevalence of *Neisseria gonorrhoeae* and *Chlamydia trachomatis* using a multiplex real-time PCR on urogenital and urine specimens submitted to Groote Schuur Hospital, Cape Town, South Africa**
C. Moodley (Cape Town, South Africa), I. Amien, H. Tootla*

P1050 **High-quality genome assemblies and biosynthetic gene clusters annotation from laboratory reference fungal strains**
N. Perera (Teddington, United Kingdom), F. Combs, N. Puthuveetil, D. Yarmosh, S. Greenfield, S. King, M. Riojas, A. Pierola, J. Bagnoli, B. Benton, J. Jacobs*

P1051 **Comparison of a routine group B *Streptococcus* (GBS) molecular testing following enrichment culture and conventional enrichment culture alone: four years of opportunistic GBS screening in pregnant women**
P. Maver Vodicar (Ljubljana, Slovenia), M. Lucovnik, U. Kolenc, P. Camernik*

P1052 **Evaluation of the diagnostic performance of a commercial pneumonia panel for microbiological diagnosis in patients with lower respiratory infections**
E. Becerril Vargas (Mexico City, Mexico), C.D. Mireles Dávalos, J.M. María Elena, M.A. Mújica Sánchez, V.F. Hernández Huizar, M.A. Durán Barrón, K. Villarral Gómez*

P1053 **Prospective evaluation of targeted next-generation sequencing of *Mycobacterium tuberculosis* complex strains in routine diagnostics in Germany**
D. Nadarajan (Sülfeld, Germany), P. Beckert, M. Kuhns, C. Utpatel, I. Barilar, V. Dreyer, F.P. Maurer, S. Niemann*

P1054 **Investigation of respiratory tract pathogens other than SARS-CoV-2 during COVID-19 pandemic in a tertiary-care hospital**
M. Demir (Istanbul, Turkey), G. Hürkal Yigitler, M. Öcal, B. Bayraktar*

P1055 **Microbial reference genome authentication and traceability**
N. Perera (Teddington, United Kingdom), D. Yarmosh, F. Combs, N. Puthuveetil, J. Lopera, S. Greenfield, S. King, M. Riojas, A. Pierola, B. Benton, J. Bagnoli, J. Jacobs*

P1056 **Pooling of plasma samples for hepatitis C RNA detection in a real-life setting as screening strategy**
A. Fuentes (Granada, Spain), A. Aguilera, L. Viñuela, M. Cea, S. Pereira, F. Garcia*

P1057 **Rapid molecular detection of central nervous system infections and its impact on antimicrobial stewardship**
L.S. Gücer (Istanbul, Turkey), S. Keske, M. Kapmaz, Y. Besli, Ö. Ergönül*

P1058 **The impact of multiplex pneumonia panel test among patients with COVID-19 in intensive care unit**
S. Keske (Istanbul, Turkey), Y. Besli, B. Kaçmaz, B. Özlüsen, B. Peltek, S. Kozan, E. Palaoglu, N. Çakar, Ö. Ergönül*

P1059 **ICU clinicians' beliefs about prescribing broad-spectrum antibiotics and attitudes towards rapid molecular diagnostics within the context of COVID-19**
A.M. Pandolfo (London, United Kingdom), S.J. Stewart, Z. Moon, Y. Jani, S. Brett, D. Brealey, S. Singh, V. Enne, D. Livermore, V. Gant, R. Horne*

P1060 **Usefulness of gene sequencing for the identification of rarely isolated pathogens**
C.K. Kim (Yongin, Korea, Republic of), J.H. Sohn*

P1061 **Evaluation of the performance of the BCID2 molecular panel for the diagnosis of complicated intra-abdominal infections**
T. Nicol (Angers, France), C. Lemarié, R. Chenouard, M. Eveillard, M. Kempf, H. Pailhories*

P1062 **Evaluation of the performance of the IAI kit molecular panel for the diagnosis of complicated intra-abdominal infections**
H. Pailhoriès (Angers, France), J. Debraux, A. Rouillard, C. Nicolleau, T. Nicol, R. Chenouard, M. Eveillard, S. Lasocki, M. Kempf, C. Lemarié*

P1063 **Detection of *Helicobacter pylori* by complementary molecular testing in culture-negative gastric biopsy specimens over a five-year period**
M. Škamperle (Ljubljana, Slovenia), U. Kolenc, P. Camernik, M. Ugrin, P. Maver Vodicar*

P1064 **Performance and cost benefit improvement of multiplex real-time PCR platform for the routine diagnosis of intestinal protozoonosis**
L. Seijas Pereda (Alcalá De Henares, Spain), B. Beteré Cubillo, A. Lora Plaza, C. Rescalvo Casas, R. Fernández Villegas, K. Sidak, J.A. Cuadros, F. Pérez García, D.A. Carmena Jiménez, L. Prieto Pérez, B. Bailo, A. Dashti, P.C. Köster, C. García Bertolín, P. Galicia, R. Pérez Tanoira*

P1065 **Fast real-time PCR for detection of *Mycobacterium tuberculosis* complex: our centre experience**
S. Sousa (Vila Real, Portugal), O. Varela, T. Carvalho, A. Fontes, P. Castro, E. Costa*

P1066 **Correlation of the BCID2 panel with phenotypic blood culture results in an Indian ICU: a single-centre retrospective observational study**
S. Shetty (Mumbai, India), C. Rodrigues, A. Sunavala, S. Basu, I. Mohammad, V. Vaidya, A. Hegde, U. Agrawal*

P1067 **Comparative study of two commercial methods for genotypic detection of *Mycobacterium tuberculosis* complex and resistance to isoniazid and rifampin**
R. Guna (Valencia, Spain), L. Aranda, M. Lamas, M. Moreno, L. Diab, M. Toval, F. Hernandez, N. Tormo, C. Salvador, D. Ocete, C. Gimeno*

P1068 **Development of a novel generation of DNA polymerases-resistant to common PCR inhibitors from clinical samples**
H. Simões (Lisbon, Portugal), V. Cardoso, V.O. Fernandes, A.F. Sequeira, I.J. Silva, J.L.A. Brás, C.M.G.A. Fontes*

P1069 **A novel generation of uracil-DNA glycosylases impair carry-over contamination in molecular diagnostic scenarios**
R. S. Simões (Lisbon, Portugal), V. O. Fernandes, I. J. Silva, J. L. A. Brás, C. M. G. A. Fontes*

P1070 **Accelerating the diagnosis of extrapulmonary tuberculosis by routine PCR testing**
F. Doucet-Populaire (Clamart, France), C. Guillet-Caruba, H. Jmel, K. Allouche*

P1071 **Looking beyond *Streptococcus pneumoniae* in culture-negative complicated pneumonia in children in Portugal (2010-19)**
J. Gomes-Silva (Lisbon, Portugal), C. Silva-Costa, M. D. Pinho, A. Friães, M. Ramirez, J. Melo-Cristino*

P1072 **Evaluation of clinical usefulness of a commercial multiplex PCR for the diagnosis of osteoarticular infections**
J. Esteban (Madrid, Spain), L. Salar-Vidal, I.T. Dianzo-Delgado, M. Martín-García, I. Lara-Plaza, I. Pereira, C. Chaves, A. Rodríguez-Fernández, P. Ruiz-Garbajosa*

P1073 **Unsuspected syphilis: is the introduction of PCR routine diagnosis useful for all genital ulcers?**
O. Algara Robles (Zaragoza, Spain), A. Milagro Beamonte, A. Tristancho Baro, E.D. Valverde-Romero, S. Nabal Diaz, L. Franco Fobe, V. Frutos Millan, N. Burillo Navarrete, S. Sanz Sanz, M.P. Peris, A. Rezusta*

P1074 **Rapid detection of plasmid-mediated AmpC-producers by a commercial assay compared to whole genome sequencing**
H. Seth-Smith (Basel, Switzerland), V. Hinic, S. Stammler, A. Egli*

P1075 **The chelex and wash (C&W) method: direct malaria nucleic acid extraction from blood**
J. Burke-Gaffney (Calgary, Canada), C. Kamaliddin, D.R. Pillai*

P1076 **Cost analysis for a commercial MTB/RIF test implementation in the tuberculosis diagnosis in Colombia**
J.M. Hernandez Sarmiento (Medellin, Colombia), J.L. Marin Cadavid*

P1077 **Same-day identification and genotypic antibiotic susceptibility testing of *Mycobacterium tuberculosis* complex and NTM from positive blood culture bottles**
A. Camaggi (Novara, Italy), M. Mantovani, M.S. Caroppo, A. Merlo, S. Andreoni*

P1078 **Reflex commercial MTB/XDR testing of residual rifampicin-resistant sputum specimens: a two-site diagnostic laboratory-based feasibility study in South Africa**
C.M. Centner (Cape Town, South Africa), T. Dolby, C. Hayes, W. Zemanay, P. Brown, R. Munir, A. David, F. Rieß, M.P. Nicol, A.J. Brink, E. Tagliani, D.M. Cirillo, M. Ruhwald, L. Scott, H. Cox, A. Penn-Nicholson*

P1079 **Direct identification of microorganisms in positive blood cultures by BioFire FilmArray Blood Culture Identification Panel leads to faster optimal antimicrobial therapy: a before-after study**
J. Agnetti (Basel, Switzerland), A.C. Buechler, M. Osthoff, F. Helfenstein, M. Weisser, M. Siegemund, S. Bassetti, R. Bingisser, D.J. Schaefer, M. Clauss, V. Hinic, S. Tschudin-Sutter, V. Baettig, N. Khanna, A. Egli*

P1080 **Comparative analysis of semen microbiota by real-time PCR and culture-based technique**
E. Voroshilina (Yekaterinburg, Russian Federation), E. Panacheva*

P1081 **Prevalence of obligate anaerobes in vaginal microbiota of women with microscopic signs of aerobic vaginitis according to real-time PCR**
E. Voroshilina (Yekaterinburg, Russian Federation), E. Plotko, D. Zornikov*

P1082 **Validation of two real-time PCR Kits for the detection of herpes virus 1, herpes virus 2 and *Treponema pallidum* in a comparative retrospective observational study**
M.P. Peris (Zaragoza, Spain), A. Milagro, B. Dehesa-García, B. Gilaberte, N. Gamadiel, D. Martínez, L. Clusa, A. Rezusta*

P1083 ***Streptococcus* B: validation of a real-time PCR kit in vagino-rectal samples from pregnant women. Comparison between culture-based method and molecular-based method**
M.P. Peris (Zaragoza, Spain), A. Milagro, B. Dehesa-García, G. Martín-Saco, A.M. Pérez, A.C. Miguel, N.F. Martínez, A. Rezusta*

P1084 **Validation of a mutiplex real-time PCR kit for the detection of *Neisseria gonorrhoeae*, *Chlamydia trachomatis*, *Mycoplasma genitalium*, *Trichomonas vaginalis*, *Ureaplasma urealyticum*, *Ureaplasma parvum* and *Mycoplasma hominis***
M.P. Peris (Zaragoza, Spain), A. Milagro, H. Alonso, Y. Gracia, B. Gilaberte, N. Gamadiel, D. Martínez, A. Rezusta*

P1085 **Comparison of different nucleic acid extraction methods based on magnetic particles for the molecular diagnosis of respiratory and gastrointestinal infections**
H. Alonso (Zaragoza, Spain), L. Pastor, C. Giménez-Rota*

P1086 ***B. pertussis*, *B. parapertussis* and *B. holmesii*, rapid detection and differentiation in one assay allows easier epidemiologic follow up of whooping cough cases**
H. Alonso (Zaragoza, Spain), M.P. Peris, C. Guijarro, E. Franco, C. Carrilero*

P1087 **Evaluation of the performance of a commercial bone and joint infection (BJI) molecular panel and comparison with standard culture methods for the detection of orthopaedic infections**
N. Reidy (Dublin, Ireland), N. Boran, F. O' Sullivan, L. Colclough, B. Lynch, M.M. Hannan, D. Brady, M. Lynch*

P1088 **Results of a commercial gastrointestinal panel and serum procalcitonin in acute colitis and infectious diarrhoea in the emergency department**
M. Cancella De Abreu (Paris, France), S. Ho, I. Cherubini, H. Enfel, D. Agnès, H. Pierre*

P1089 **Performance of a rapid STI multiplex test for the detection of sexually transmitted infections in specimens from male patients**
G.F. Lang (Vienna, Austria), I. Prayer*

P1090 **Diagnostic performance of the semi-quantitative multiplex commercial pneumonia panel for diagnostics of lower respiratory tract infections**
K.K. Søgaard (Basel, Switzerland), V. Hinic, D. Goldenberger, A. Gensch, M. Schweitzer, V. Bättig, M. Siegemund, S. Bassetti, R. Bingisser, M. Tamm, M. Battegay, M. Weisser, D. Stolz, N. Khanna, A. Egli*

P1091 **Design and development of a cartridge-based prototype assay to discriminate bacterial and viral infections based on host gene expression**
E. Wallace (Sunnyvale, United States), R. Gonzalez Baig, P. Jacobs, B. Voss, X. Lu, R. Kaldate, F. Strouts, D. Persing*

P1092 **Assessing the detection capability of molecular diagnostics using international standards and quantified control materials**
E. Amiott (Salt Lake City, United States), J. Manwaring, J. Gann, T. Neary, A. Hyer*

P1093 **Performance characteristics of an improved, fully automated, random-access influenza A, B, RSV and SARS-CoV-2 assay for influenza-like illness testing**
L. Gong (Ann Arbor, United States), B. Aguilar, P. Mateas, C. Lounds, S. Pochiraju, A. Lim, B. Gerard, S. Su, M. Mastronardi, K. Malhotra*

P1094 **Commercial test panel: a good choice for detecting ESKAPE microorganisms from direct blood samples**
L. Chaves Blanco (Granada, Spain), E. Serrano-Conde, A. De Salazar González, M.E. Yuste Ossorio, F. García García, N. Chueca Porcuna*

P1095 **Use of the commercial system for rapid diagnostics and antimicrobial stewardship**
L. Chaves Blanco (Granada, Spain), E. Serrano-Conde, A. Fuentes López, M.E. Yuste Ossorio, F. García García, N. Chueca Porcuna*

P1096 **Prevalence of pharyngeal and rectal *Chlamydia trachomatis* and *Neisseria gonorrhoeae* infections among men who have sex with men in Sofia, Bulgaria**
I. Philipova (Sofia, Bulgaria), L. Boyanova, S. Stoitsova*

P1097 **Performance characteristics of an improved, fully automated, random-access Epstein-Barr virus (EBV) qPCR assay for monitoring EBV DNA in plasma**
P. Mateas (Ann Arbor, United States), C. Lounds, L. Ouillette, H. Foley, M. Mastronardi, K. Malhotra*

P1098 **Clinical comparison of FecalSwab to Cary-Blair and unpreserved specimens on molecular enteric assays**
L. Cooper (Sparks, United States), D. Wolfe, E. Lockamy, T. Lay, T. Simner, J. Mortensen, P. Pancholi, T. Davis, S. Madison-Atenucci, D. Pillai*

P1099 **Rapid and simultaneous detection of *Campylobacter jejuni* and *Campylobacter coli* by GNRbased biosensor**
S. Shams (Qom, Iran, Islamic Republic of), B. Bita, T. Tahereh*

P1100 **Pneumococcal serotype identification by capsular sequence typing (CST): a modified novel approach for serotyping directly in clinical samples**
N. Marmaras (Athens, Greece), A. Xirogianni, A. Papandreou, P. Poulikakos, S. Simantirakis, E. Peteinaki, V. Papaevangelou, M. Tsolia, G. Tzanakaki*

P1101 **The impact of an add-on multiplex molecular assay on the management of bloodstream infections in hospitalised patients at Princess Marina Hospital in Botswana: a randomised controlled trial**
J. Pernica (Hamilton, Canada), T. Arscott-Mills, M. Mokomane, K. Lechiile, E. Botsile, T. Machiya, A. Gezmu, M. Mosepele, B. Moorad, M. Bapabi, T. Rantleru, A. Steenhoff, M. Mine, C. Walker, B. Barker, C. Sayikanmi, C. Yansouni, M. Kelly, M. Vandendorpe, A. Mace, B. Erkosar, A. Ho-Foster, S. Ongarello, L. Mazhani, S. Dittrich, D. Goldfarb*

P1102 **Outcomes of implementation of a multiplex PCR panel for meningoencephalitis in a tertiary hospital between 2017 and 2020**
T.K. Teoh (Limerick, Ireland), J. Powell, J. O'keeffe, E. Donlon, L. Dillon, M. Lenihan, A. Mostyn, P. Boers, P.J. Stapleton, N.H. O'connell, C.P. Dunne*

P1103 **Evaluation of a real-time transcription mediated amplification (RT-TMA) assay for simultaneous detection and differentiation of SARS-CoV-2, influenza A and B in clinical specimens**
I. Op Den Buijs ('s-Hertogenbosch, Netherlands), N. Runderkamp, E. Kolwijck, M. Hermans*

P1104 **Commercial meningoencephalitis panel in the diagnosis of central nervous system infections: stewardship and cost analysis in a paediatric hospital in Chile**
D. Benadof (Santiago, Chile), K. Yohannessen, P. Clement, Y. Leiva*

P1105 **Comparison of the two cartridge-based molecular assays for the rapid diagnosis of COVID-19 in a large NHS Hospital**
P.W. Bird (Leicester, United Kingdom), C.W. Holmes, J.W. Tang*

P1106 **Comparison of magnetic resonance technology to conventional blood culture for the diagnosis of bloodstream infections in haematology patients**
P.W. Bird (Leicester, United Kingdom), C.W. Holmes, C.L. Mcmurray*

P1107 **The effect of broad range PCR on antimicrobial stewardship: a single-centre experience**
N. Reidy (Dublin, Ireland), N.R. Power, R. Kivlehan, A. O' Donnell, R. Mc Wade, D. Brady*

P1108 **Clinical performance comparison of dry nasopharyngeal swab and liquid sample types using a syndromic multiplex PCR test**
G. Pueyo (Barcelona, Spain), F. Ortiz-Martínez, L. Peñarrubia, M. Juanola-Falgarona, M. Ruiz, R. Porco, C. Congost-Teixidor, M. Varo-Velázquez, S. Jiménez, E. Sala, J. Pareja, M. López-Fontanals*

P1109 **The impact of using rapid-blood-culture-identification on bloodstream infections in a developing country**
S. Castro (Rio De Janeiro, Brazil), J. Correal, M. Lago, R. Leão*

P1110 **Performance evaluation of MK buffered solution for a collection and transport system for Point-of-Care diagnostic based detection of viral RNA from human respiratory syncytial virus (RSV-A)**
D. Brazeau (Huntington, United States), T. Stevens, M. Karamchi*

P1111 **Simple, rapid, cost-effective loop-mediated isothermal amplification (LAMP) method for detection of *Ureaplasma* spp. from endotracheal aspirates of intubated neonates**
P. Jayaratne (Hamilton, Canada), J. Pernica, A. Mukerji, F. Smaill*

P1112 **Development of a LAMP-CRISPR-Cas13 technique for the detection of SARS-CoV-2 in clinical samples**
C. Ortiz-Cartagena (A Coruña, Spain), L. Fernandez-Garcia, L. Blasco, O. Pacios, I. Bleriot, M. Lopez, M. Ortega, E. Miguez, G. Vazquez-Gonzalez, R. Canton, M. Tomas*

P1113 **Optimal vaginal self-sampling devices and non-alcohol based medium for the elution of dry self-collected samples: new approach in cervical cancer prevention**
N. Muresu (Sassari, Italy), I. Sechi, A. Del Rio, M. Usai, A. Dettori, A. Cossu, M.R. Muroni, C.E. Cocuzza, M. Martinelli, A. Piana*

P1114 **Vaginal self-collection for the prevention of cervical carcinoma: the experience of the Sardinian region**
A. Del Rio (Sassari, Italy), N. Muresu, I. Sechi, M. Usai, A. Dettori, A. Cossu, M.R. Muroni, C. Cocuzza, M. Martinelli, A. Piana*

P1115 **A retrospective observational study of the impact of 16S and 18S ribosomal RNA PCR on antimicrobial treatment over seven years: a tertiary hospital experience**
T.K. Teoh (Limerick, Ireland), R. Mc Namara, J. Powell, N.H. O' Connell, C.P. Dunne*

P1116 **Automation and performance of a commercialised *Helicobacter pylori* PCR on BDmax™ system**
P. Lehours (Bordeaux, France), L. Bénejat, A. Giese, Z. Lescaudron, J. Bonnac, A. Ducournau, C. Domingues Martins, A. Blosse, E. Bessede*

P1117 **Colour and distance two-dimensional visual and homogeneous dual fluorescence analysis of pathogenic bacteria in clinical samples**
Y. Wang (Chengdu, China), P. Chen, B. Ying, Y. Xie*

P1118 **Performance of a multiplex PCR in critically ill COVID-19 patients with suspected ventilated hospital-acquired pneumonia or ventilator-associated pneumonia: a retrospective monocentric observational study**
A. Meybeck (Tourcoing, France), E. Chambe, M. Pichenot, C. Laurans, P. Herbecq, A. Vachée*

P1119 **Relationship between the CT value and the persistence of positive PCR in patients with suspected COVID-19**
M.Á. Asencio Egea (Alcázar De San Juan, Spain), J.M. López-Pintor, J. Gaitán Pitera, J.C. Méndez González, M. Huertas Vaquero, Ó. Herraez Carrera*

PS029

4e. Strain typing and surveillance (methods other than genomics)

P1120 **Genetic fingerprint of *Klebsiella pneumoniae* with chromosomal *fosA* sequence: a rapid and inexpensive method**
A.C.S. Ribeiro (São Paulo, Brazil), F.F. Santos, I.B. Moses, L.A.R. Minarini, A.C. Gales*

P1121 **Application of Fourier transform infrared spectroscopy for retrospective analysis of outbreaks of methicillin-susceptible *Staphylococcus aureus*, methicillin-resistant *S. aureus* and *Acinetobacter baumannii***
J.S. Park (Seongnam-Si, Korea, Republic of), H. Lee, K.H. Song, E.S. Kim, H.B. Kim, J. Jung*

P1122 **Species and serogroup classification of *Listeria* using transmission infrared spectroscopy**
N. Mauder (Bremen, Germany), M. Cordovana*

P1123 **Significance of rectal carriage screening for carbapenem resistance in a living donor renal transplantation setting in India**
A. Rohit (Chennai, India), R. Parthasarathy, D. I, D. V K, G. Abraham, S. Sairam, K. I*

P1124 **Genomic characterisation of *Streptococcus dysgalactiae* subspecies *equisimilis* isolates causing invasive infections in Portugal**
M.D. Pinho (Lisbon, Portugal), A.C. Castro, J. Melo-Cristino, M. Ramirez*

P1125 ***Salmonella enterica* outbreaks identification by Fourier-transform infrared spectroscopy (FTIR)**
M. Rodríguez-Iglesias (Cádiz, Spain), I. Guerrero-Lozano, T. Trujillo-Soto, R. Vela-Fernández*

P1126 **Comparative genomics and rapid molecular characterisation of *Klebsiella pneumoniae* ST1788, an otherwise uncommon strain spreading in Wales**
L. Turner (Cardiff, United Kingdom), M. Mentasti, S. David, J. Westlake, S. Mitchell, V. Daniel, G. Forbes, M. Wootton, L. Jones*

P1127 **Frequency of *Acinetobacter* species isolated from clinical samples over a two-year period**
P.G. Higgins (Cologne, Germany), T. Burgwinkel, V. Persy, B. Rahimifard, J. Wille, H. Seifert*

P1128 **Epidemiology of *Streptococcus pneumoniae* serotype 35B and first description of serotype 35D in Gipuzkoa, Spain**
M. Ercibengoa Arana (San Sebastián, Spain), M. Alonso, N. Azcue, G. Cilla, D. Vicente, J.M. Marimón*

P1129 **Using digital droplet (dd)PCR to better understand *hrp2* deletion complexity of infection**
C. Kamaliddin (Calgary, Canada), A. Aderaw, J. Burke-Gaffney, M. Tsigie, L.K. Oberding, S.M. Feleke, D.R. Pillai*

P1130 **Investigation of a carbapenemase-producing *Klebsiella pneumoniae* outbreak in an emergency intensive care unit using Fourier transform infrared spectroscopy**
J.H. Park (Seoul, Korea, Republic of), J.S. Lee, H.S. Oh, I.C. Cho, M.W. Seong, T.S. Kim*

P1131 **Impact of the introduction of the 13-valent pneumococcal conjugate vaccine (PCV13) in the National Immunization Plan, on *Streptococcus pneumoniae* carried by children in Portugal**
C. Candeias (Oeiras, Portugal), S.T. Almeida, A.S. Simões, B. Ferreira, A.R. Cruz, M. Queirós, T. Touret, A.C. Paulo, A. Brito-Avô, H. De Lencastre, R. Sá-Leão*

P1132 **New perspective on bacterial clones identification based on deep learning approach: our preliminary results**
A. Sroka-Oleksiak (Kraków, Poland), D. Ochonska, A. Borowa, D. Rymarczyk, B. Zielinski, M. Brzychczy-Wloch*

P1133 **Fourier-transform infrared spectroscopy and whole genome sequencing: tools of investigation in foodborne outbreaks (FBOs)**
M. Pitti (Turin, Italy), A. Romano, M. Cordovana, L. Ciardelli, D.M. Bianchi, D. Adriano, L. Decastelli*

P1134 **The rapid and accurate method for DNA fingerprinting for *Escherichia coli* using the constructed programme**
H. Watanabe (Toyama, Japan), S. Okamoto, M. Morita, H. Niimi, Y. Morinaga*

P1135 **Evaluation of Fourier-transform infrared spectroscopy as a rapid first-line epidemiological typing tool for vancomycin-resistant *Enterococcus faecium* outbreak analysis**
J.H. Wang Wang (Badalona, Spain), V. Saludes Montoro, M. Giménez Pérez, D. Panisello Yagüe, M.D. Quesada Fernández, A.E. Bordoy, S. Molinos Abós, L. Soler Puebla, M. Campos Ruiz, G. Clarà I Borrell, A. Tiburcio Lara, M. Navarro Albareda, M.J. García Quesada, B.J. Blanco Rojas, E. Martró Català, P.J. Cardona Iglesias*

P1136 **Analysis of an outbreak caused by extensively drug-resistant *Pseudomonas aeruginosa* using Fourier Transform InfraRed Spectroscopy (FTIR)**
A. Candela (A Coruña, Spain), M. Esteban, M. Sanchez-Cueto, E. Cercenado, M. Marin, P. Muñoz, B. Rodriguez-Sanchez, D. Rodriguez-Temporal*

P1137 **Predominance of *Clostridioides difficile* PCR ribotype 181 belonging to clade 2 in Greece, 2016-2019**
M. Kachrimanidou (Thessaloniki, Greece), S. Metallidis, O. Tsachouridou, S. Vergkizi-Nikolakaki, E. Protonotariou, D. Papadopoulou, L. Skoura, C. Harmanus, E. Kuijper*

PS030

4f. Whole genome sequencing (diagnostic, typing)

P1138 **Molecular epidemiology using local population specific references: is it worth the effort?**
M. Bezdicek (Brno, Czech Republic), M. Nykrynova, K. Dufkova, I. Kocmanova, M. Lengerova*

P1139 **Changing epidemiology of group B streptococcal infections among neonates in Portugal: 2016-2019 surveillance**
E.R. Martins (Lisbon, Portugal), M. Rodrigues, J. Melo-Cristino, M. Ramirez*

P1140 **Identification of resistance mutations in human cytomegalovirus by nanopore sequencing**
M.S. Pedersen (Copenhagen, Denmark), N.F. Petersen, A.C.Y. Nielsen, N.S. Kirkby, K. Schønning*

P1141 ***Haemophilus urinae* sp. nov., isolated from midstream urine**
M.E.J. Buhl (Nuremberg, Germany), J. Zens*

P1142 **Association between infection focus of *E. coli* bacteraemia and virulence factors**
C. Ilsby (Hvidovre, Denmark), K.H. Hansen, F. Hertz, H. Westh, J. Monk, H.K. Johansen, M. Pinholt*

P1143 ***Pseudomonas aeruginosa* ST175 high-risk clone characterisation and detection methods**
M.E. Portillo (Pamplona, Spain), A. Miqueleiz, M. Fernandez-Huerta, I. Arregui, A. Gil-Setas, C. Ezpeleta*

P1144 **Expresso Bar: a web-interface for contamination aware design of mixed multiplexed sequencing experiments**
S.H. Tausch (Berlin, Germany), D. Damar, A. Ghassemi, J. Grützke, B. Malorny*

P1145 **Role of molecular epidemiology in identification of a New Delhi metallo-β-lactamase (NDM)-producing *Escherichia coli* outbreak**
A. Shallal (Detroit, United States), R. Tibbetts, E. Chami, A. Keskimaki, S. Mcnamara, J. Gubler, T. Chevalier, D. Cunningham, G. Alangaden, G. Suleyman*

P1146 **Whole genome analysis of methicillin-resistant and susceptible *Staphylococcus aureus* CC398 isolated from patients with invasive infection**
A. Zeggay (Besançon, France), A. Atchon, B. Valot, H. Gbagui-Haore, C. Chirouze, D. Hocquet, X. Bertrand, K. Bouiller*

P1147 **Diagnostic challenges within the *Bacillus cereus*-group: finding the beast without teeth**
V. Muigg (Basel, Switzerland), A. Cuénod, S. Purushothaman, M. Siegemund, M. Wittwer, V. Pfüger, K.M. Schmidt, M. Weisser, N. Ritz, A. Widmer, D. Goldenberger, V. Hinic, T. Roloff, K.K. Soegaard, A. Egli, H. Seth-Smith*

P1148 **Development of next generation sequencing workflow for complete characterisation of respiratory mycoplasmas**
G. Maboni (Guelph, Canada), F. Isaac, C. D'andrea*

P1149 **Epidemiological investigation and comparison between phenotypic and whole genome sequencing drug susceptibility testing in *Mycobacterium tuberculosis* isolates from The Republic of Korea**
E. Ferran (London, United Kingdom), S.H. Lee, A.A. Witney, S. Ryu, H.S. Kang, N. Storey, T.D. Mchugh, G. Satta*

P1150 **Using nanopore sequencing data for bacterial core SNP analysis**
O. Aspelin (Gothenburg, Sweden), F. Dyrkell*

P1151 **Emergence of ST39 carbapenem-resistant *Klebsiella pneumoniae* producing VIM-1 and KPC-2**
C. Zarras (Thessaloniki, Greece), T. Karampatakis, S. Pappa, E. Vagdatli, E. Iosifidis, E. Roilides, A. Papa*

P1152 **The first genome sequence of unculturable *Mycoplasma faucium* obtained by *de novo* assembly of metagenomic reads**
A. Sabat (Groningen, Netherlands), E. Bathoorn, V. Akkerboom, A. Friedrich*

P1153 **Development and evaluation of a core genome multilocus sequence typing (cgMLST) scheme for *Klebsiella oxytoca***
A. García-Montaner (Seville, Spain), M.R. Pulido, Á. Pascual, L. López-Cerero*

P1154 **Genome-based analysis of colistin-resistant ST1 and ST2 *Acinetobacter baumannii* from a tertiary academic hospital in South Africa, 2019-2020**
O. Perovic (Johannesburg, South Africa), M. Lowe, A. Singh-Moodley, H. Ismail, T. Thomas, V. Chibabhai, T. Nana, W. Lowman, A. Ismail, W.Y. Chan*

PS031

4g. Microbiome studies (incl clinical and diagnostic studies, One Health aspects)

P1155 **Alterations in vaginal microbiota among pregnant women with COVID-19**
G. Ozcan (Istanbul, Turkey), E. Celik, C. Vatansever, E. Paerhati, M.A. Kuskucu, O. Dogan, S. Guler Cekic, O. Ergonul, A. Gürsoy, Ö. Keskin, F. Can*

P1156 **The respiratory microbiota alpha-diversity in chronic lung diseases: a systematic review and meta-analysis**
M. Avalos (Bordeaux, France), C. Métayer, T. Alin, R. Thiébaut, R. Enaud, D. Laurence*

P1157 **Study of endometrial microbiome in patients included in an *in vitro* fecondation (IVF) process**
S. Haim-Boukobza (Saint-Ouen-L'aumône, France), P. Celse L'hoste, M. Gama, G. Pitois, G. Delphine, D. Virginie, E. Hedbaut, M. Boullier*

P1158 **Cervical cytology and endocervical microbiome can be performed at the same time in HPV-positive patients**
S. Haim-Boukobza (Saint-Ouen-L'aumône, France), M. Gama, P. Gwendal, C. Frederic, G. Delphine, D. Virginie, H. Eric, B. Christine*

P1159 **Comparison of intestinal microbiota profiles of faecal samples, rectal swabs and mucosal biopsies in patients with inflammatory bowel disease: a multi-centre, prospective, observational study**
T. Van Rossen (Amsterdam, Netherlands), K. Van Den Hoek, A. Van Bodegraven, A. Budding, P. Savelkoul*

P1160 **Authenticated microbial reference genomes for microbiome analysis**
N. Perera (Teddington, United Kingdom), N. Puthuveetil, J. Lopera, F. Combs, D. Yarmosh, S. Greenfield, S. King, M. Riojas, A. Pierola, J. Bagnoli, D.B. Lynch, A.G. Davis-Richardson, B. Benton, J. Jacobs*

P1161 **Optimisation of DNA isolation from human stool samples for microbiome analysis**
H. Isokääntä (Turku, Finland), N. Tomnikov, S. Vanhatalo, E. Munukka, A. Hakanen, T. Kallonen*

P1162 **Modulation of archaea and crAssphage in the gut microbiota in subjects on antibiotic, augmentin with probiotics**
M.N. Rahman (Hong Kong, China), C. Li, N. Barua, J. Yang, A. Leung, K.T. Wong, N. Lo, P. Dharmaratne, C. Zhu, R. Ng, Z. Chen, G. Lui, M. Ip*

P1163 **Gut mycobiome dynamics in patients after solid organ transplantation (SOT)**
T. Freiberger (Brno, Czech Republic), K. Fiedorová, M. Radvanský, M. Vanerková, E. Blaštíková, M. Cernochová, H. Grombiříková, L. Husová, V. Mejzlík, S. Štepánková*

P1164 **Comparative study of next-generation sequencing (NGS) and quantitative culture in the aetiological diagnosis of community-acquired pneumonia (CAP)**
D.A. Vazquez Sanchez (L'Hospitalet de Llobregat, Spain), S. Martí, C. Ardanuy, M. Domínguez, L. Calatayud*

P1165 **Genomic, virulence and antimicrobial resistance features of putative new species of the genus *Corynebacterium* in the female urogenital microbiota**
E. Cappelli (Porto, Portugal), M. Ksiezarek, S. Ugarcina Perovic, T.G. Ribeiro, L. Peixe*

P1166 **Analysis of vaginal microbiota of Japanese patients with infertility treatment**
A. Matsumoto (Aichi, Japan), Y. Yamagishi, S. Takahashi, K. Miyamoto, A. Minemura, D. Miura, K. Oka, M. Takahashi, H. Mikamo*

P1167 **Pulmonary microbiome in SARS-CoV-2 patients at ICU admission**
J.M. Marimón (San Sebastián, Spain), A. Sorarrain, M. Ercibengoa, N. Azcue, M. Alonso, L. Vidaur*

P1168 **Microbiome and resistome characteriSation of patients colonised with carbapenem-resistant Enterobacterales by metagenomic next-generation sequencing of rectal swabs**
J. Fissel (Los Angeles, United States), Y. Bergman, D.M. Walsh, B. Fanelli, K. Arogyaswamy, P.J. Simner*

P1169 **Nasal microbiome composition in ICU patients and MRSA and CRE colonisation in ICU patients in Colombia**
J.V. Martinez Janne (Bogotá, Colombia), F.O. Guevara Pulido, C.A. Arias, J.R. Reyes, L.D. Diaz, S.R. Rincon, R.R. Rios, B.C. Castro*

P1170 **Evaluation of different stool collection devices for gut microbiome analysis**
S. Forrest (Bristol, United Kingdom), M. Castro-Camargo, A. Theodoridou, M. Johnson, E. Natan, H. Bacchus*

P1171 **Comparative faecal microbiota analysis of infants with acute bronchiolitis caused or not caused by respiratory syncytial virus**
F. De Maio (Rome, Italy), D. Buonsenso, D.M. Bianco, M. Di Giamo, B. Fosso, F.R. Monzo, M. Sali, B. Posteraro, P. Valentini, M. Sanguinetti*

P1172 **Lung microbiome in critical care: evolution and risk factors of ventilator-associated pneumonia**
M. Fromentin (Paris, France), J. Mullaert, A. Bridier-Nahmias, S. Mercier Delarue, C. Vuillard, A. Alberdi, J. Do Vale, N. Ranger, M. Salmona, J. Le Goff, J.D. Ricard, D. Roux*

P1173 **Comparison of three selected primers pairs covering different regions of the ITS sequence for analysis of the gut mycobiome using NGS sequencing**
A. Krawczyk (Kraków, Poland), A. Sroka-Oleksiak, D. Salamon, A. Gurgul, T. Gosiewski*

P1174 **Association between symptoms and microbiome dysbiosis in COPD exacerbations**
L. Fernández-Barat (Barcelona, Spain), R. Lopez-Aladid, L. Bueno-Freire, A. Ceccato, A. Torres, N. Soler*

P1175 **Stochasticity drives bacterial community assembly in paediatric Crohn's disease**
A. Frau (Liverpool, United Kingdom), U. Ijaz, R. Slater, S. Belnour, G. Hold, A. Bond, L. Lenzi, S. Allen, C. Probert*

P1176 **Impact of COVID-19 lockdown in nasopharyngeal microbiota in children and adults in the metropolitan area of Barcelona, Spain**
M. Rocafort (Barcelona, Spain), D. Henares, P. Brotons, C. Launes, V. Fumadó, M. Fernández De Sevilla, C. Fortuny, J.J. García, E. Gratacós, Q. Bassat, I. Jordán, C. Muñoz-Almagro*

P1177 **The gut microbiota in patients with polycythemia vera compared with healthy controls**
C.S. Eickhardt-Dalbøge (Slagelse, Denmark), A.C. Ingham, L.O. Andersen, H.V. Nielsen, K. Fuursted, R. Stensvold, M.K. Larsen, K. Lasse, S.F. Christensen, T.A. Knudsen, V. Skov, C. Ellervik, H.C. Hasselbalch, X.C. Nielsen, J.J.E. Christensen*

P1178 **Dependence of gut colonisation by *Candida* on the Crohn's disease activity**
A. Krawczyk (Kraków, Poland), D. Salamon, K. Kowalska-Duplaga, K. Drozdz, T. Gosiewski*

P1179 **Detection and identification of microorganisms using a random-access next-generation sequencing workflow**
X.Y. Ho (Singapore, Singapore), C.C. Chin, C.V. Villy, B. Han, A. Wong, I.Z. Zhu, N. Djunaidi, I. Ng, H. Suhardi, A.W. Kyaw, L. Kok, P. Ariyaratne, W.K. Lye, M.K.K. Aye, C. Lee*

P1180 **Assessment of the gastric and duodenal mucosa-associated bacteria of children and adolescents with newly diagnosed celiac disease compared to the control group using NGS sequencing**
D. Salamon (Kraków, Poland), K. Kowalska-Duplaga, A. Krawczyk, Z. Grzenda-Adamek, A. Sroka-Oleksiak, A. Gurgul, T. Gosiewski*

P1181 **Preliminary strategy using scanning electron microscopy coupled to artificial intelligence for automated screening and microbe classification**
J. Bou Khalil (Marseille, France), G. Haddad, S. Bellali, H. Hattori, Y. Kakishita, A. Ray, R. Francis, A. Fontanini, F. Di Pinto, A. Hisada, Y. Ominami, J.P. Baudoin, D. Raoult*

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4h. Clinical metagenomics

P1182 **The effect of daily usage of a commercial mouthwash on the pharyngeal microbiome**
J. Laumen (Antwerp, Belgium), C. Van Dijck, S. Manoharan-Basil, T. Block, S. Abdellati, B. Xavier, S. Malhotra Kumar, C. Kenyon*

P1183 **Pathogen surveillance by mNGS for intubated patients: a reflex to culture model**
A. Craney (Orlando, United States), P. Kavaliauskas, B. Kuklinska, L. Vasovic, S. Vaca, I. Estabrooke, J. Rossen, R. Schlaberg*

P1184 **Developing metagenomics workflows for unbiased detection of DNA and RNA viruses in respiratory samples**
A. Alcolea-Medina (London, United Kingdom), M. Wilks, T. Charalampous, L. Snell B., S. Neil, P. Cliff R., J. D. Edgeworth*

P1185 **Next-generation sequencing for routine identification of non-tuberculous mycobacteria**
J.P.M. Coolen (Nijmegen, Netherlands), J. Schildkraut, H. Severin, W.J.G. Melchers, W. Hoefsloot, H.F.L. Wertheim, J. Van Ingen*

P1186 **Optimising conditions for rapid metagenomics screening of multidrug-resistant pathogens**
S. Purushothaman (Basel, Switzerland), M. Meola, S. Heller, D. Nogarth, T. Roloff, A. Egli*

P1187 **Optimised 16S metagenomics versus shotgun metagenomics with long-read sequencing technology for diagnostic use**
A. Björnberg (Örebro, Sweden), N. Peker, J.L. Tison, M. Ekström, D. Nestor, B. Stenmark, B. Sinha, N. Couto, J. Rossen, M. Sundqvist, P. Mölling*

P1188 **Precision metagenomics for broad detection of genitourinary pathogens and associated antimicrobial resistance markers**
C. Gonzalez (Salt Lake City, United States), M. Mangifesta, R. Stinnett, K. Broadbent, A. Hanson, K. Arora-Williams, J. Rossen, E.A. Kim, J. Lemon, R. Schlaberg*

P1189 **Analytical performance of a precision metagenomic approach for pathogen detection in urinary tract infections**
M. Mangifesta (Salt Lake City, United States), K. Broadbent, G. Silva, R. Stinnett, A. Hanson, A. Kadam, J. Rossen, J. Lemon, R. Schlaberg*

P1190 **Evaluation of synovial fluid 16S rRNA gene-based sanger and next-generation sequencing for periprosthetic joint infection diagnosis**
J. Hemenway (Rochester, United States), L. Flurin, M. Wolf, M. Daniels, M. Mutchler, M. Abdel, R. Patel*

P1191 **Targeted metagenomics on whole blood and plasma for early pathogen detection in infective endocarditis: a pilot prospective study**
L. Flurin (Rochester, United States), M. Wolf, E. Cano-Cevallos, D. Desimone, R. Patel*

P1192 **Evaluation of the respiratory pathogen ID/AMR panel workflow compared to standard of care for the diagnosis of lower respiratory tract infections**
D. Gaston (Baltimore, United States), H. Miller, J. Fissel, K. Carroll, P. Simner*

P1193 **Direct-from-blood culture metagenomic sequencing provides accurate species identification faster than routine methods**
K.N. Govender (Oxford, United Kingdom), D. Crook, D.W. Eyre*

P1194 **Optimisation of DNA extraction protocol for Illumina Miseq-based 16S rRNA gene sequencing for identification of bacterial pathogens in patient samples**
S.V. Høgh (Odense, Denmark), S.L. Larsen, K.G. Thomsen, K. Steinke, T.V. Sydenham, M.N. Skov*

P1195 **Optimising nanopore pre-sequencing, sequencing, and post-sequencing protocols for real-time surveillance of antimicrobial resistance in a tertiary referral centre**
I. Akintayo (Freiburg, Germany), A. Afolayan, L. Duarte Dos Santos, S. Ayala Montaño, H. Ghosh, S. Reuter*

P1196 **Next- and third-generation sequencing outperforms culture-based methods in diagnosis of ascitic fluid bacterial infections of ICU patients**
M.T. Badr (Freiburg, Germany), S. Wetzel, H. Goelz, N. Mehrbarzin, U. Stefan, G. Häcker*

PS033

4i. Bioinformatics tools & pipelines

P1197 **P-DOR: a pipeline to disentangle outbreaks rapidly**
S. Gaiarsa (Pavia, Italy), G. Batisti Biffignandi, G. Petazzoni, G. Bellinzona, D. Di Carlo, M. Corbella, F. Comandatore*

P1198 **The virulome, a heterogeneous concept? Comparison of virulence factors and their conservation**
T. Pillonel (Lausanne, Switzerland), C. Bertelli, F. Tagini, G. Greub*

P1199 **MeSS: a metagenomic sequence simulator for *in silico* sample generation**
C. Bertelli (Lausanne, Switzerland), F. Chaabane, T. Pillonel*

P1200 **Infection metallomics for critical care in the post-COVID-19 era**
V. Havlícek (Prague, Czech Republic), R. Patil, D. Luptáková*

P1201 **Is simple better than complex? Comparison of bioinformatic pipelines for rapid and straight forward interpretation of nanopore whole genome sequenced bacterial isolates**
H.V. Aamot (Lørenskog, Norway), K. Helmersen, F.A. Ferreira, A. Blomfeldt*

P1202 **Bioinformatic prediction of highly specific surface bacterial proteins: potential biomarkers in a lateral flow assay for bovine mastitis diagnosis**
A. Dobrut (Kraków, Poland), A. Mlodzinska, J. Sobonska, A. Tabacki, U. Mroczkowska, M. Brzychczy-Wloch*

P1203 **An externally validated machine learning model predicts the outcome of blood cultures in the emergency room and safely reduces their overuse**
M. Schinkel (Amsterdam, Netherlands), A.W. Boerman, F.C. Bennis, T.C. Minderhoud, H. Peters-Sengers, R. Schade, R. De Jonge, W.J. Wiersinga, P.W.B. Nanayakkara*

P1204 **Fast and accurate pathogen identification with NGS 16S amplicon analysis in the cloud**
D. Arnellos (Gothenburg, Sweden), M. Vondracek, F. Dyrkell*

P1205 **BacARscan: a comprehensive and interactive web resource to discern antibiotic resistance gene diversity in -omics datasets**
D. Pandey (New Delhi, India), N. Singhal, M. Kumar*

P1206 **Real-time MLST genes detection in nanopore squiggles**
M. Nykrynova (Brno, Czech Republic), R. Jakubicek, M. Bezdicek, K. Dufkova, M. Lengerova, H. Skutkova*

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4j. Other novel diagnostic technologies

P1207 **An evaluation into the use of procalcitonin levels as a biomarker of bacterial infection to aid the management of intrapartum pyrexia and chorioamnionitis: a prospective observational cohort study**
I. Harding (Bristol, United Kingdom), S. Walker, K. Soomro, A. Bamber, R. Liebling*

P1208 **Reproducibility of fully automated AST for direct AST in near-patient testing**
M. Myzithra (Uppsala, Sweden), Ö. Baltekin, P. Hammar, P. Kovachev, E. Wistrand-Yuen*

P1209 **Rapid method for visual detection of FosA-like enzymes activity using gold nanoparticles**
J.M. Ortiz De La Rosa (Fribourg, Switzerland), P. Nordmann*

P1210 **A new histomicrobiological approach to the study of skin biopsy in the severe burns: Algerian experience**
M.A. Abdouni (Algiers, Algeria), S. Oukid, M. Metref*

P1211 **A novel magnetic bead-based extraction method for the molecular detection of antimicrobial resistance genes in fresh water**
R. Byrne (Liverpool, United Kingdom), D. Cocker, G. Alyayyoussi, M. Mphasa, M. Charles, T. Mandula, C. Williams, J. Hearn, E. Adams, N. Feasey, T. Edwards*

P1212 **D-lactate in synovial fluid, a novel pathogen-specific biomarker of periprosthetic joint infection: preliminary results from a prospective multi-centre study**
P. Morovic (Berlin, Germany), C. Schäfer, S. Kirschbaum, S. Meller, M. Riklin-Dold, M. Fuchs, C. Perka, A. Trampuz, S. Karbysheva*

P1213 **The diagnostic power of the biofilm ring test in patients with *Pseudomonas aeruginosa* respiratory infection**
N. Vázquez (Barcelona, Spain), L. Fernandez-Barat, V. Alcaraz, L. Bueno, R. López-Aladid, R. Cabrera, A. Gabarrús, A. Palomeque, P. Oscanoa, A. Ceccato, A. Motos, R. Amaro, T. Bernardi, C. Provot, L. Muñoz, J. Vila, A. Torres*

P1214 **Multi-centre trial of a commercial liquid-culture assay versus ISO-11731:2017 plate-culture methods for the isolation and detection of *Legionella pneumophila* in healthcare water systems**
S. Ali (London, United Kingdom), K. Karia, S. Yui, M. Muzslay*

P1215 **Comparison of Simoa *Clostridioides difficile* quantitative toxins A and B assays with standard *C. difficile* assays**
V.G. Loo (Montreal, Canada), A. Banz, N. Dendukuri, N.L. Dawang, C. Frenette, A.M. Bourgault, M. Miller, P. Gervais, Y. Longtin*

P1216 **Reinventing multiplex PCR assay development: intelligent algorithm for detection of respiratory pathogens using a single fluorescent channel**
L. Miglietta (London, United Kingdom), Y. Chen, A. Moniri, F. Bolt, K. Hill-Cawthorne, A. Holmes, P. Georgiou, J. Rodriguez-Manzano*

P1217 **Molecular imaging in the lung: morphological and FLIM identification of Gram-positive bacteria with an activatable chemical imaging agent and bespoke imaging system**
E. Gaughan (Edinburgh, United Kingdom), A. Ali, T. Quinn, H. Stewart, E. Duffy, C. Lochenie, M. Vendrell, G. Williams, N. Finlayson, J. Stone, K. Dhaliwal, B. Mills*

P1218 **Evaluation of an interferon-gamma release test for the diagnosis of tuberculosis infection**
M.A. Boquera Albert (Zaragoza, Spain), J. Sahagún Pareja, F.J. Alcón Flores, M. Riesgo Magaña, M.P. Tormes Ponz, M.A. Ruiz Andrés, R. Benito Ruesca*

P1219 **Analytical performance of the automated accelerate Arc BC kit and module for direct identification from positive blood cultures using MALDI**
C. Michel (Tucson, United States), A. Campos-Alvarez, S. Bolanos, K. Lank, R. Nyberg, S. Campeau*

P1220 **COVID-19 driven increase and sustained interest in home collection for sexually transmitted infection testing: challenges and opportunities**
J. Melendez (Baltimore, United States), T. Yu, G. Armington, C. Gaydos, M. Hamill, Y. Manabe*

P1221 **Comparative evaluation of two interferon gamma releasing assays for laboratory diagnosis of latent tuberculosis**
A. Pocognoli (Ancona, Italy), C. Piersimoni, M. Pavani, F. Orecchioni, D. Trotta, A. Masucci, M. Moretti*

P1222 **Streamlining urine processing with modular automation: a French experience with CPSE media**
J.M. Bidan (Dijon, France), N. Rivoire, L. Munier, C. Alcaraz*

P1223 **Evaluation of the APAS independence with chromogenic MRSA media using MRSA analysis module at NHS William Harvey Hospital**
B. Sloan (Kent, United Kingdom), M. Dawson, R. Arkley*

P1224 **Artificial intelligence and diagnostic microbiology: comparison the APAS independence using chromogenic UTI media analysis module with routine plate-in-hand with traditional CLED media at NHS William Harvey Hospital**
B. Sloan (Kent, United Kingdom), M. Dawson, R. Arkley*

P1225 **Utility of a 29-mRNA host-response assay, together with PCR-based rapid pathogen diagnostics to identify pneumonias in intensive care unit (ICU) patients**
V. Enne (London, United Kingdom), Z. Dhesi, D. Brealey, J. High, V. Gant, M. De Neef, V. Page, H. Kandil*

P1226 **A fast direct detection of resistance from urine samples using VITEK2**
C. Garcia Riestra (Santiago De Compostela, Spain), E. Torres-Sangiao, B. Lamas Rodriguez, M. Cea Pájaro, N. Parajó Pazos, A. López Fernández*

P1227 **Use of Fourier Transform InfraRed Spectroscopy (FTIR) for the analysis of an outbreak by carbapenem-resistant *Klebsiella oxytoca***
A. Candela (A Coruña, Spain), M. Esteban, M. Sanchez-Cueto, E. Cercenado, P. Muñoz, B. Rodriguez-Sanchez, D. Rodriguez-Temporal*

P1228 **Use of Raman spectroscopy for identification of microorganisms from human body fluids**
K. Rebrošová (Brno, Czech Republic), S. Bernatová, M. Šiler, O. Samek, J. Ježek, J. Mašek, V. Holá, F. Ružicka*

P1229 **The diagnostic values of peptidoglycan, lipopolysaccharide and (1,3)-β-D-glucan in patients with suspected bloodstream infection: a single-centre, prospective study**
Y. Zhao (Beijing, China), Z.Y. Wang, X.D. Zhang, Y. Wang, W.H. Yang, Y.C. Xu*

P1230 **Rapid bacteriophage susceptibility testing at phage therapy unit Helsinki, Finland**
S. Patpatia (Helsinki, Finland), L. Paasonen, M. Skurnik, S. Kiljunen*

P1231 **Oral swab sample collection and processing for tuberculosis detection among adults with cough for more than two weeks in Kampala, Uganda**
A. Andama (Kampala, Uganda), G. Whitman, R. Crowder, T. Reza, D. Jaganath, J. Mulondo, T. Nalugwa, F. Semitala, E. Wobudeya, M. Swomitra, W. Worodria, C. Denkinger, P. Nahid, G. Cangelosi, A. Cattamanchi*

P1232 **Scanning electron microscopy in clinical microbiology: the comeback**
J. Bou Khalil (Marseille, France), G. Haddad, S. Bellali, A. Fontanini, A. Hisada, Y. Ominami, D. Raoult*

P1233 **Structural characteristics and changes of specific gut microbiome in patients with lung cancer**
X. Lu (Chengdu, China), Y. Xie*

P1234 **Adapted protocol for Saccharibacteria co-cultivation: two new members joined the club of Candidate Phyla radiation**
A. Ibrahim (Marseille, France), M. Maatouk, A. Rajaonison, R. Zgheib, G. Haddad, J. Bou-Khalil, D. Raoult, F. Bittar*

Poster presentation time for **5. New antibacterial agents, PK/PD & stewardship** Sunday, 24.04.2022 12:00 - 13:00

PS035

5a. Mechanisms of action, new compounds, preclinical data & pharmacology of antibacterial agents

P1235 **Discovery of a novel allosteric inhibitor PK-188 targeting New Delhi metallo-β-lactamases**
P. Kavaliauskas (New York, United States), D. Tondi, L. Cendron, B. Grybaite, K. Anusevicius, V. Mickevicius, R. Petraitiene, P. Norvaisas, G. Kamuntavicius, O. Bastas, T. Yang, S. Macer, R. Tal, Z. Jocys, A. Prat, A. Craney, V. Petraitis*

P1236 **Polymyxin B in murine lung: investigating pharmacodynamics and *in vivo* spatial pharmacokinetics using matrix-assisted laser desorption ionisation mass spectrometry imaging (MALDI MSI)**
S. Boyd (Liverpool, United Kingdom), J. Harris, N. Farrington, A. Johnson, L. Mcentee, A. Jimenez-Valverde, J. Unsworth, W. Hope*

P1237 ***In vitro* activity of VRP-034 against metallo-beta-lactamases producing Gram-negative pathogens responsible for human infections**
A. Aggarwal (Baddi, India), A. Payasi, S. Kumar, S. Chaudhary*

P1238 **Evaluation of phagotherapy in the treatment of ESBL urinary tract infection in a mouse model**
Q. Le Bastard (Nantes, France), M. Blanchet, E. Batard, E. Montassier*

P1239 **Pharmacodynamics of meropenem against Enterobacterales producing *bla*$_{OXA-48}$ with low meropenem minimum inhibitory concentrations**
S. Boyd (Liverpool, United Kingdom), A. Johnson, L. McEntee, N. Harper, J. Unsworth, A. Jimenez-Valverde, L. Barrera-Briceno, F. Healy, X. Liu, W. Hope*

P1240 **Synergistic activity of a new gold(III) complex (UAL267) with clinical antibiotics against multidrug-resistant pathogens**
C. Ratia (Barcelona, Spain), R. Soengas, Y. Navarro, M.J. Iglesias, F. López-Ortiz, S. Soto*

P1241 **Targeting membrane transport and energy metabolism for the identification of new drugs for *Neisseria gonorrhoeae***
L. Rodrigues (Lisbon, Portugal), A. Pina, F. Pereira*

P1242 **Mode of action of tomatidine C3-diastereoisomers**
J.P. Langlois (Sherbrooke, Canada), A. Larose, V. Steimle, S. Chamberland, J.A. Delbrouk, P.L. Boudreault, F. Malouin*

P1243 **Discovering new drugs with antimicrobial and antibiofilm effect against *Pseudomonas aeruginosa* from cystic fibrosis patients: a drug repurposing approach**
A. Pompilio (Chieti, Italy), V. Lupetti, G. Di Bonaventura*

P1244 **Therapeutic oligonucleotides activated by nucleases (TOUCANs) as first in class targeted antibiotics**
B.A. Borsa (Linköping, Sweden), L.I. Hernandez, T. Jimenez, C. Tellapragada, C. Giske, F.J. Hernandez*

P1245 **Bacterial biofilm inhibition with combined photodynamic therapy of Cl-hemicyanine**
N. Atac (Istanbul, Turkey), K. Bilici, M. Khan, F.K. Cooper, S. Kolemen, A. Sennaroglu, F. Yagci Acar, F. Can*

P1246 **Phage lysin LysK: a specific natural targeting protein for *Staphylococcus aureus***
M. Ferreira (Lisbon, Portugal), S.I. Aguiar, M. Pinto, M.M. Gaspar, C. São-José, F. Aires-Da-Silva*

P1247 **Targeted ciprofloxacin treatment of ciprofloxacin resistant UTI *E.coli***
N. Atac (Istanbul, Turkey), K. Bilici, I. Koc, M. Khan, O. Dogan, A. Sennaroglu, F. Yagci Acar, F. Can*

P1248 **Stability of bacteriophage preparations before therapeutic application in patients with chronic rhinosinusitis and musculoskeletal infections**
S. Uyttebroek (Leuven, Belgium), J. Onsea, B. Chen, J. Wagemans, C. Lood, L. Van Gerven, I. Spriet, D. Devolder, Y. Debaveye, M. Depypere, L. Dupont, P. De Munter, W.E. Peetermans, V. Van Noort, M. Merabishvili, J.P. Pirnay, R. Lavigne, W.J. Metsemakers*

P1249 **Tranexamic acid in combination with vancomycin or gentamicin showed a synergistic effect against staphylococci**
M. Díaz (Madrid, Spain), A. Benjumea, M. Guembe, R. Hafian, M. Sánchez-Somolinos, F. Chana, P. Muñoz, J. Vaquero*

P1250 ***In vitro* activity of two novel antimicrobial compounds on MDR-resistant clinical isolates**
M. Rima (Le Kremlin-Bicêtre, France), K. Cirnski, S. Oueslati, N. Pfennigwerth, J. Herrmann, R. Müller, T. Naas*

P1251 **Exploiting bacterial phage resistance trade-offs in *Pseudomonas aeruginosa* for the design of bacteriophage cocktails**
F. Kunisch (Berlin, Germany), K. Mirza, S. Yildirim, J. Wagemans, B. Chan, L. Thieme, R. Lavigne, P. Turner, A. Trampuz, M. González Moreno*

P1252 **Peptides produced by lactic acid fermentation as novel antimicrobial and anti-inflammatory alternatives**
M.I. Santos (Lisbon, Portugal), J. Mota, C. Marques, L. Pedroso, I. Sousa, R. Ferreira, A. Lima*

P1253 **Antimicrobial and tissue regeneration profile of VG111: a novel natural compound with potential wound healing efficacy**
V. Gautam (Chandigarh, India), L. Singhal, Y.S. Malik, R.K. Verma, N. Singh, P. Kaur, I. Singh, R. Kumar, N. Shekhar, K.A. Singh*

P1254 **Transcriptomic analysis of the *Clostridioides difficile*-targeting antimicrobial ridinilazole implicates disruption of energy-generation pathways as its mechanism of action**
C. Coward (Cambridge, United Kingdom), C.S. Mason, T. Avis, N. Nagalingam, M. Mudaliar, E. Duperchy, K.R. Fox, D.J. Powell*

P1255 **Isolation and characterisation of bacteriophages from hospital wastewater active against multidrug-resistant nosocomial Gram-negative pathogens**
I. Roca (Barcelona, Spain), K. Rosales, S. Nuñez, M. Piquet, L. Muñoz, A. Vergara, C. Casals-Pascual, J. Vila, C. Pitart*

P1256 ***In vitro* bactericidal activity of NOSO 502: a novel action odilorhabdin antibiotic**
M. Attwood (Bristol, United Kingdom), A. Noel, E. Racine, M. Gualtieri, A. Macgowan*

P1257 **Identification and characterisation of new compounds as anti-tuberculotics**
V. Sonawane (Borstel, Germany), A. Lacour, A. Hirsch, N. Reiling*

P1258 **Antibacterial interactions of NOSO-502 studied by checkerboard method using combinations with amikacin, ciprofloxacin, colistin, meropenem and tigecycline against Enterobacterales**
M. Attwood (Bristol, United Kingdom), A. Noel, E. Racine, M. Gualtieri, C. Leroi-Geissler, A. Macgowan*

P1259 **A novel role for the CAAX protease, SilX in the bacteriocin production of *Streptococcus anginosus***
V. Vogel (Ulm, Germany), M. Fuchs, A. Bitzer, M. Jachmann, J. Muench, B. Spellerberg*

P1260 **Label-free quantitative proteomic reveals the broad anti-toxin activity of BV200 anti-virulent agents against *Staphylococcus aureus***
V. Trebosc (Basel, Switzerland), M. Antelo-Varela, J. Schill, A. Michelotti, M. Gitzinger, G.E. Dale, M. Bourotte, O. Defert, M. Pieren, A. Trauner, A. Schmidt, D. Bumann, S. Lociuro*

P1261 ***In vitro/ex vivo*** **activity of avermectin derivatives against clarithromycin-resistant *Mycobacterium avium* subsp. *hominissuis***
H. Fukano (Tokyo, Japan), A. Kato, T. Hirose, M. Iwatsuki, T. Sunazuka, Y. Hoshino*

P1262 **Simultaneously inactivating three or all four penicillin-binding proteins (PBPs) among PBP1a, 1b, 2 and 3 synergistically kills *Acinetobacter baumannii* (AB)**
C. Werkman (Orlando, United States), N.R. Shah, D. Deveson Lucas, J.L. Oyer, M. Megroz, B. Moya, A.R. Sayed, A.S. Elsayed, A. Wright, D.S. Sutaria, X. Tao, Y. Lang, J. Zhou, E. Shin, C.B. Landersdorfer, R.H. Jimenez-Nieves, K.C. Cadet, Y. Jiao, A.J. Copik, R.A. Bonomo, A. Louie, G.L. Drusano, J.D. Boyce, J.B. Bulitta*

P1263 **First whole-cell penicillin-binding protein (PBP) binding profiles of carbapenems and cefoxitin in *Klebsiella pneumoniae* (KP): characterising the mass balance of penetration and binding in periplasm**
A.R.M. Sayed (Orlando, United States), A.A.S. Elsayed, N.R. Shah, D.S. Sutaria, B. Moya, Y. Lang, E. Shin, J. Zhou, C. Werkman, B. Tsuji, A. Louie, G.L. Drusano, J.B. Bulitta*

P1264 **Evaluation of the antimicrobial and anti-biofilm properties of skullcap, red grape skin and soya isoflavones**
G. Efthimiou (Hull, United Kingdom), M. Begum Miah, E. Cattle, A. Garcia, R. Ham, H.S. Jones*

P1265 **Antibioswitch: a selective treatment for *Staphylococcus aureus* infections**
G. Millette (Sherbrooke, Canada), E. Lacasse, R. Binette, D. Lafontaine, F. Beaudry, D. Rico, P.L. Boudreault, F. Malouin*

P1266 **First-time isolation and characterisation of lytic bacteriophages against Greek multidrug-resistant carbapenemase-producing *Klebsiella pneumoniae* clinical isolates**
J. Meletiadis (Athens, Greece), M. Siopi, D. Skliros, P. Paranos, N. Koumasi, N. Thomaidis, E. Flemetakis, S. Pournaras*

P1267 **Establishing the basis for rational design of siderophore-β-lactam conjugates against Gram-negative and Gram-positive pathogens**
E. Lacasse (Sherbrooke, Canada), Y.M. Lin, M. Ghosh, M. Miller, K. Bouarab, M. Jacques, F. Malouin*

P1268 **Preventive activity of *E. coli* and *Akkermansia muciniphila* probiotics against intestinal colonisation by carbapenem-resistant *E. coli* in a mouse model**
M. Ishnaiwer (Nantes, France), M. Dion, E. Batard*

P1269 **DHP-based hexahydroquinoline derivatives target HsrA and exhibit potent antimicrobial activities against antibiotic-resistant *Helicobacter pylori***
J. Casado (Zaragoza, Spain), M. Gözde Gündüz, B. Santos, M. Montes, Á. Lanas, A. González*

P1270 ***In vitro*** **antibacterial activity of two medicinal Portuguese *Asphodelus* species**
M. Caniça (Lisbon, Portugal), M. Malmir, V. Manageiro, E. Ferreira, O. Silva*

P1271 **Cathelicidin family porcine peptides: insights of their antimicrobial activity**
E. Fernández-De La Cruz (Barcelona, Spain), J. Wessely-Szponder, T. Vinuesa, A. Merlos, M. Viñas, P. Espinal, E. Fusté*

P1272 ***In vitro*** **activity of BV200 anti-virulent small molecules against a large and geographically diverse panel of *Staphylococcus aureus* isolates from skin and lung infections**
O. Defert (Lille, France), V. Trebosc, J. Schill, B. Schellhorn, A. Michelotti, M. Gitzinger, M. Pieren, M. Bourotte, G.E. Dale, S. Lociuro*

P1273 **Characterisation of *Acinetobacter baumannii in vitro* spontaneous mutants reveals that rifabutin is less exposed to RpoB mutations compared to rifampicin**
V. Trebosc (Basel, Switzerland), B. Schellhorn, J. Schill, M. Gitzinger, C. Kemmer, G.E. Dale, S. Lociuro*

P1274 **Using novel physiology-based pharmacokinetic models to predict adequate drug exposures of fosfomycin and amikacin in combination to treat neonatal sepsis**
C. Darlow (Liverpool, United Kingdom), R. Peck, N.J. Parrott, W. Hope*

P1275 **Structure-activity relationships of rifabutin analogues for potent activity against *Acinetobacter baumannii***
V. Trebosc (Basel, Switzerland), M. Maingot, B. Shellhorn, K. Antraygues, H. Scherer, M. Gitzinger, C. Kemmer, M. Bourotte, O. Defert, G.E. Dale, S. Lociuro, N. Willand*

P1276 **Insights into the neonatal pharmacokinetic characteristics of flomoxef using physiology-based pharmacokinetic modelling**
C. Darlow (Liverpool, United Kingdom), R. Peck, N. Parrott, W. Hope*

P1277 **Characterisation of three novel bacteriophages against *Mycobacterium abscessus***
A. Broncano-Lavado (Madrid, Spain), M. Seoane-Blanco, P. Sánchez-Soriano, M.J. Van Raaij, J. Esteban, M. García-Quintanilla*

P1278 **A promising antibacterial agent against *Acinetobacter baumannii* infections**
S. Garcia Torres (Frankfurt, Germany), K. Hubel, G. Hahne, M. Woschek, I. Marzi, V. Kempf, S. Göttig*

P1279 **Characterising a novel bacteriophage infecting multidrug-resistant *Pseudomonas aeruginosa***
G. Santamaría-Corral (Madrid, Spain), M. Seoane-Blanco, P. Sánchez-Soriano, M.J. Van Raaij, M. García-Quintanilla*

P1280 **Novel cyclic peptides as potential efflux pumps inhibitors against multidrug-resistant *Acinetobacter baumannii***
N. Roson-Calero (Barcelona, Spain), C. Llorente-Saez, J. Moreno-Morales, C. Cosgaya, C. Ballesté-Delpierre, E. Giralt, J. Vila*

P1281 **To target or not the capsule: the dilemma of Klebsiella phages**
M. Lourenço (Paris, France), L. Osbelt, V. Passet, F. Gravey, T. Strowig, S. Brisse*

P1282 **Afabicin in combination with daptomycin shows potent *in vivo* activity against staphylococcal implant-associated infections**
R. Kuehl (Basel, Switzerland), J. Nowakowska, A.K. Woischnig, J. Bravo, G. Vuagniaux, N. Khanna*

P1283 **Plant-derived neobavaisoflavone inhibits thermonuclease production and biofilm formation by *Staphylococcus aureus***
A.R. Sultan (Rotterdam, Netherlands), N.A. Lemmens-Den Toom, W.J.B. Van Wamel*

P1284 ***In vitro* activity of a fosfomycin-trimethoprim-sulfamethoxazole antibacterial combination against methicillin-resistant *Staphylococcus aureus* and *Enterococcus* spp.**
T. Hartsell (Norfolk, United States), S. Adams, L. Williams, P. Martinez Ponce, J. Hall, S. Islam, D. Zeng, R. Doyle, Y. Elsadaany Dobs, S. Pace, E. Rios-Nieves, L. Mundie, D. Lennon, J. Chapman, T. Nastashenko, D. Williams, D. Liu, R. Mcmillan, J.W. Sohn, M.V. Villegas, L. Dubreuil, E. Hussey, M. Wiles, S. Volla, S. Gardlik, N. Georgopapadakou, J. Pace*

P1285 **Analysis of the lytic capacity and host-range of *Escherichia coli* bacteriophages using isolates collected from clinical specimens**
A.Y. Classen (Cologne, Germany), M.J.G.T. Vehreschild, H. Seifert, A. Hamprecht, P.G. Higgins, I.H.E. Korf, S.V. Walker, U. Nübel, M. Frentrup, U. Dumpis, C. Giske, M. Semret, G. Skov Simonsen, L. Biehl, J.J. Vehreschild, J. Wittmann, C. Rohde*

P1286 **Chemical characterisation and antimicrobial and antioxidant activities of several individual components of autumn fruits**
V. Silva (Vila Real, Portugal), J. Ribeiro, A. Aires, R. Carvalho, J.E. Pereira, L. Maltez, G. Igrejas, P. Poeta*

P1287 **Novel dual purpose imaging and photodynamic compound for the broad-spectrum killing of microorganisms**
S. Duncan (Edinburgh, United Kingdom), C. Lochenie, S.M.P.C. Mohanan, S. Benson, G. Williams, M. Vendrell, K. Dhaliwal, B. Mills*

P1288 **Impact of pH on activity of novel cephalosporine cefiderocol in pooled human urine**
A. Nussbaumer-Pröll (Vienna, Austria), S. Eberl, C. Schober, M. Zeitlinger*

P1289 **Antimicrobial peptides represent effective novel antimicrobial agents to treat wound infections**
D. Alves Ferreira (Dublin, Ireland), S. O'flaherty, M. Devocelle, J. P. O'gara, D. Fitzgerald-Hughes, E. O'neill*

P1290 **Pre-clinical validation of cold plasma technology as an antibiotic-free wound care irrigation**
K. Richter (Adelaide, Australia), T. Schmitt-John, A. Abdo*

P1291 **Effect of the novel siderophore cephalosporin cefiderocol on iron-transport system in *A.baumannii* strains under different iron concentrations**
S. Stracquadanio (Catania, Italy), M. Massimino, N. Musso, D. Bivona, P. Bonacci, D. Bongiorno, C. Bonomo, S. Stefani*

P1292 **Combination of bacteriophages and ciprofloxacin to prevent the selection of antibiotic- and bacteriophage-resistant *Pseudomonas aeruginosa***
A. Ferran (Toulouse, France), O. Gourbeyre, M. Lacroix, L. Debarbieux, A. Bousquet-Melou*

P1293 ***In vitro* activity of a fosfomycin-trimethoprim-sulfamethoxazole combination against third-generation cephalosporin, beta-lactam-beta-lactamase inhibitor combination, carbapenem, aminoglycoside, tigecycline, polymyxin B, and/or colistin-resistant *Escherichia coli*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, and *Acinetobacter baumannii* clinical isolates**
T. Hartsell (Norfolk, United States), S. Adams, L. Williams, P. Martinez Ponce, J. Hall, S. Islam, D. Zeng, R. Doyle, Y. Dobs Elsaadany, S. Pace, E. Rios-Nieves, L. Mundie, D. Lennon, J. Chapman, T. Nastashenko, D. Williams, D. Liu, R. Mcmillan, J.W. Sohn, M.V. Villegas, L. Dubreuil, E. Hussey, M. Wiles, S. Volla, S. Gardlik, N. Georgopapadakou, J. Pace*

P1294 **Lysin CF-370 suppresses *in vitro* resistance in *Pseudomonas aeruginosa* to meropenem, tobramycin and levofloxacin**
R. Schuch (Yonkers, United States), J. Oh, M. Warner, C. Cassino*

P1295 **Direct lytic agents, a novel family of antmicrobial agents, have a low propensity for decreased susceptibility in Gram-negative pathogens associated with airway infection in cystic fibrosis**
R. Schuch (Yonkers, United States), J. Oh, M. Warner, C. Cassino, J. Lipuma*

P1296 **Lysin CF-370 exhibits a low propensity for decreased susceptibility in Gram-negative (GN) ESKAPE pathogens**
R. Schuch (Yonkers, United States), J. Oh, M. Warner, C. Cassino*

P1297 **Synergistic effect of bedaquiline and clofazimine plus novel antimicrobial peptides against *Mycobacterium abscessus* clinical strains**
P. Solanki (London, United Kingdom), M. Asai, S. Newton, A. Morkowska, M.R. Loebinger, T.D. Mchugh, B.D. Robertson, G. Satta*

P1298 **Resistance development to PLG0206, a novel engineered antimicrobial peptide**
C. Pillar (Kalamazoo, United States), O. Walser, M. Thwaites, D. Shinabarger*

P1299 **Activity of meropenem combined with the β-lactamase inhibitor QPX7728 and comparator agents tested against challenging Gram-negative organisms**
M. Castanheira (North Liberty, United States), J. Lindley, Y. Edah, O. Lomovskaya*

P1300 **Practical assessment of an interdisciplinary bacteriophage delivery pipeline for personalised therapy of Gram-negative bacterial infections**
S. Würstle (Munich, Germany), J. Stender, J.A. Hammerl, K. Vogele, K. Rothe, C. Willy, J.J. Bugert*

P1301 ***In vitro* synergy screens of FDA-approved drugs combined with last-line antibiotics reveal new bactericidal combinations against *Klebsiella pneumoniae***
M. Gómara-Lomero (Zaragoza, Spain), J.A. Aínsa, S. Ramón-García*

P1302 ***In vitro*** **activity of sulopenem and comparator agents against anaerobic clinical isolates from the SENTRY surveillance programme 2018-2020**
S. Aronin (Old Saybrook, United States), S. Puttagunta, M. Dunne, C. Blankers, J. Maher, M. Huband*

P1303 **Characterisation of SLC13 isolated from fermented food with the potential effect against *Helicobacter pylori* infections**
T.D.T. Tran (Taipei, Taiwan, China), C.Y. Kao*

P1304 **Investigating antimicrobial photodynamic activity mediated by a meso-substituted anthracene BODIPY polymer**
D. Fitzgerald-Hughes (Dublin, Ireland), A. Rajagopal, A. Cullen, M. Pryce*

P1305 **Antitubercular activity of novel bacterial topoisomerase inhibitors with dioxygenated linkers**
M. Mitton-Fry (Columbus, United States), J. Cummings, Y. Lu, R. Slayden*

P1306 **Novel synergistic combinations of antibiotics against *Pseudomonas aeruginosa* isolates and biofilms from non-cystic fibrosis bronchiectasis patients**
L. Muñoz Muñoz (Zaragoza, Spain), Z. Baranyai, O. Algara Robles, M. Alleva, A.I. López Calleja, A. Rezusta, J. Martínez De La Fuente, L. Fernández-Barat, A. Torres, J.A. Aínsa*

P1307 **Novel antimicrobial photodynamic therapy agent kills antibiotic resistant Gram-positive bacteria**
A. Kiang (Edinburgh, United Kingdom), C. Lochenie, S. Benson, S. Duncan, S.M. Padinjarottu Charinjathil Mohanan, G.O.S. Williams, K. Dhaliwal, M. Vendrell, B. Mills*

P1308 ***In vitro*** **potency and selectivity of a novel class antibiotic targeting the lipopolysaccharide transport: LptA-OMPTAs, lipopolysaccharide transport protein A-outer membrane protein targeting antibiotics**
M. Benghezal (Allschwil, Switzerland), C. D' Arco, C. Li, E. Brabet, G. Upert, P. Zbinden, F. Jung, D. Obrecht*

P1309 **PhageGE: an interactive web-based R shiny application for bacteriophage genomic analysis**
J. Zhao (Melbourne, Australia), Y. Zhu, Y.W. Lin, M.L. Han, S. Nang, T. Velkov, J. Li*

P1310 **PLG0206, a novel engineered antibacterial peptide, has broad-spectrum activity against bacteria, including ESKAPE pathogens**
S. Hawser (Monthey, Switzerland), I. Morrissey, D. Shinabarger, D. Huang*

P1311 **Preclinical 4-week repeat-dose toxicology studies of contezolid and its prodrug contezolid acefosamil in Sprague Dawley rats**
W. Wang (Foster City, United States), H. Yuan, M. Gordeev*

P1312 **Multidrug delivery from bone-targeted mesoporous silica nanoparticles for the treatment of osteomyelitis caused by methicillin-resistant *Staphylococcus aureus***
J. Esteban (Madrid, Spain), J.J. Aguilera-Correa, M. Gisbert-Garzarán, M. Vallet-Regí*

P1313 **Effect of postbiotics from potential probiotic *Enterococcus faecalis* strains on toxigenic *Clostridioides difficile***
P. Luenglusontigit (Songkhla, Thailand), P. Sathapondecha, K. Singkhamanan*

P1314 **The development of novel antimicrobial iridium complexes against *Staphylococcus aureus* biofilms**
M. Fallon (Dublin, Ireland), L. Ralte, A. Cullen, M. Pyrce, D. Fitzgerald-Hughes*

P1315 **Targeting bacteria and their virulence with phenothiazine-type antipsychotics**
B. Rácz (Szeged, Hungary), A. Kincses, N. Szemerédi, B.Y. Huh, B. Borbély, T. Mosolygó, G. Spengler*

P1316 **Demonstration of selective growth inhibition of *Clostridioides difficile* by synthetically green pyrimidinetrione derivatives**
B. Rateb (Birmingham, United Kingdom), T. Worthington, W. Fraser*

P1317 **Epidemiology of multidrug-resistant *Mycobacterium abscessus*** **complex and bacteriophages susceptibility testing**
G. Satta (London, United Kingdom), R.M. Dedrick, A. Morkowska, M. Loebinger, G.F. Hatfull*

P1318 **Graphene oxide, a promising nanomaterial to structure innovative treatments against *Mycobacterium tuberculosis*** **infection**
F. De Maio (Rome, Italy), A. Salustri, G. Santarelli, I. Palucci, V. Palmieri, D.M. Bianco, M. Sanguinetti, M. Sali, M. Papi, G. Delogu*

P1319 **A precision antisense PNA-diaminobutanoic acid dendron conjugate with antimicrobial activity against multidrug-resistant *E. coli*** **in the murine peritonitis/sepsis model**
C. Matias (Copenhagen, Denmark), M. Iubatti, I. Maicas Gabas, L.M. Cavaco, E. Harifi Mood, N. Yavari, C. Brolin, C. Vingsbo-Lundberg, P.E. Nielsen*

P1320 **Adaptation of clinical isolates of *Klebsiella pneumoniae*** **to the combination of niclosamide with the efflux-pump inhibitor PaβN: co-resistance to antimicrobials**
O. Pacios (A Coruña, Spain), L. Fernandez-Garcia, I. Bleriot, L. Blasco, A. Ambroa, M. Lopez, C. Ortiz-Cartagena, M. Gonzalez De Aledo, F. Fernandez-Cuenca, J. Oteo-Iglesias, A. Pascual, L. Martinez-Martinez, M. Tomas*

P1321 **Resistance development in *Escherichia coli*** **at different pH following delafloxacin and ciprofloxacin challenge**
B. Babouee Flury (St. Gallen, Switzerland), A. Bösch, M. Macha, W. Qi, P. Kohler*

P1322 ***In vitro*** **activity of cefiderocol against clinical carbapenem-resistant Gram-negative bacilli**
I. Angulo-López (Bilbao, Spain), A.C. Aranaga-Decori, M. Vidal-García, J.L. Díaz De Tuesta-Del Arco, M. Basaras-Ibarzabal*

P1323 **Antimicrobial and antibiofilm activities of cell-free supernatant of *Lactobacillus paracasei*** **on pathogenic bacteria**
C. Romyasamit (Tha Sala, Thailand), P. Sornsenee, S. Boontum, N. Suvannachod*

P1324 **Bactericidal activity of BTX1801: a synthetic cannabinoid with potent activity versus *Staphylococcus aureus***
A. Kavanagh (Queensland, Australia), M. Blaskovich, C. Young, L. Berne*

P1325 **Antimicrobial profile of BTX-1801: a new synthetic cannabinoid active against Gram-positive bacteria associated with serious infections**
G. Coombs (Murdoch, Australia), C. Young, S. Mowlaboccus, D. Daley, L. Berne*

P1326 **Activity of a new antibacterial pseudopeptide: Pep16, alone and combined with colistin, *in vitro* and in a murine model of peritonitis due to *Escherichia coli***
V. Cattoir (Rennes, France), S. Chosidow, B. Fantin, I. Nicolas, J.B. Mascary, F. Chau, V. Bordeau, M.C. Verdier, P. Rocheteau, F. Guérin, V. De Lastours*

P1327 **Evaluating the efficacy of bacteriophage-antibiotics combinatorial therapy on clinical carbapenem-resistant *Klebsiella pneumoniae* (CRKP) isolates**
T.P. Lim (Singapore, Singapore), S. Thong, J.Q. Teo, Y. Zhong, W.H. Lee, S.J. Chung, T.T. Tan, A.L. Kwa*

P1328 **Evaluating the therapeutic potential of bacteriophage therapy on clinical carbapenem-resistant *Pseudomonas aeruginosa* (CRPA) isolates**
T.P. Lim (Singapore, Singapore), S. Thong, J.Q. Teo, Y. Zhong, W.H. Lee, S.J. Chung, T.T. Tan, A.L. Kwa*

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5b. Pharmacokinetics/pharmacodynamics of antibacterial drugs & therapeutic drug monitoring

P1329 **Advances in therapeutic drug monitoring and their application in treatment optimisation for bacterial central nervous system infection: a scoping review**
R. Wilson (London, United Kingdom), P. Arkell, D. Antcliffe, M. Gilchrist, K. Watkins, T.M. Rawson, A. Holmes*

P1330 **Optimising initial vancomycin dosing in neonates using a model-based approach**
A. Abdullah (Riyadh, Saudi Arabia), M. Abouelkheir, A. Almohaizeie, A. Almutairi, S. Almuhisen, S. Alqahtani, M. Almutairi*

P1331 **Comparison of vancomycin pharmacokinetic models in neonatal and young paediatric patients: effect of maturation and serum creatinine on model predictiveness**
J. Hughes (San Francisco, United States), J.D. Faldasz, R.J. Keizer*

P1332 **The pharmacodynamic activity of ceftazidime/avibactam in combination with aztreonam against a globally emerging superbug: *Stenotrophomonas maltophilia* (Sma)**
G. Rao (Chapel Hill, United States), A. Khoei, R. Sharma, M. Mojica, A. Mathers, R. Humphries, D. Fouts, J. Lipuma, R. Bonomo, D. Van Duin*

P1333 **Bacteriophage cocktails in combination with ciprofloxacin against difficult-to-treat (DTR) *Pseudomonas aeruginosa***
A. El Ghali (Detroit, United States), K. Stamper, D. Holger, J. Alexander, S. Lehman, M. Rybak*

P1334 ***In vivo* pharmacokinetic-pharmacodynamic modelling of *Acinetobacter baumannii* inoculum effect on polymyxin B in a murine thigh infection model**
A. Chauzy (Poitiers, France), G. Akrong, I. Lamarche, H. Mirfendereski, J.M. Buyck, W. Couet, S. Marchand*

P1335 **Semi-mechanistic PKPD modelling of combined ceftazidime/avibactam and colistin against a multidrug-resistant strain of *Klebsiella pneumoniae***
R. Aubry (Poitiers, France), J. Buyck, S.G. Wicha, J.W. Decousser, P. Nordmann, W. Couet, N. Gregoire*

P1336 **Efficacy evaluation of flomoxef, an oxacephem antibiotic, and cephamycins against ESBL-producing Enterobacterales using *in vitro* chemostat model**
H. Yamashiro (Osaka, Japan), N. Anan, M. Takemura, Y. Yamano*

P1337 **Comparison between pharmacokinetic-pharmacodynamic modelling results of ceftaroline against methicillin-resistant *Staphylococcus aureus* after time kill and hollow-fibre experiments**
A. Chauzy (Poitiers, France), A. Fourmy, H. Mirfendereski, W. Couet, S. Marchand*

P1338 **Evaluating β-lactam target attainment in non-critically ill patients in secondary care: a pilot prospective observational cohort study**
R.C. Wilson (London, United Kingdom), X. Wang, N. Vachtsevanou, M.J. Gilchrist, A. Farkas, J.A. Roberts, W.W. Hope, M. McClure, A.H. Holmes, T.M. Rawson*

P1339 **Antimicrobial target attainment and pharmacokinetics of cefotaxime in critically ill patients undergoing CRRT**
A. Wieringa (Zwolle, Netherlands), J. Haringman, P.G.J. Ter Horst, A. Abdulla, A. Dijkstra, G.H.J. Wagenvoort, B.C.P. Koch*

P1340 **Development and validation of a population pharmacokinetic model of dalbavancin focused at predicting optimal duration of long-term treatment of staphylococcal infections**
P.G. Cojutti (Bologna, Italy), M. Gatti, A.G. Martson, E. Zamparini, S. Tedeschi, P. Viale, W. Hope, F. Pea*

P1341 **Pharmacokinetic study of colistin in patients with acute on chronic liver failure (ACLF)**
R. Bhandari (Chandigarh, India), N. Shafiq, N. M, S. Vijh, V. Nipun, G. Vikram Prakash, S.R. mallayasamy, S.K. Hj, P. Amol, S. Virender, D. Ajay, M. Samir*

P1342 **Single-centre experience of isavuconazole in children with invasive fungal disease (IFD)**
O. Mcgarrity (London, United Kingdom), I. Cheng, J.F. Standing, A. Warris*

P1343 ***In vitro* PK/PD modelling of polymyxin B against resistant strain of *A. baumannii* in presence of mucin**
M. Lacroix (Boulogne-Billancourt, France), A. Chauzy, C. Zampaloni, C. Bissantz, H. Mirfendereski, H. Shirvani, J. Buyck, S. Marchand, W. Couet*

P1344 **Temocillin exposure *in vitro* rapidly results in emergence of less susceptible subpopulations of extended-spectrum beta-lactamase-producing *Escherichia coli***
W. Van Os (Vienna, Austria), A. Nussbaumer-Pröll, M. Zeitlinger*

P1345 **Time-kill kinetics of antibiotics alone and in combination against *Nocardia nova***
J. Van Ingen (Nijmegen, Netherlands), I. Tabak, L. Pennings*

P1346 **Therapeutic drug monitoring: errors in documented administration time and the impact on vancomycin AUC target evaluation**
M. Swartling (Uppsala, Sweden), M. Lipcsey, S. Jönsson, E.I. Nielsen*

P1347 **Achievement of the PK/PD target and therapeutic drug monitoring of ceftazidime/avibactam administered by continuous infusion in patients with infections caused by antibiotic-resistant gram-negative bacteria**
S. Luque (Barcelona, Spain), D. Fresan, L. Sorli, A. Benitez-Cano, N. Campillo, N. Prim, M.M. Montero, I. Lopez Montesinos, J.P. Horcajada, S. Grau*

P1348 **Therapeutic drug monitoring and clinical outcomes in critically ill patients requiring amoxicillin: a single-centre prospective cohort study**
A. Huttner (Geneva, Switzerland), C.H.R.I.S. Marti, J. Stirnemann, E. Von Dach*

P1349 **Pharmacokinetics of polymyxin B and the pharmacokinetic/pharmacodynamic target attainment in hospitalised adult patients with multidrug-resistant Gram-negative infections**
P.J. Zamri (Brisbane, Australia), M.H. Abdul-Aziz, M.P. Hernández-Mitre, M.S. Hasan, I. Md Shariff, H. Sulaiman, S.C. Wallis, C.D. Sumi, F.B. Sime, J.A. Roberts*

P1350 **Probability of early target attainment with continuously administered meropenem and piperacillin/tazobactam and the impact of therapeutic drug monitoring on target attainment in critically ill patients: a retrospective cohort study from 2017 to 2021**
S. Dräger (Basel, Switzerland), M. Von Rotz, N.D. Labhardt, M. Osthoff*, F.C. Franzeck**

P1351 **Effect of different resistance mechanisms on bacterial killing and regrowth of *Pseudomonas aeruginosa* in response to meropenem**
C.B. Landersdorfer (Parkville, Australia), A. Terrill, K.E. Rogers, C. López-Causapé, W.L. Lee, R.L. Nation, A. Oliver*

P1352 **Exposures to dalbavancin in patients treated for bone and joint infections**
S. Baklouti (Toulouse, France), S. Marolleau, P. Chavanet, E. Bonnet, D. Concordet, P. Gandia*

P1353 **Rapid, sensitive, and clinically applicable LC–MS/MS method for the determination of benzylpenicillin, phenoxymethylpenicillin and amoxicillin concentrations in human plasma and dermal interstitial fluid**
A. Riezk (London, United Kingdom), R. Wilson, T.M. Rawson, P. Arkel, T. Ferris, A. Cass, A. Holmes*

P1354 **Development of semi-quantitative rapid lateral flow immunochromatographic assay for the detection of vancomycin**
A. Riezk (London, United Kingdom), R. Wilson, T.M. Rawson, L. Petrou, A. Cass, A. Holmes*

P1355 **Moving towards a sustainable ICU by using residual blood from arterial blood gas tests to perform TDM of vancomycin**
T.J.L. Smeets (Rotterdam, Netherlands), D. Van De Velde, B.C.P. Koch, H. Endeman, N.G.M. Hunfeld*

P1356 **Extrapolation of static time kill curve data to predict pharmacodynamic hollow-fibre experiment data using PK/PD modelling**
L.F. Amann (Hamburg, Germany), S.G. Wicha*

P1357 **Time for individualised doses of levofloxacin in prosthetic and joint infections using therapeutic drug monitoring?**
N. El Helali (Paris, France), C. Mory, C. Couzigou, G. Pean De Ponfilly, A. Mizrahi, A. Le Monnier, R. Guillaume, C. Romain, B. Pilmis*

P1358 **Pitfalls of vancomycin therapy during continuous renal replacement therapy in ICU patients: is there an adequate target attainment?**
T.J.L. Smeets (Rotterdam, Netherlands), H.H.R. De Geus, B.C.P. Koch, H. Endeman, N.G.M. Hunfeld*

P1359 **Pharmacological data for optimisation of temocillin use according to recent EUCAST breakpoints**
A. Mizrahi (Paris, France), C. Mory, B. Pilmis, A. Le Monnier, N. El Helali*

P1360 **MPC-based prediction of the efficacy of doripenem and levofloxacin combinations against *Pseudomonas aeruginosa* with reduced susceptibility to both antibiotics**
S. Zinner (Cambridge, United States), E. Strukova, M. Golikova, K. Alieva, Y. Portnoy*

P1361 **Target attainment of meropenem in critically ill patients: evaluating the predictive performance of existing nonlinear mixed-effects modelling pharmacokinetic models**
B.C.P. Koch (Rotterdam, Netherlands), L. Li, S.D.T. Sassen, T.M.J. Ewoldt, A. Abdulla, B.C.M. Winter, H. Endeman*

P1362 **Ceftolozane/tazobactam in combination with tobramycin against the planktonic and biofilm states of hypermutable *Pseudomonas aeruginosa* isolates from paediatric patients with cystic fibrosis**
C.B. Landersdorfer (Parkville, Australia), A.A. Agyeman, D. Deveson Lucas, C. López-Causapé, K.E. Rogers, E.R.T. Franklyn, Y. Lang, W.L. Lee, J. Zhou, J.B. Bulitta, R.L. Nation, J.D. Boyce, A. Oliver*

P1363 **Bacteriophage cocktails in combination with daptomycin eradicates biofilms of daptomycin-non-susceptible *Enterococcus faecium***
A. Kunz Coyne (Detroit, United States), R. Kebriaei, K. Stamper, D. Holger, T. Morrisette, B. Biswas, G. Canfield, B. Duerkop, C. Arias, M. Rybak*

P1364 **Higher tazobactam concentrations re-sensitised a resistant *Escherichia coli* strain to piperacillin/tazobactam**
M. Andersson (Berlin, Germany), N. Zimmermann, S. G. Wicha, R. Michelet, C. Kloft*

P1365 **Inhibition of renal OCT/MATE transport by cimetidine does not impact gepotidacin**
J. Dennison (Brentford, United Kingdom), M. Zamek-Gliszczynski, J. Flemming, J. Maygar, M. Powell, S. Shabbir, S. Thomas, E. Dumont, M. Srinivasan, B. Swift, A. Barth*

P1366 **An overview of drug-drug interactions with the novel, first-in-class triazaacenaphthylene antibiotic gepotidacin**
J. Dennison (Brentford, United Kingdom), A. Barth, M. Zamek-Gliszczynski, J. Flemming, J. Maygar, M. Powell, S. Shabbir, S. Thomas, E. Dumont, M. Srinivasan, B. Swift*

P1367 **Patient level meta-analysis of posaconazole target attainment in children**
O. Elkayal (Leuven, Belgium), J. Standing, S. Bentley, A. Tragiannidis, A.H. Groll, J. Nickless, A. Brothers, J. Morales, R. Valenzuela, A. Uyttebroeck, I. Spriet, E. Dreesen*

P1368 **Sulbactam-durlobactam (SUL-DUR) *in vitro* dose response studies with and without imipenem or meropenem against carbapenemase-producing *Acinetobacter baumannii* utilising the hollow-fibre infection model**
*J. O' Donnell * (Waltham, United States), A. Tanudra, S. Mc Leod, A. Miller, R. Tommasi*

P1369 **Evaluation of the utility of bioelectrical impedance analysis as a bedside tool to monitor the volume of distribution of hydrophilic antibiotics in critically ill patients**
B. Mertens (Leuven, Belgium), E. Simons, Y. Debaveye, J. Wauters, I. Spriet, M. Gijsen*

P1370 **Modelling rate and extent of resistance development against colistin in *Klebsiella pneumoniae* and *Pseudomonas aeruginosa***
A.D. Pham (Leiden, Netherlands), J.G.C. Van Hasselt*

P1371 **Pharmacokinetics of gentamicin components C1, C1a, C2 and subsequent decline in glomerular filtration rate in neonates**
H. Soeorg (Tartu, Estonia), H. Padari, K. Kipper, M.L. Ilmoja, I. Lutsar, T. Metsvaht*

P1372 **Plasma and intraperitoneal pharmacokinetics of ceftazidime/avibactam in peritoneal dialysis patients**
V. Al Jalali (Vienna, Austria), P. Matzneller, M. Wölfl-Duchek, A. Vychytil, B. Reiter, T. Stimpfl, M. Zeitlinger*

P1373 **Pharmacological target achievement with standard bolus administration of cefazolin in complicated *Staphylococcus aureus* infections: a prospective single-centre cohort study**
M. Osthoff (Basel, Switzerland), P. Charitos, S. Moser, V. Hinic, S. Dräger, R. Kühl, K. Rentsch, P. Sendi*

P1374 **Pharmacokinetic and pharmacodynamic (PK/PD) characterisation of gepotidacin against *Escherichia coli* and *Klebsiella pneumoniae* in a neutropenic mouse thigh infection model**
J. Hoover (Collegeville, United States), C. Singley, M. Srinivasan, A. Kurumaddali*

P1375 **Pharmacokinetic/pharmacodynamics analysis of meropenem therapeutic drug monitoring data in elderly patients with regard to renal function**
I. Bondareva (Moscow, Russian Federation), S. Zyryanov, A. Kazanova, M. Chenkurov*

P1376 **Synergistic effect of polymyxin B in combination with minocycline against carbapenemase-producing *Klebsiella pneumoniae* in an *in vitro* PK/PD model**
A. Olsson (Uppsala, Sweden), C. Malmberg, C. Zhao, P. Lagerbäck, T. Tängdén*

P1377 **Quantifying complex phage-bacteria-antibiotic interactions over seven days in the hollow-fibre infection model to improve treatment of *Pseudomonas aeruginosa***
N.M. Smith (Buffalo, United States), H. De Souza, T. Luong, D.R. Roach*

P1378 **Favipiravir pharmacokinetics in immunocompromised infants and children with chronic RNA viral infections**
I. Cheng (London, United Kingdom), C. Solas, E. Howley, O. Mcgarrity, K. Rajani, J. Breuer, J. Standing, A. Kreins*

P1379 **Comparative efficacy of piperacillin/tazobactam versus meropenem administered by continuous infusion and optimised by means of a real-time clinical pharmacological advice programme in the treatment of bloodstream infections caused by Enterobacterales resistant to third-generation cephalosporins**
M. Gatti (Bologna, Italy), P.G. Cojutti, E. Rosselli Del Turco, G. Fornaro, M. Giannella, P. Viale, F. Pea*

P1380 **Improving antimicrobial dosing in neurosurgical infections: a pilot observational study of CSF vancomycin drug concentrations during the treatment of ventriculitis**
R. Wilson (London, United Kingdom), P. Arkell, D. Antcliffe, M. Gilchrist, A.R. Noel, S.C. Barnes, K. Watkins, T.M. Rawson, A. Holmes*

P1381 **Integrated *in vitro* approach to understand the exposure-effect relationship of fosfomycin against *Escherichia coli***
N. Zimmermann (Berlin, Germany), B. Pourshacheraghi, S. Wolf, T. Semmler, C. Kloft*

P1382 **Therapeutic drug monitoring of beta-lactams in a tertiary hospital**
A. Bellés-Bellés (Lleida, Spain), A. Aragonès, P. Taberner, G. Cao, M. Martínez, M. Cano, B. Martínez, M. Nevot, A.C. Samudio, M. García-González*

P1383 **Therapeutic drug monitoring of vancomycin and meropenem in patients undergoing allogeneic haematopoietic stem-cell transplantation: potential benefits and evaluation of indices via a monocentric observational study**
H.E.J. Kaba (Göttingen, Germany), J. Hasenkamp, J.N. Lackmann, M. Schulz, H. Tas, F. Streit, H. Eiffert, M.H. Schulze, L. Binder, M. Kaase, S. Scheithauer*

P1384 **Drug monitoring of ciprofloxacin (CIP) reveals association between sub-prophylactic drug serum-levels and the incidence of CIP-resistant blood cultures of clinically relevant pathogens in patients undergoing allogeneic haematopoietic stem-cell transplantation: a monocentric observational cohort study**
H.E.J. Kaba (Göttingen, Germany), J. Hasenkamp, H. Tas, M. Schulz, F. Streit, H. Eiffert, M.H. Schulze, L. Binder, M. Kaase, S. Scheithauer*

P1385 **Pharmacodynamics of bacterial efflux pump inhibitors (EPI): proof-of-concept studies**
M. Attwood (Bristol, United Kingdom), A. Noel, R. Barber, Z. Aron, T. Opperman, E. Grimsey, J. Stone, V. Ricci, L. Piddock, A. Macgowan*

P1386 **How useful is estimated glomerular filtration rate for the determination of imipenem dosage in critically ill patients? Experience from a South African surgical intensive care unit**
B. Mitton (Bloemfontein, South Africa), F. Paruk, A. Gous, J. Chausse, M. Milne, P. Becker, M. Said*

P1387 **Pharmacodynamics of WCK 4282 (high-dose cefepime plus tazobactam) against β-lactamase producing *E.coli***
A. Noel (Bristol, United Kingdom), M. Attwood, K. Bowker, A. Macgowan*

P1388 **Pharmacodynamics of amikacin studied in a pre-clinical pharmacokinetic model**
M. Attwood (Bristol, United Kingdom), A. Noel, K. Bowker, A. Macgowan*

P1389 ***In vitro* bactericidal activity of ceftazidime-avibactam in combination with seven other antibiotics against NDM-producing and NDM/OXA co-producing Enterobacterales**
T.P. Lim (Singapore, Singapore), J.Q. Teo, M.Y. Hayati, S.H. Tan, W.T.R. Leow, J.H. Sim, T.T. Tan, A.L. Kwa*

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5c. New or repurposed antibacterial agents: clinical trials

P1390 **Efficacies of two novel broad-spectrum antiseptic-based antimicrobials for the therapeutic treatment of antimicrobial resistant pathogens causing surgical/non-surgial wound infections**
S. Ali (London, United Kingdom), E. Benn*

P1391 **Efficacy of cefiderocol in patients with nosocomial pneumonia and complicated urinary tract infections caused by Enterobacterales and carbapenem-resistant Enterobacterales (CREs) from three randomised clinical trials**
T. Naas (Paris, France), J.M. Pogue, K.S. Kaye, T. Baba, A. Menon, R. Echols, Y. Yamano, C. Longshaw, S. Portsmouth*

P1392 **Efficacy of bezlotoxumab in preventing recurrence of *Clostridioides difficile* infection: an Italian multi-centre retrospective observational study**
M. Meschiari (Modena, Italy), C. Rogati, S. Casolari, P. Bassi, D.R. Ciacobbe, M. Bassetti, S. Mornese Pinna, F.G. De Rosa, F. Barchiesi, C. Lorusso, G. Cenderello, C. Mussini*

P1393 **Evaluation of the Oxoid Lefamulin 20 µg Antimicrobial Susceptibility Testing (AST) Disc against the hardy Lefamulin 20 µg AST Disc**
A. Lovatt (Basingstoke, United Kingdom), N. Holliday, C. Knapp, E. Best, S. Paukner, K. Simpson, J. Lindley, D. Shortridge*

P1394 **Single-centre UK experience of once weekly dalbavancin for the treatment of invasive Gram-positive infections in vulnerable groups**
B. Porter (Oxford, United Kingdom), S. Hodgson, L. Masson, L. Dunsmure, N. Stoesser*

P1395 **Safety profile of sulbactam-durlobactam (SUL-DUR) versus colistin therapy in patients with *Acinetobacter baumannii-calcoaceticus* complex (ABC) infections from the phase III, global, randomised, active-controlled trial (ATTACK)**
D. Lewis (Waltham, United States), K. Rana, M. Steidler, G. Poirier, D. Altarac*

P1396 **Safety, efficacy, and pharmacokinetics of ceftolozane/tazobactam versus meropenem in neonates and young infants with complicated urinary tract infection, including pyelonephritis**
E. Roilides (Thessaloniki, Greece), J.S. Bradley, S. Basu, J. Lonchar, J.A. Huntington, J. Chittenden, N. Noormohamed, C.J. Bruno, M.G. Johnson*

P1397 **Efficacy and safety of sulbactam-durlobactam (SUL-DUR) therapy in patients with *Acinetobacter baumannii-calcoaceticus* complex (ABC) infections in the open label part B of the ATTACK phase III trial**
K. Rana (Waltham, United States), D. Altarac, R. Isaacs, S. Srinivasan, S. Mcleod, G. Poirier, A. Shorr, K. Kaye*

P1398 **Efficacy and safety of intravenous sulopenem followed by oral sulopenem etzadroxil/probenecid versus intravenous ertapenem followed by oral ciprofloxacin and metronidazole or amoxicillin-clavulanate in the treatment of complicated intra-abdominal infections: the SURE-3 trial**
S. Aronin (Old Saybrook, United States), J. Breen, M. Dunne, S. Puttagunta*

P1399 **A phase I study of the safety, tolerability, and pharmacokinetics of the Novomixin QPX9003 in healthy adult subjects**
Y. Carmeli (Tel Aviv, Israel), D. Griffith, S. Gehrke, E. Morgan, M. Dudley, J. Loutit*

PS038

5d. Antimicrobial stewardship and improved prescribing (incl interventions, decision-support / prediction tools, behavioural aspects)

P1400 **Rebuilding antimicrobial stewardship programmes during COVID-19 pandemics**
M. Puig-Asensio (L'hospitalet De Llobregat, Spain), M. Ronda, F. Tubau, J. Sabater, E. Santafosta, F. Esteve, R. Granada, V.D. Gumucio, A. Padullés*

P1401 **Impact of antimicrobial stewardship programmes suspension on antibiotic consumption after COVID-19: an interrupted time series analysis**
N. Rocha-Pereira (Porto, Portugal), M. Mouro, B. Leão, S. Correia, C. Leal, F. Almeida, R. Duro, P. Andrade, C. Lima Alves*

P1402 **Impact and outcomes of electronic prescribing system on antimicrobial stewardship activities**
M. Kelly (Dublin, Ireland), R. O'connor, F. Nevin, B. Carr, G. Melanophy, C. Merry, C. Bergin, B. Boyle*

P1403 **Preliminary results of an antimicrobial stewardship program in hospitals in a low-income country, 2018-2020: the TSARA project in Madagascar**
M. Raad (Lyon, France), C. Elias, Y. Mallet, S. Rasoanandrasana, M. Randria, L. Raskine, F.X. Babin*

P1404 **Prevalence of antibiotic allergy labels and suitability for point-of-care penicillin allergy de-labelling at a large UK hospital**
B. Bethan (Cambridge, United Kingdom), N.K. Jones, R. Santos, S. Nasser, T. Gouliouris*

P1405 **Efficacy evaluation of an antimicrobial stewardship programme on antibiotic consumption and *C. difficile* infection rates in a tertiary hospital in Italy before and during COVID-19 pandemic**
E. Chiari (Brescia, Italy), E. Festa, G. Del Fabro, E. Van Hauermeiren, S. Lorenzotti, B. Saccani, P. Lanza, A. Matteelli, F. Castelli, L. Signorini*

P1406 **Understanding the barriers and drivers for antimicrobial stewardship experienced by health care practitioners when treating upper respiratory tract infections in Europe**
A.W. Van Der Velden (Utrecht, Netherlands), A. Altiner, A. Sessa, R. Kozlov, A. Shephard, A.B. Smith, S.Y. Essack*

P1407 **Trends of broad spectrum antibiotics consumption in Spain, 2012-19**
M. Cantero Caballero (Madrid, Spain), E. Jiménez Tejero, L.M. Parra Ramírez, Á. Asensio Vegas, R.M. Ortí Bordas, I. Salcedo Leal*

P1408 **Creation of a bone and joint infection multidisciplinary team in a distrital hospital: evaluation of the first months of activity**
C. Soeiro (Aveiro, Portugal), J. Velez, C. Coimbra, C. Malheiro, N. Kruptsala, M. Vieira, F. Freitas*

P1409 **Assessing the conversion of electronic patient records data into antibiotic stewardship quality indicators**
L. Renggli (Bern, Switzerland), C. Plüss-Suard, M. Gasser, B. Sonderegger, A. Kronenberg*

P1410 **Use of an antimicrobial stewardship smartphone app in hospitals: an international, multi-centre, cluster-randomised study**
R. Helou (Rotterdam, Netherlands), G. Catho, A. Peyravi Latif, J. Conly, T. Tängdén, B. Huttner, A. Verbon*

P1411 **The "BATMO" programme: effectiveness and outcome of an innovative anti-infectious prophylaxis scheme in patients undergoing allogenic haemopoietic stem cells transplantation**
B. Fumarola (Brescia, Italy), M. Lorenzo, G. Del Fabro, L. Signorini, S. Lorenzotti, M. Malagola, A. Turra, F. Castelli, D. Russo*

P1412 **Antimicrobial stewardship in intensive care units (ICU) of a private hospital in Brazil**
W. Freitas (Rio De Janeiro, Brazil), Vasconcelos De, M. Alves, Silvana, S. Nouér, Aranha*

P1413 **Characteristics of ceftriaxone prescription in a tertiary hospital in Portugal: opportunities for stewardship interventions**
A. Gorgulho (Cascais, Portugal), F. Cunha, E. Branco, A. Azevedo, F. Almeida, R. Duro, N. Pereira, P. Andrade, C. Alves*

P1414 **Impact of COVID-19 pandemic on quality indicators for appropriate antibiotic use**
B. Dietl (Barcelona, Spain), L. Boix-Palop, L. Gómez, P. Arcenillas, M. Xercavins, N. Sanmarti, Ú. Masats, C. Badia, J. Nicolás, E. Calbo*

P1415 ***Staphylococcus aureus* bacteraemia electronic reminder (SABER): infectious disease consultation rates and patient outcomes after implementation of an automated electronic medical record nudge**
A. Lepak (Madison, United States), J. Perzynski, S. Biswas, B. Schnapp, M. Brennan*

P1416 **Dalbavancin serums level in complicated cardiovascular infectiosn: a small case series from the Univeristy Hospital Schleswig Holstein, Campus Kiel**
A. Friedrichs (Kiel, Germany), C. Kujat, B. Steinborn, F. Soergel, M. Kinzig*

P1417 **Description of a novel information technology system (FATS) as an antimicrobial stewardship aid**
A. Bapat (London, United Kingdom), T. O'Neill, K. Kalia, L. Caldwell, F. Jimenez-England, N. Perera, N. Duncan, M. Andersson, J. Lambourne, L. Drumright, S. Agrawal*

P1418 **Effect of daily antibiotic stewardship ward rounds on adherence to local treatment guidelines and antibiotic consumption in a large university emergency department**
L. Arenz (Munich, Germany), A. Porger, A. Weber, J. Jung, H. Horns, S. Gscheidle, T. Weiglein, J. Pircher, M. Klein, R. Draenert*

P1419 **Factors contributing to decisions on antibiotic prescribing for suspected urinary tract infections in frail older adults: a qualitative study**
E.A.R. Hartman (Amsterdam, Netherlands), W.G. Groen, S.R. Heltveit-Olsen, M. Lindbæk, S. Høye, I. Skoglund, P.D. Sundvall, E. Snaebjörnsson Arnljots, R. Gunnarson, A. Kowalczyk, M. Godycki-Cwirko, K. Kosiek, T.N. Platteel, A.C. Van De Pol, T.J.M. Verheij, A.A. Monnier, C.M.P.M. Hertogh*

P1420 **Activities of cationic steroid antibiotics against *Myroides* spp., from Turkish hospitals**
E.S. Demir (Istanbul, Turkey), T. Eltimur, C. Bozkurt Güzel, O. Oyardi, A. Akçali, P.B. Savage*

P1421 **Pharmacist's role in antimicrobial stewardship: a qualitative study from India, South Africa and the United Kingdom**
E. Charani (London, United Kingdom), V. Nampoothiri, O. Mbamalu, M. Mendelson, S. Singh*

P1422 **Reductions in antibiotic prescribing in Australia during the SARS-CoV-2 pandemic: national prescribing data**
J. Skeggs (Clayton, Australia), A. Macphail, T. Korman, I. Woolley, J. Lau*

P1423 **GPPAS model: guiding the implementation of antimicrobial stewardship by general practitioner-pharmacist collaboration in Australian primary care**
S.K. Saha (Melbourne, Australia), D. Kong, K. Thursky, D. Mazza*

P1424 **Fluoroquinolone (FQ) use reduction using the CDC antibiotic use Option (AUO): restoring Gram-negative bacteria susceptibility to FQ**
G. Forrest (Chicago, United States), K. Mackay, C. Pfeiffer*

P1425 **Use of nudging strategies to develop a clinical microbiology antimicrobial stewardship framework**
L. Matukas (Toronto, Canada), M. Mcintyre, B. Langford, E. Leung, R. Haj, L. Taggart, A. Scherer, K. Brown*

P1426 **Assessing the use of forgotten antibiotics through the global point prevalence survey of antimicrobial consumption and resistance (Global-PPS)**
A. Versporten (Antwerp, Belgium), I. Pauwels, H. Goossens*

P1427 **Comparing non-prescription antibiotic use in central and southern communities in Ghana**
S. Afari-Asiedu (Kintampo, Ghana), G. Amankwah, S. Gyaase, M. pomaah Agyekum, E. Awini, A. Tostmann, M. Hulscher, M. Ali Abdulai, E. Boamah-Kaali, S. Asiamah, A. Monnier, M. Gyapong, H. Wertheim, J. Williams, K. Poku Asante*

P1428 **Knowledge, attitudes, and practices regarding antimicrobial stewardship in tertiary care hospitals: a survey of healthcare professionals in India**
A. Routray (Mumbai, India), A. Mane, S. Kamat*

P1429 **Antibiotic desensitisation in patients with penicillin-allergy label: a potential useful tool in antimicrobial stewardship programmes?**
S. Gómez-Zorrilla (Barcelona, Spain), A. Rodriguez Alarcón, D. Echeverría-Esnal, A. Benitez-Cano, L. Sorli, J. Barcelo, E. Sendra, I. López Montesinos, R. Guerri, O. Ferrandez, R. Adalia, F. Escolano, J.P. Horcajada, S. Grau*

P1430 **Differences seen in race/ethnicity, age, and gender seen in overall and inappropriate antibiotic prescribing in US physician offices, 2009 to 2016**
E. Young (San Antonio, United States), K. Strey, A. Yap, T. Carlson, J. Koeller, G. Lee, K. Reveles*

P1431 **The global point prevalence survey of use of antibiotics in hospitalised COVID-19 patients in Georgia: what the pandemic has changed?**
A. Versporten (Antwerp, Belgium), I. Korinteli, I. Pauwels, H. Goossens, H. Phagava, K. Pagava*

P1432 **Physician barriers to use a digital antimicrobial stewardship smartphone application to combat AMR in hospitals: a qualitative descriptive study**
G. Catho (Geneva, Switzerland), R. Helou, A. Peyravi Latif, J. Conly, T. Tangden, B. Huttner, A. Verbon, M. Huschler*

P1433 **Barriers and facilitators for therapeutic drug monitoring of beta-lactams and ciprofloxacin in the ICU: a nationwide cross-sectional study**
T.M.J. Ewoldt (Rotterdam, Netherlands), A. Abdulla, P. Van Den Broek, N. Hunfeld, S. Bahmany, A.E. Muller, D. Gommers, S. Polinder, H. Endeman, I. Spronk, B.C.P. Koch*

P1434 **The clinical pharmacist role in optimising dosing and therapeutic drug monitoring of vancomycin and aminoglycoside**
S. Swaid (Haifa, Israel), A. Paz*

P1435 **Integration of three surveillance networks: a novel strategy for implementation of antimicrobial stewardship in Shanghai**
M. Wang (Shanghai, China), H. Hu, Q. Lv, B. Hu, W. Wu, F. Yang, X. Gao, M. Zhong*

P1436 **The development of a list of quality indicators for appropriate antimicrobial prescribing in hospitals in an international, multi-centre, antibiotic (AB) assistant clinical trial**
R. Helou (Rotterdam, Netherlands), G. Catho, A. Peyravi Latif, M. Hulscher, J. Conly, B. Huttner, T. Tängdén, A. Verbon*

P1437 **Comparing the clinical utility of ceftolozane/tazobactam and ceftazidime/avibactam for multidrug-resistant *Pseudomonas aeruginosa* infections: a single U.S. centre real-life experience**
A. Vega (Miami, United States), J. Simon, L. Abbo*

P1438 **Antibiotic prescribing for surgical prophylaxis in 15 Philippine hospitals: results from a 4-year surveillance period using repeated point prevalence surveys**
M.R. De Los Reyes (Muntinlupa, Philippines), I. Pauwels, A. Versporten, H. Goossens, A.M. Guerrero*

P1439 **Evolution of antibiotic use in hospitalised patients during the COVID-19 pandemic: data from 108 veterans affairs healthcare facilities**
M. Goetz (Los Angeles, United States), T. Willson, V. Stevens, C. Graber, M. Rubin*

P1440 **SamurAI: pre-clinical development and evaluation of supervised machine learning to support antibacterial therapy management in hospital inpatients**
P. Dutey-Magni (London, United Kingdom), M. Brown, J. Cooper, C. Curtis, S. De, R. Dobson, N. Stone, L. Shallcross*

P1441 **National antimicrobial point prevalence survey in older persons residential care facilities (RCFs)**
M. Shah (Cork, Ireland), A. Clancy, M. Regan, S. Armitage, C. Mannion, O. Gallagher, R. Foran, S. Fagan, M. Donnelly, B. Love*

P1442 **Assessing the global use of WHO-recommended watch antibiotic formulations in children**
M. Wood (London, United Kingdom), A. Cook, J. Bielicki, M. Sharland, Y. Hsia*

P1443 **Computerised decision support system to optimise antibacterial prescribing among previous *Clostridioides difficile* infected patients**
S. Hughes (London, United Kingdom), K. Heard, N. Mughal, L. Moore*

P1444 **Antimicrobial use, resistance, and appropriateness in healthcare-associated and community-associated infections: a point prevalence survey**
M. Alshamrani (Riyadh, Saudi Arabia), A.A. Alsaedi, A. El-Saed, A. Althaqafi, M. Javid Bhutta, B. Abukhzam*

P1445 **Learning from the Red Line program in India on the labelling of antibiotics: a qualitative interview study exploring experiences of the general public, pharmacists, and policy-makers**
A.A. Monnier (Nijmegen, Netherlands), S. Kamath, H. Bright, P. Mathew, S. Afari-Asiedu, H.F.L. Wertheim, S.J. Chandy*

P1446 **The impact of COVID-19 pandemic on antimicrobial stewardship programme**
A. Ueda (Tokyo, Japan), Y. Akagi, M. Mawatari*

P1447 **Amikacin dose optimisation in the emergency department: does one dose fit all?**
N. Dia (Leuven, Belgium), S. De Winter, O. Elkayal, B. Mertens, P. Vanbrabant, W. Peetermans, I. Spriet, E. Dreesen*

P1448 **Oral doxycycline to carbapenem-resistant *Acinetobacter baumannii* infection as a polymyxin-sparing strategy: results from a retrospective cohort**
J.P. Telles (São Paulo, Brazil), F.F. Tuon, C.H. Yamada, A.P. De Andrade, L. Arend, D.D.S. Oliveira, V.S.T. Ribeiro*

P1449 **Assessment of the long-term impact of a smartphone app on prescriber adherence to antibiotic guidelines for adult patients with community-acquired pneumonia**
C.H. Yoon (Auckland, New Zealand), S.R. Ritchie, E.J. Duffy, M.G. Thomas, S. Mcbride, K. Read, R. Chen, E. Mills, I. Nolan, G. Humphrey*

P1450 **The global point prevalence survey of antimicrobial consumption and resistance (Global-PPS): results of antimicrobial prescribing in Montenegro in 2021**
M. Lopicic (Podgorica, Montenegro), M. Raicevic, A. Versporten, I. Pauwels, G. Mijovic*

P1451 **Do we need blood culture stewardship programmes? A quality control study to assess the appropriateness of blood culture collection**
S. Dräger (Basel, Switzerland), C. Giehl, M. Osthoff*

P1452 **Crossroads of antimicrobial and diagnostic stewardship: clinical decision support to optimise time to effective therapy against multidrug-resistant *Pseudomonas aeruginosa***
K.C. Claeys (Baltimore, United States), I. Zou, D. Abate, E. Heil, S. Leekha*

P1453 **Telehealth versus in-person visits: appropriate antibiotic use for viral respiratory tract infections**
L. May (Sacramento, United States), B. Morgan, M. Cynthia*

P1454 **Empiric broad-spectrum Gram-negative antibiotic use is highly variable across U.S. hospitals even after accounting for patient and facility characteristics: a retrospective cohort study across 928 hospitals**
K. Goodman (Baltimore, United States), J. Baghdadi, L. Magder, R. Dillon, L. Puzniak, A. Harris*

P1455 **Empowering an antibiotic stewardship programme with computerised drug utilisation evaluation: a prospective quasi-experimental study**
T. Khawcharoenporn (Pathumthani, Thailand), S. Suksamai*

PS039

5e. Safety and adverse effects of treatment

P1456 **Implementation of bacteriophage therapy for difficult-to-treat musculoskeletal infections: experience from the coordination group for bacteriophage therapy, Leuven**
J. Onsea (Leuven, Belgium), S. Uyttebroek, B. Chen, J. Wagemans, C. Lood, L. Van Gerven, I. Spriet, D. Devolder, Y. Debaveye, M. Depypere, L. Dupont, P. De Munter, W.E. Peetermans, V. Van Noort, M. Merabishvili, J.P. Pirnay, R. Lavigne, W.J. Metsemakers*

P1457 **Nephrotoxicity with vancomycin in combination with ceftolozane-tazobactam**
A. Kunz Coyne (Detroit, United States), S. Alosaimy, A.M. Lagnf, A.L.V. Hobbs, M. mubarez, W.D. Kufel, R. Polisetty, D.I. Li, T. Morrisette, A. Cubillos, E. Chandler, M. Patch, I. Murphy, K. Smith, M.P. Veve, S. Simon, J. Truong, N. Finch, V. Venugopalan, J. Wring, M. Biagi, C. Yost, L. Amaya, M. Rico, W.J. Moore, K. Molina, D. Holger, N. Rebold, S.L. Davis, M.J. Rybak*

P1458 **Efficacy and safety of intravenous fosfomycin in the treatment of multidrug resistance Gram-negative bacterial infections**
G. Cinar (Ankara, Turkey), E.M. Saricaoglu, E. Gulten, I. Akdemir Kalkan, F. Yoruk, M.S. Birengel, I. Balik, K.O. Memikoglu, A. Azap*

P1459 **Chiral characteristics of top-selling anti-infectives**
D. Bayram (Istanbul, Turkey), C. Vizdiklar, A. Bahar, V. Aydin, D. Havyarimana, A. Akici*

P1460 **Evaluation of the stability of aciclovir in elastomeric infusion devices used for outpatient parenteral antimicrobial therapy (OPAT) services in accordance with the requirements of the UK NHS Yellow Cover Document**
M. Gilchrist (London, United Kingdom), F.B. Sime, S.C. Wallis, C. Jamieson, T. Hills, M. Santillo, R.A. Seaton, F. Drummond, J.A. Roberts*

P1461 **Scoping the stability of amoxicillin for use in Outpatient Parenteral Antimicrobial Therapy (OPAT) services in accordance with the requirements of the UK NHS Yellow Cover Document**
M. Gilchrist (London, United Kingdom), F.B. Sime, S.C. Wallis, C. Jamieson, T. Hills, M. Santillo, R.A. Seaton, F. Drummond, J.A. Roberts*

P1462 **Risk factors for renal failure associated to vancomycin: a real-world evidence study**
J. Fernández (Oviedo, Spain), I. Maray Mateos, C. Álvarez Asteinza, M. Alaguero Calero, L. Macía Rivas, C.L. Fernández Laguna, P. Valledor*

PS040

5f. Pharmacoepidemiology / pharmacoeconomics (incl cost-effectiveness, modelling)

P1463 **Over prescribing of antibiotics for acute respiratory infections in primary care in northern Vietnam: a population-based study using healthcare claims data**
N. Vinh Nguyen (Hanoi, Vietnam), N. Thi Thuy Do, D. Tien Viet Vu, R. C Greer, S. Dittrich, T. Ngoc Pham, N. Thi Dieu Ta, T. Quang Pham, V. Thanh Khuong, T. Son Trinh, H. Thanh Nguyen, T. Thi Vu, H.R. Van Doorn, Y. Lubell, S. O Lewycka*

P1464 **Antimicrobial use monitoring in countries experiencing population ageing needs incorporating changes in population structure**
R. Koizumi (Tokyo, Japan), Y. Kusama, Y. Asai, S. Tsuzuki, M. Ishikane, Y. Muraki, N. Ohmagari*

P1465 **Ceftolozane-tazobactam for the treatment of complicated infections in hospital settings: results from a French real-world study**
R. Ruimy (Nice, France), B. Akrich, X. Bourge, D. Boutoille, I. Brassac, B. Castan, R. Lorieau-Thibault, C. Mackosso, L. Monteiro Tavares, F. Ruiz, J.F. Timsit, J. Mootien*

Poster presentation time for **6. Fungal infection & disease**
Monday, 25.04.2022 12:00 - 13:00

PS041

6a. Fungal disease epidemiology

P1466 **Screening for *Cryptococcal* and *Histoplasma* antigens among HIV patients in Ghana**
B. Ocansey (Manchester, United Kingdom), I. Asamoah, M. Agyei, O. Oladele, K.P. Berko, B. Opoku-Asare, V. Ganu, C. Kosmidis, P. Puplampu, J. Opintan, D. Denning*

P1467 **Has the epidemiology of cryptococcosis changed in the last decade?**
H. Guillen-Zabala (Madrid, Spain), L. Urbina, G. Cañadas, L. Vesperinas, A. Rojas, E. Reigadas, R. Alonso, M. Machado, I. Adan, J. Guinea, E. Bouza, P. Muñoz, M. Valerio*

P1468 **Roles of lifestyles and clinical presentations associated with RVVC among women of reproductive age in southern Nigeria**
R. Richardson (Manchester, United Kingdom), S. Fayemiwo, L. Novak-Frazer, I. Adewole*

P1469 **Epidemiology of candidaemia among critically ill adult patients in Martinique, 2001–2019**
E. Masri Sidani (Fort-De-France, Martinique), R. Valentino, A. Cabié, N. Desbois-Nogard, Y. Le Govic*

P1470 **Evolution of a *Candida auris* outbreak in an intensive care unit of a tertiary teaching hospital in north-west Italy: incidence, monitoring and management strategies**
A. Bocchio (Genoa, Italy), A. Battaglini, A. Talamini, D. Bellina, B. Guglielmi, A. Marchese, M. Bassetti, P. Pelosi, G. Orengo, G. Icardi, A. Orsi*

P1471 **Epidemiology, and genetic characterisation of *Candida orthopsilosis* by microsatellite typing in China**
Y.T. Ning (Beijing, China), Y.C. Xu*

P1472 **Current epidemiology and 12-week mortality rates of invasive fungal infections in a real-life tertiary centre**
C. Garcia-Vidal (Barcelona, Spain), P. Monzo-Gallo, P. Puerta-Alcalde, C. Cardozo, M. Chumbita, C. Lopera-Marmol, N. García-Pouton, M. Fernández, G. Cuesta, F. Andrade-Meira, I. Grafia, F. Aiello, M. Bodro-Marimont, A. Soriano-Viladomiu, F. Marco*

P1473 **_Cryptococcal meningitis_: a cohort in a hospital in northeastern Brazil**
L.S. Damasceno (Fortaleza, Brazil), R.C. César, M.C.S. Canuto, J.P. Barbosa Neto, T.M.J. Leitão*

P1474 **Incidence, aetiology, clinical characteristics and treatment of invasive pulmonary aspergillosis in a Spanish general hospital: a three-year study**
A. Silva Asiain (TaLavera De La Reina, Spain), A. Beteta López, V. Vinuesa Velasco, M.P. Fernández Sarratea, L. Vega Prado*

P1475 **Virulence distribution of *Trichosporon* species causing invasive infection from a multi-centre study in China**
S.Y. Yu (Beijing, China)*

P1476 ***Scedosporium* and *Lomentospora* species bloodstream infection is uniformly fatal in patients with haematological malignancy**
A. Stewart (Brisbane, Australia), C. Heney, D. Paterson, P. Harris, F. Edwards, K. Laupland*

P1477 **Candidaemia in COVID-19 patients compare to non-COVID-19 patients: higher incidence but not driven by intra-hospital transmission**
M. Machado (Madrid, Spain), A. Estévez, J. Díaz-García, C. Sánchez-Carrillo, J. Guinea, P. Escribano, R. Alonso, M. Valerio, B. Padilla, E. Bouza, P. Muñoz*

P1478 **Prior antifungal conditioning breakthrough invasive fungal infection epidemiology among patients with haematological malignancies: insights from a national prospective multi-centre study**
P. Puerta-Alcalde (Barcelona, Spain), C. Martín-Gandul, J.C. Ramos, J. Laporte-Amargós, M. Machado, P. Martín, M. Franch-Sarto, I. Sánchez-Romero, J. Badiola, L. Gómez, I. Ruiz-Camps, L. Yáñez, B. Puertas, L. Vázquez, C. Cardozo, F. Marco, A. Alastruey-Izquierdo, P. González, A. Fernández-Cruz, M. Batlle, J. Fortún, J. Guinea, C. Gudiol, J. Garcia, M. Aguilar-Guisado, C. Garcia-Vidal*

P1479 **Candidaemia in patients admitted to the ICU: COVID-19 versus non-COVID-19**
K. Gkartzonika (Ioannina, Greece), T. Dimolenis, C. Kittas, I. Andrianopoulos, O. Tsompikou, A. Papadima, A. Kallinteri, K. Dallas, E. Priavali, V. Koulouras*

P1480 **Candidaemia in COVID-19 patients: incidence, characteristics and concomitant infections in a tertiary care hospital**
M.T. Peláez García De La Rasilla (Oviedo, Spain), P.G. Gonzalez-Moreno, M.A. Alvarez Alvarez, J.F. Fernandez Suarez, L.F. Forcelledo Espina, S.M. Melon, D.E. Escudero, F.V. Vazquez Valdes, M.L. Sánchez*

P1481 **Screening for *Candida auris* colonisation in foreign patients admitting the university hospital of Cologne from 2017-2021**
J. Heindel (Cologne, Germany), J. Zweigner, F. Fuchs, A. Hamprecht*

P1482 **COVID-19 associated aspergillosis in a Latin American referral centre: risk factors, diagnosis, and outcomes**
A.M. Doi (São Paulo, Brazil), J. Nobrega De Almeida Jr, M.J. Lumi Watanabe, P.C. Mariko Koga, K.A. Santiago, M. Maranghello Mafuf, M. Da Silva Jr, C.L. Mangueira, J. Pasternak, M. Dalla Valle Martino*

P1483 **Update on the epidemiology of COVID-19-associated pulmonary aspergillosis in ICU patients in a Greek tertiary care academic reference hospital**
J. Meletiadis (Athens, Greece), M. Siopi, P.C. Georgiou, P. Paranos, C. Kaminari, S. Vourli, E. Paramythiotou, F. Frantzeskaki, I. Tsangaris, S. Pournaras*

P1484 **Descriptive and comparative report of mucormycosis cases in a referral centre in Iran: COVID-19 era and 13 years before**
I. Alavi Darazam (Tehran, Iran, Islamic Republic of), M.J. Ebrahim, M. Moafi, A. Babamahmoodi, N. Akbari Dilmaghani, M. Mardani, E. Mahmoudi Chalmiani, S. Shokouhi, M. Shabani, F. Bidari, E. Jamali, S. Khoshsirat, Z. Rahmani*

P1485 **An outbreak of disseminated fusariosis at a haematopoietic stem cell transplantation unit associated with contaminated water system**
D. Shasha (Tel Aviv, Israel), L. Dardik, A. Medovy, R. Moskovich, R. Ram, Y. Moshe, S.E. Meijer, A. Novikov, R. Ben-Ami, O. Henig*

P1486 **Emergence of *Candida auris* in Israel, 2021**
R. Ben-Ami (Tel Aviv, Israel), R. Biran, R. Cohen, T. Brosh-Nissimov, G. Rahav, S. Amit, Y. Shahor-Meyouchas, A. Atamna, J. Bishara, H. Ben Zvi, M. Hershman Sarafov, S. Maayan, Y. Maor, O. Schwartz, M. Elbaz, A. Novikov, O. Henig*

P1487 ***C. auris* outbreak in COVID-19 intensive care unit**
B. Erturk Sengel (Istanbul, Turkey), E. Tükenmez Tigen, E. Sayin, A. Sevdaliyeva, N. Cerikcioglu, I. Cinel, V. Korten, Z. Odabasi*

P1488 **Paediatric invasive aspergillosis (IA) and mucormycosis co-infection in Saint Petersburg, Russia**
N. Klimko (Saint Petersburg, Russian Federation), E. Shagdileeva, Y. Dinikina, S. Khostelidi, O. Shadrivova, A. Volkova, M. Popova, L. Zubarovskaya, T. Bogomolova, S. Ignatyeva, A. Kolbin, M. Belogurova, E. Boichenko*

P1489 **Species distribution and antifungal susceptibilities of *Penicillium*-like fungi from clinical samples in China**
L.N. Guo (Beijing, China), Y.C. Xu*

P1490 **Genotyping of *Candida* isolates from blood samples and abdominal cavity from patients admitted to 16 hospitals in Madrid (CANDIMAD survey) suggests a high proportion of singleton genotypes**
J. Díaz-García (Madrid, Spain), A. Perez-Ayala, E. Gómez García De La Pedrosa, F. González Romo, M.S. Cuétara, A. Sánchez-García, C. García-Esteban, N. Zurita, M. Muñoz-Algarra, I. Quiles-Melero, M.T. Durán-Valle, A. Gómez, E. Reigadas, L. Alcalá, C. Sánchez-Carrillo, P. Muñoz, P. Escribano, J. Guinea*

P1491 **The incidence and clinical outcomes of cryptococcosis in Taiwan: a nationwide, population-based study during 2002-2015**
G. Shang-Ting (Taipei, Taiwan, China), H. Yu-Shan, H. Shih-Tsung, H. Fei-Yuan, C. Yee-Chun*

P1492 **Multi-centre and randomised evaluation of the impact of indoor environment counsellor home intervention on asthma: the French ECENVIR study**
J.P. Gangneux (Rennes, France), L. Com-Ruelle, J. Morcet, P. Le Cann*

P1493 **Factors associated with COVID-19-associated pulmonary aspergillosis development and outcome**
J. Calderon Parra (Majadahonda, Spain), V. Moreno-Torres, P. Mills-Sánchez, S. Tejado Bravo, M. Calvo-Salvador, E. Múñez-Rubio, A. Ramos-Martínez, A. Fernandez-Cruz*

P1494 **Fungi in beach sand and recreational waters: an unaccounted exposure pathway?**
J.P. Gangneux (Rennes, France), J. Brandão, H. Solo-Gabriele, E. Segal*

P1495 **A novel rapid test for *Aspergillus* specific IgG antibody**
H. Wang (Tianjin, China), J. Peng, J. Yan, Y. Zhang, W. Yao*

P1496 **Predictors of candidaemia mortality among critically ill patients: a multi-centre retrospective study**
M. Papadimitriou-Olivgeris (Lausanne, Switzerland), F. Fligou, F. Lamoth, A. Spiliopoulou, J.L. Pagani, F. Kolonitsiou, A. Coste, F. Paliogianni, M. Marangos, L. Senn*

P1497 **Species epidemiology of yeasts isolates collected from blood and abdominal cavity samples: multi-centre CANDIMAD survey (Madrid, Spain)**
J. Díaz-García (Madrid, Spain), A. Pérez-Ayala, E. Gómez-García De La Pedrosa, F. González-Romo, M.S. Cuétara, A. Sánchez-García, C. García-Esteban, N. Zurita, M. Muñoz-Algarra, I. Quiles-Melero, M.T. Durán-Valle, E. Reigadas, L. Alcalá, C. Sánchez-Carrillo, P. Muñoz, P. Escribano, J. Guinea*

P1498 **Increased incidence of candidaemia in critically ill patients during the COVID-19 pandemic**
M. Papadimitriou-Olivgeris (Lausanne, Switzerland), F. Kolonitsiou, S. Kefala, A. Spiliopoulou, D. Aretha, C. Bartzavali, A. Siapika, M. Marangos, F. Fligou*

P1499 **COVID-19 associated mucormycosis: an observational study from Iran**
S. Khodavaisy (Tehran, Iran, Islamic Republic of), F. Pakdel, K. Ahmadikia, M. Salehi, A. Tabari, A. Barac*

P1500 **Risk factors associated with oropharyngeal candidiasis in COVID-19 patients: a case-control study**
S. Khodavaisy (Tehran, Iran, Islamic Republic of), M. Salehi, I. Alavi Darazam, S.A. dehghan Manshadi, T. Boekhout*

P1501 **Mucormycosis in northwest Iranian cases with a history of Delta COVID-19, a brief report**
K. Diba (Urmia, Iran, Islamic Republic of), R. Jaafaree, R. Samari, R. Nejadrahm, R. Qaraghagi, K. Jaafari*

P1502 **Laboratory capacities to diagnose and treat invasive fungal infections in Europe: results from an ECMM survey**
J. Salmanton-García (Cologne, Germany), M. Hoenigl, J.P. Gangneux, E. Segal, O.A. Cornely*

P1503 **Association between COVID-associated pulmonary aspergillosis and cytomegalovirus replication: a case-control study**
J. Calderon Parra (Majadahonda, Spain), P. Mills-Sánchez, V. Moreno-Torres, S. Tejado-Bravo, M. Calvo-Salvador, E. Múñez-Rubio, A. Ramos-Martínez, A. Fernandez-Cruz*

P1504 **Invasive pulmonary aspergillosis in critically ill COVID-19 patients in a tertiary hospital of Madrid, Spain**
L. Fontán García-Rodrigo (Madrid, Spain), A. Yarci Carrión, E. Navarro Lara, P.L. Gómez Sastre, L. Cardeñoso Domingo, A. Gutiérrez Cobos*

P1505 **Occurence and antifungal susceptibility of yeasts from the oral cavity of bats in Gabon**
F. Schuler (Münster, Germany), E.A. Idelevich, J. Held, J. Schaer, K. Matuschewski, F. Schaumburg*

P1506 **Genotyping points at the gastrointestinal tract as a reservoir of *Candida albicans* and *Candida parapsilosis* causing candidaemia**
A. Mesquida (Madrid, Spain), T. Vicente, C. Sánchez-Carrillo, P. Muñoz, J. Guinea, P. Escribano*

P1507 **Invasive fungal infections (IFI) in neonates and infants requiring major surgery: an Italian multi-centre cohort study**
D.U. De Rose (Rome, Italy), C. Auriti, A. Santisi, L. Martini, M.P. Ronchetti, L. Ravà, V. Antenucci, M. Ciofi Degli Atti, L. Serafini, P. Fiorini, P. Betta, S. Ferrari, M. Maino, F. Cavigioli, I. Cocchi, M. Giuffre, E. Bonanno, C. Tzialla, J. Bua, L. Pugni, B. Della Torre, G. Nardella, D. Mazzeo, P. Manzoni, A. Dotta, F. Mosca, P. Bagolan*

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6b. Diagnostic mycology (incl molecular)

P1508 ***Trichosporon asahii*** **isolated from catheter-related invasive infections reveal close clonal similarity and strong biofilm-producing capabilities**
S. Hosuru Subramanya (Pokhara, Nepal), D. Shaw, S Rudramurthy, N. Nayak*

P1509 **Artificial intelligence algorithm for automatic and objective interpretation of the semi-quantitative cryptococcal antigen lateral flow assay**
A. Alastruey-Izquierdo (Madrid, Spain), D. Bermejo-Peláez, E. Álamo, N. Medina, J.C. Soto, I. Bravo, N. Díez, E. Dacal, M. Luengo-Oroz, J.L. Rodríguez-Tudela*

P1510 **Virclia galactomannan detection in BAL for rapid diagnosis of COVID-19 associated pulmonary aspergillosis**
J. Buil (Nijmegen, Netherlands), M. Ergun, R. Van Grootveld, F.Z. Delma, W. Melchers, J. Schouten, P. Verweij*

P1511 **The performance of two point-of-care assays for the diagnosis of *Aspergillus*-associated pulmonary disease in patients undergoing broncho-alveolar lavage: a real-world evaluation**
C. Eades (Manchester, United Kingdom), G. Platt, M. Palmer, R. Richardson, M.D. Richardson, C. Kosmidis*

P1512 **Evaluation of the T2Candida panel for the diagnosis of invasive candidiasis in an adult population with suspected sepsis**
A. Ruiz-Gaitan (Valencia, Spain), J. Juaneda, I. Maz-Iglesia, M. Salavert, M.A. Chiveli, M.D. Gómez, J.L. López, J. Peman*

P1513 **Performance of *Aspergillus* galactomannan lateral flow assay for diagnosis of invasive aspergillosis**
Ö. Alhan Güncü (Istanbul, Turkey), R. Saba, E.H. Akalin, B. Ener, Z. Türe Yüce, M.M. Güncü, B. Deveci, H.N. Kahveci, A.F. Yilmaz, Z. Odabasi*

P1514 **Improving diagnosis of invasive aspergillosis in haematological patients due to *Aspergillus calidoustus***
A. Malchikova (Moscow, Russian Federation), S. Khrulnova, G. Klyasova*

P1515 **Next-generation sequencing to improve direct fungal identification in samples from patients with invasive fungal infections**
J. Menotti (Lyon, France), C. Ginevra, I. Metayer, J. Blanchard, D. Dupont, C. Miossec, E. Josse, M. Rabodonirina, M. Wallon, F. Persat, B. Simon, S. Jarraud*

P1516 **Shotgun metagenomics: a promising way for the diagnosis of hepatosplenic candidiasis?**
F. Botterel (Créteil, France), C. Angebault, C. Robin, F. Foulet, V. Parinet, F. Boquel, M.E. Bougnoux, C. Rodriguez, S. Maury*

P1517 **Rapid tetra-primer ARMS-PCR protocol for detection of Y132F mutation in azole resistant *C. parapsilosis***
S. Ozturk (Istanbul, Turkey), K. Cam, G. Babuccu, O. Dogan, M. Kuskucu, F. Can*

P1518 **Usefulness of fluconazole-supplemented chromogenic agar (FSCA) for the detection of fluconazole non-susceptible *Candida parapsilosis* (FNSCP) in clinical samples**
M.T. Martin-Gomez (Barcelona, Spain), A. Perez Ugarte, M. Belsol Alfonso, M. Gallardo Deza, A.M. Bedoya Lourido, D. Romero Herrero*

P1519 **Prospective real-life evaluation of bronchoalveolar lavage (BAL) using IMMY sōna *Aspergillus* Galactomannan lateral-flow assay (LFA) for the diagnosis of invasive pulmonary aspergillosis**
T. Ghelfenstein-Ferreira (Créteil, France), F. Boquel, F. Schlemmer, O. Jomat, C. Legouge, F. Foulet, C. Angebault, F. Botterel*

P1520 **Laboratory diagnosis of invasive fungal infections among critical ill patients with combined use of 1,3-β-D glucan with galactomannan, mannan, and molecular detection of *Aspergillus* DNA and *Candida* DNA: routine laboratory data collection 2019-2021**
G. Vrioni (Athens, Greece), S. Charpantidis, C. Tsiamis, M. Mavrouli, K. Theodoridou, A. Tsakris*

P1521 **Correlation of *Aspergillus fumigatus* DNA detection in lower respiratory samples with laboratory mycological evidence and clinical diagnosis of COVID-19-associated pulmonary aspergillosis (CAPA)**
C. Mcmurray (Leicester, United Kingdom), P. Bird, C. Holmes, R. Saunders*

P1522 **1, 3-β-D-glucan analysis in a recent cohort of patients with candidaemia using the Wako test**
M. Machado (Madrid, Spain), A. Estévez, R. Alonso, C. Sánchez-Carrillo, J. Guinea, P. Escribano, M. Valerio, B. Padilla, E. Bouza, P. Muñoz*

P1523 **Molecular diagnosis integrated platform enables a reduction of hands-on time in the detection of *Pneumocystis jirovecii***
C. Escolar (Zaragoza, Spain), B. Dehesa-García, G. Marín, S. Rößler, A. Dalpke*

P1524 **The role of β-D-glucan cut-off for diagnosis of candidaemia within internal medicine wards**
S. Corcione (Turin, Italy), N. Shbaklo, S. Scabini, C. Filippini, T. Lupia, S. Mornese Pinna, L. Chasseur, F. De Rosa*

P1525 **Diagnostic accuracy of the novel blood (1→3)-β-D-glucan test for invasive fungal diseases**
Y. Tsuchido (Kyoto, Japan), K. Mori, K. Shinohara, S. Yukawa, T. Noguchi, M. Yamamoto, Y. Matsumura, M. Nagao*

P1526 **Candiduria in COVID-19 patients?**
M.T. Peláez García De La Rasilla (Oviedo, Spain), M. Alvarez Alvarez, P. Gonzalez Moreno, L. Forcelledo Espina, S. Melón, I. Costales, D. Escudero, F. Vazquez Valdes, M.L. Sanchez*

P1527 **Comparative evaluation of pathogen's identification obtained by culture of bronchial secretions and species-specific *Aspergillus* PCR in serum of ICU patients with COVID-19-associated pulmonary aspergillosis**
J. Meletiadis (Athens, Greece), M. Siopi, S. Antonopoulou, P. Mantzana, E. Protonotariou, E. Vagiakou, L. Skoura, S. Pournaras*

P1528 **A prospective multi-centre evaluation of circulating serum galactomannan, 1,3-β-D-glucan and *Aspergillus* DNA for detection of COVID-19-associated pulmonary aspergillosis in ICU patients in Greece**
J. Meletiadis (Athens, Greece), M. Siopi, S. Antonopoulou, P. Mantzana, E. Protonotariou, E. Vagiakou, L. Skoura, S. Pournaras*

P1529 **Increased cases of *Candida auris* infection from various hospitals in Turkey during the COVID-19 pandemic**
N. Karabiçak (Ankara, Turkey), Y. Tezer Tekçe, S. Kömeç, N. Alem Tekinaslan, F. Bayrakdar, M. Yücel, E.N. Namli Bozkurt*

P1530 **Novel blood culture medium formulation improves *Candida albicans* detection**
P. L'Aour-Dufour (Lyon, France), T. Cecchini, F. Deforet, O. Dauwalder, F. Vandenesch*

P1531 **Immunological markers of inflammation in asthma patients with sensitisation to *Aspergillus* spp.**
N. Klimko (Saint Petersburg, Russian Federation), Y. Kozlova, E. Frolova, A. Uchevatkina, L. Filippova, O. Aak, V. Kuznetsov, N. Vasilyeva*

P1532 **A COVID-19 associated pulmonary aspergillosis screening protocol implemented in a large, multi-site critical care department; early results from a pilot**
G. Winzor (Birmingham, United Kingdom), E. Birkhamshaw, R. Khalil, N. Wickramasinghe, M. Hamad, N. Crooks, M. O'shea*

P1533 **Clinical performance evaluation of a noval monotest galactomannan detection in the diagnosis of invasive *Aspergillus***
H. Yu (Chengdu, China)*

P1534 **The diagnostic value of fully automatic instrument for (1-3) -β-d-glucan test in patients with tumour**
P.Q. Zhuang (Guangzhou, China)*

P1535 **Diagnostic accuracy of three different methodologies for galactomannan**
X.L. Xu (Xian, China)*

P1536 **Cryptococcal antigen ELISA, CLIA and LFA test kits for the diagnosis of cryptococcal infection: an update**
H. Wang (Tianjin, China), C.L. Liu, J. Peng, J.Y. Du, Y. Zhang, Z.Q. Zhou*

P1537 **Accuracy of *Pneumocystis jirovecii* plasma cell-free DNA PCR for non-invasive diagnosis of pneumocystis pneumoniae**
A. Moreno (Palo Alto, United States), N. Banaei, I. Budvytiene, D. Epstein*

P1538 **The impact of pan-fungal PCR results in the management of invasive fungal disease in a tertiary healthcare centre**
A. Craggs (Cambridge, United Kingdom), K. Sharrocks, N. Tyler, C. Micallef, D. Enoch, V. Wong*

P1539 **Technical evaluation of commercial real-time PCR in comparison to two in-house Mucorales-specific real-time PCR assays**
D. Goldenberger (Basel, Switzerland), V. Hinic, K. Kalinowski, A. Egli*

P1540 **Research on CrAg LFA detection in diagnosis of genetic diversity in *Cryptococcus* infections**
X. Xu (Xian, China)*

P1541 **Lateral flow analysis combined with immunochromatography analyser for aspergillosis galactomannan quantitative detection**
Y. Ni (Shanghai, China)*

P1542 **Rapid identification of invasive fungal disease via a multi-channel qPCR melting curve analysis**
Z.X. Wang (Tianjin, China), S.L. Li, Y. Zhang, X.Y. Yan, J.Y. Du*

P1543 **A novel multiplex PCR assay with melting curve analysis for rapid detection of azole-resistant *Aspergillus fumigatus***
Z.X. Wang (Tianjin, China), S.L. Li, Y. Zhang, X.Y. Yan*

P1544 **Aspergillus galactomannan antigen testing during the pandemic**
S. Karabela (Athens, Greece), I. Marinou, S. Mavrea, S. Savvas, V. Perdiou, E. Georgakopoulou, T. Kypriou*

P1545 **Comparison of the performance of four cryptococcal antigen kits**
H. Wang (Tianjin, China), J. Peng, J.Y. Du, Y. Zhang, Y. Su*

P1546 **Improving dermatophytes identification in a clinical microbiology laboratory by routine use of MALDI TOF MS direct transfer method: experience from Serbia**
I. Cirkovic (Belgrade, Serbia), S. Brkic, D. Božic, D. Topalov*

P1547 **Detection of moulds and mycotoxins in maize flour and dairy products in Zenica, Bosnia and Herzegovina**
A. Ibrahimagic (Zenica, Bosnia and Herzegovina), C. Kovac, A. Salkic, E. Idrizovic, M. Gladan, S. Uzunovic*

P1548 **A review of the inter-laboratory variability of caspofungin MICs for *Nakaseomyces glabrata* isolates**
S. Ali (Dublin, Ireland), M. Collison, S. Mc Nicholas, S. Mc Dermott*

P1549 ***Candida auris* quasi-metagenomic detection and rapid clade profiling by nanopore sequencing**
K.K.K. Ko (Singapore, Singapore), C. Suphavilai, K.M. Lim, S.S. Goh, J.J.K. Chu, M.G. Tan, J.H.C. Sim, Y.E. Tan, K.R. Chng, N. Nagarajan*

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6c. Antifungal drugs & treatment (incl clinical trials)

P1550 **The FURI study: patient outcomes after treatment with oral ibrexafungerp based on prior antifungal therapy and patient enrollment criteria**
O. Cornely (Cologne, Germany), T. King, N. Azie, D. Angulo*

P1551 **Optimising antifungal stewardship interventions: a multi-centre analysis of candidaemia management and clinical outcomes**
L. Cottom (Glasgow, United Kingdom), R. Dhillon, B. Jones*

P1552 **PEG-15-hydroxystearate non-ionic surfactant enhances amphotericin B activity against Mucorales *in vitro***
K. Brunet (Poitiers, France), D. Cheikh Ahmadou Bamba, A. Chauzy, N. Prebonnaud, W. Couet, S. Marchand, B. Rammaert, F. Tewes*

P1553 **Fungicidal activity of serum from patients on anidulafungin therapy against *Candida parapsilosis* and *Candida glabrata* isolates**
J. Meletiadis (Athens, Greece), M.I. Beredaki, M. Siopi, O. Apostolopoulou, G. Dimopoulos, S. Pournaras*

P1554 **The efficacy of ceragenins against first *Candida auris* strains isolated in Turkey**
B. Alkan (Istanbul, Turkey), O. Oyardi, S. Komec, G. Genc Erkose, G. Aygun, L. Teke, D. Turan, Z. Erturan, P. Savage, C. Bozkurt Guzel*

P1555 **Impact of early antifungal initiation on clinical outcomes in critically ill patients with candidaemia**
D. Holger (Detroit, United States), A. Lagnf, S. Alosaimy, N. Rebold, T. Morrisette, A. Belza, A. Kunz Coyne, A. El Ghali, D. Newlun, W. Kufel, K. Stover, M. Rybak*

P1556 **Ellagic acid, a new substance for treating *Candida* species**
J. Jun (Moroyama, Japan), T. Norihito, O. Hideaki, M. Shigefumi*

P1557 **Tolerability of pulse high dose liposomal amphotericin B as preemptive therapy in patients with high risk for intra-abdominal candidiasis. Preliminary report of LAMBDA Study: an ongoing phase II study**
B. Tazza (Bologna, Italy), M. Rinaldi, C. Bonazzetti, B. Granozzi, C. Solera Horna, N. Caroccia, M. Bartoletti, M. Giannella, P. Viale*

P1558 **Prospective study on posaconazol TDM in critically ill patients**
M. Göpfert (Hamburg, Germany), D. Wichmann, C. König, H. Jungen*

P1559 **Short course of antifungal therapy in non-complicated candidaemia: another case of less is more in the clinical setting?**
S. Tutino (Genoa, Italy), A. Santagostino Barbone, L. Mezzogori, F. Baldi, L. Labate, S. Dettori, C. Russo, D.R. Giacobbe, C. Dentone, L. Magnasco, M. Mikulska, L. Taramasso, A. Di Biagio, A. Vena, F. Bovis, M. Bassetti*

P1560 **Genome-scale metabolic model of the human pathogen *Candida auris*: computational approach to finding new drug targets**
R. Viana (Lisbon, Portugal), D. Couceiro, T. Carreiro, C. Souza, O. Dias, I. Rocha, C.M. Soares, M.C. Teixeira*

P1561 **Evaluation of the new VITEK-2 antifungal susceptibility system, AST-YS08 card with broth microdilution methods using clinical isolates of *Candida* species**
J.Y. Kim (Incheon, Korea, Republic of), H. Lee, G.H. Sung, H.K. Lee, J.H. Shin, C.H. Lee, S.W. Ryu*

P1562 **Oral ibrexafungerp outcomes in patients with invasive candidiasis and candidaemia from the FURI and CARES Studies**
O. Cornely (Cologne, Germany), P. Pappas, T. King, N. Azie, D. Angulo*

P1563 **COVID-19 associated mucormycosis (CAM) in Russian Federation: results of prospective multi-centre study**
N. Klimko (Saint Petersburg, Russian Federation), S. Khostelidi, V. Zaytsev, G. Evtukh, N. Nicitin, S. Vartanyan, E. Dulaeva, O. Shadrivova, O. Kozlova, U. Borzova, E. Desyatik, Bogomolova, Y. Avdeenko, M. Popova, L. Zubarovskaya*

P1564 **Prophylactic isavuconazole for invasive fungal infections: results from a systematic literature review**
Y. Ping (Beijing, China), J. Hongmei, C. Bellmann, M. Inês, T. Macmillan, N. Webb, J.A. Aram, O. Penack*

P1565 **Drug-drug interactions in patients treated for COVID-19-associated pulmonary aspergillosis: a review of queries to the COVID-19 interaction checker**
D. Burger (Nijmegen, Netherlands), C. Huijbers, A. Jansen, J. Chiong, S. Khoo, D. Back, M. Reijers, T. Frenzel, F. Van De Veerdonk, P. Pickkers, P. Verweij, R. Bruggemann*

P1566 ***In vitro* activity of manogepix against *Lomentospora prolificans, Scedosporium apiospermum, Pseudallescheria boydii* and other rare moulds**
L. Kirchhoff (Essen, Germany), S. Dittmer, P.M. Rath, J. Steinman, H.L. Verhasselt*

P1567 **Comparison of COVID-associated pulmonary aspergillosis and invasive aspergillosis in haematological patients**
N. Klimko (Saint Petersburg, Russian Federation), O. Shadrivova, D. Gusev, M. Vashukova, D. Lobzin, V. Gusarov, M. Zamyatin, A. Zavrazhnov, M. Mitichkin, O. Kozlova, E. Desyatik, E. Burygina, S. Ignatyeva, E. Oganesyan, O. Uspenskaya, S. Khostelidi, E. Shagdileeva, Y. Borzova, N. Vasilyeva*

P1568 **Plasma and cerebrospinal fluid (csf) concentrations of micafungin administered at high dosage in critically ill infants with systemic candidiasis**
C. Auriti (Rome, Italy), I. Bersani, D.U. De Rose, F. Piersigilli, S. Cairoli, A. Portanova, A. Dotta, A. Desai, L. Kovanda, P. Bagolan, B.M. Goffredo*

P1569 **Systemic antifungal therapy for esophageal candidiasis: systematic review and meta-analysis of randomised controlled trials**
A. Atamna (Petah Tikva, Israel), H. Atamna Mwassi, D. Yahav, G. Ayada, S. Matsri, I. Margalit, L. Shargian, J. Bishara*

P1570 **EQUAL *Trichosporon* Score: a ECMM score to measure quality of the clinical management of invasive *Trichosporon* infections**
R. Sprute (Cologne, Germany), O.A. Cornely*

P1571 **Safety and clinical outcomes associated with high-dose micafungin for proven invasive fungal disease**
V. Grant (Loma Linda, United States), K. Nguyen, S. Rodriguez, A. Zhou, J. Abdul-Mutakabbir, K. Tan*

P1572 **A porcine skin infection model to study novel treatments for fungal skin infections**
A. Bolhuis (Bath, United Kingdom), F.K.H. Ho, B. Delgado-Charro*

P1573 **Itraconazole reduces exacerbations in bronchiectasis with positive aspergillus serology/microbiology in the absence of asthma/ABPA**
C. Kosmidis (Manchester, United Kingdom), M. Vernon, A. Beech, A. Mathioudakis, C. Harris, D.W. Denning*

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6d. Antifungal resistance & susceptibility testing (incl surveillance)

P1574 **Antifungal susceptibility of *Candida* spp. isolated from haematological and non-haematological patients in ten centres of Russia**
G. Klyasova (Moscow, Russian Federation), A. Malchikova, I. Molchanova, O. Kutsevalova, M. Maschan, A. Vetokhina, T. Chernenkaya, N. Zvezdkina, O. Khoreva, L. Kraynova, S. Shushurina*

P1575 **The emergence of multidrug-resistant *Candida Pseudohaemulonii*: using whole genome sequencing to describe genome structure**
C. Xin-Fei (Beijing, China), X. Meng, J. Xin-Miao, H. Xin, X. Ying-Chun*

P1576 **Nationwide surveillance of azole resistance in *Aspergillus* October 2020 to September 2021**
M. Arendrup (Copenhagen, Denmark), R.K. Hare, J.B. Gertsen, K.M. Jørgensen, L. Kristensen, F. Rosenvinge, S. Sulim, N. Abou-Chakra, J. Bangsborg, B.L. Røder, E.S. Marmolin, M. Pedersen, E. Dzajic, S.L. Andersen, K.M.T. Astvad*

P1577 **High prevalence of azole resistance among *Aspergillus fumigatus* isolates found in environmental airborn samples**
J.C. Soto-Debrán (Madrid, Spain), L. López-Pérez, F.J. Sanchez-Iñigo, S. García Dos Santos-Alves, L. Alcazar-Fouli, A. Alastruey-Izquierdo*

P1578 **Antiseptic activity of octenidine against clinical isolates of different dermatophyte species *in vitro***
M. Schabransky (Vienna, Austria), K. Spettel, R. Kriz, A. Irnberger, H. Tiefenbrunner, D. Bumberger, B. Willinger*

P1579 **Novel azole resistance mechanism of *Trichosporon asahii* revealed by transcriptome analysis**
S. Yu (Beijing, China), X.Y.C.P.U. Yingchun*

P1580 ***Trichophyton* spp. susceptibility testing using an agar-based screening method for terbinafine, itraconazole and amorolfine**
G. Vrioni (Athens, Greece), S. Charpantidis, M. Siopi, K. Theodoridou, I. Daniil, J. Meletiadis, S. Grigoriou, A. Tsakris*

P1581 **Systematic molecular and genetic basis of fluconazole resistance in the opportunistic pathogenic fungus *Candida parapsilosis***
Y.T. Ning (Beijing, China), L. Zhang, Y.C. Xu*

P1582 **Tentative cut-off MIC values using gradient diffusion plastic strips: accurate detection of azole resistance in *Aspergillus fumigatus sensu stricto***
J. Guinea (Madrid, Spain), J. Serrano-Lobo, A. Gómez, E. Reigadas, P. Muñoz, P. Escribano*

P1583 **A french multi-centre prospective study of terbinafine resistance**
A. Moreno Sabater (Paris, France), A.C. Normand, A.L. Bidaud, G. Cremer, F. Foulet, S. Brun, C. Bonnal, N. Ait Ammar, A. Jabet, R. Piarroux, F. Botterel, S. Houzé, C. Hennequin, E. Dannaoui*

P1584 **Species identification and antifungal susceptibility testing of *Aspergillus* strains isolated from patients with otomycosis in northern China**
Y.C. Xu (Beijing, China), R. Jing, W.H. Yang, M. Xiao, Y. Li, G.L. Zou, C.Y. Wang, X\.W. Li, P.R. Hsueh*

P1585 **COVID-19 and the risk of candidaemia due to fluconazole-resistant *C. parapsilosis***
A. Ramos-Martinez (Majadahonda, Spain), I. Pintos, A. Gutiérrez, E. Gutiérrez, J. Guinea, J. Díaz-García, I. Sánchez-Romero, A. Fernández-Cruz, L. Parra-Ramírez, M. Muñoz-Algarra, E. Múñez, A. Asensio, J. Calderón-Parra*

P1586 **First case of skin infection due to *Candida sorboxylosa***
C. Xin-Fei (Beijing, China), H. Jing-Jing, X. Ying-Chun*

P1587 **Antifungal susceptibility profiles and drug resistance mechanisms of clinical *Candida duobushaemulonii* isolates in China**
C. Xin-Fei (Beijing, China), J. Xin-Miao, X. Meng, H. Xin, H. Jing-Jing, Y. Shu-Ying, X. Ying-Chun*

P1588 **MDR *C. glabrata* and amphotericin B: the last resort?**
A.M. Aldejohann (Würzburg, Germany), E. Huprich, H. Wilhelm, C. Müller, G. Walther, A. Martinez, C. Coumo, O. Kurzai, R. Martin*

P1589 **The sphingolipid biosynthesis inhibitor myriocin increases antifungal drug susceptibility of *Candida auris***
R. Martin (Würzburg, Germany), H. Stieber, H. Wilhelm, L. Junghanns, O. Kurzai*

P1590 **Antiseptic activity and antimicrobial (cross)resistance on clinical *Candida* spp. isolates upon long-term exposure *in vitro***
D. Bumberger (Vienna, Austria), K. Spettel, R. Kriz, M. Reutterer, I. Camp, B. Willinger*

P1591 **Evaluation of *Candida* colonisation index, species distribution and antifungal susceptibility pattern of *Candida* species isolated from patients in the Children Medical Center in Tehran**
M. Moazeni (Sari, Iran, Islamic Republic of), A. Davari, M.T. Hedayati, B. Nikmanesh, M. Nabili*

P1592 ***In vitro* synergistic effects of *Lippia origanoides* essential oil or thymol with fluconazole against sensitive and resistant *Candida tropicalis* strains**
C. Zapata-Zapata (Medellín, Colombia), W. Quintero, L.T. García, A.C. Mesa-Arango*

P1593 **Analysis of resistance in antifungals (ARIA): surveillance of *Candida* spp. isolates collected from Europe in 2019**
S. Hawser (Monthey, Switzerland), I. Morrissey, N. Kothari, M. Ghannoum*

P1594 **Mutation in FKS1: a novel genetic determinant of clinical pan-echinocandin resistance in *Candida parapsilosis* complex**
Y.T. Ning (Beijing, China), L. Zhang, Y.C. Xu*

P1595 **Antifungal susceptibility profiles and resistance mechanisms of clinical *Diutina catenulata* isolates with high MIC values**
C. Xin-Fei (Beijing, China), Z. Wei, H. Xin, X. Ying-Chun*

P1596 **Candimad study: evidence a fluconazole-resistant *C. parapsilosis* clone spreading across hospitals located in Madrid, Spain**
J. Díaz-García (Madrid, Spain), M. Muñoz-Algarra, F. González-Romo, A. Pérez-Ayala, A. Sánchez-García, I. Sánchez-Romero, P. Merino-Amador, A. Gómez, P. Muñoz, P. Escribano, J. Guinea*

P1597 **Molecular identification and antifungal susceptibility profile of *Candida* species, Iranian clinical isolates**
M.H. Khadem Ansari (Urmia, Iran, Islamic Republic of), K. Diba, K. Makhdoomi, S. Hallaj*

P1598 **Azole resistance screening in *Aspergillus fumigatus* using azole-containing agar plates (EUCAST E.Def 10.1). Good news for the routine clinical mycology! Filtration of inoculum suspensions is not needed**
J. Guinea (Madrid, Spain), J. Serrano-Lobo, A. Gómez, E. Reigadas, P. Muñoz, P. Escribano*

P1599 **Predictors of mortality attributable to candidaemia caused by fluconazole-non susceptible *Candida parapsilosis*: a 13-year hospital experience**
E.J. Won (Gwangju, Korea, Republic of), J.H. Byun, D. Kim, M.J. Choi, S.A. Byun, D. Yong, J.H. Shin*

P1600 **F659 and F659S mutations at the HS1 of *fks2* gene correlate with high ibrexafungerp MICs against *Candida glabrata***
A. Mesquida (Madrid, Spain), J. Díaz-García, C. Sánchez-Carrillo, P. Muñoz, P. Escribano, J. Guinea*

P1601 **Olorofim MIC values against *A. fumigatus* obtained using EUCAST E.Def 9.3.2 procedure and spectrophotometric reading: agreements with visual reading are highly dependent on the wavelength used and fungal inhibition growth endpoint**
J. Guinea (Madrid, Spain), P. Escribano, A. Gómez, E. Reigadas, M. Patricia*

P1602 ***In vitro* activity of olorofim against *Scedosporium/ Lomentospora* spp Spanish clinical isolates obtained using EUCAST E.Def 9.3.2 procedure**
J. Guinea (Madrid, Spain), P. Escribano, A. Gómez, E. Reigadas, A. Álvarez-Uría, P. Muñoz*

PS045

6e. Basic mycology (incl *in vitro* and *in vivo* studies, pathogenesis)

P1603 **The emergence of multidrug-resistant *Candida auris* in China: using whole genome sequencing to describe the population structure**
C. Xin-Fei (Beijing, China), J. Xin-Miao, X. Meng, H. Xin, X. Ying-Chun*

P1604 **Revisiting the *Candida haemulonii* species complex: insights into the molecular characteristics and antifungal susceptibility**
S.L. Lima (São Paulo, Brazil), E.C. Francisco, A.S.A. Melo, A.L. Colombo, F. Hagen*

P1605 **Identification of adhesins within the mannoprotein and flocculin families in the emergent fungal pathogen *Trichosporon asahii***
A.C.B. Padovan (Alfenas, Brazil), D.C. Quinto, G.D.S. Gagliano, M.J.M.D. Santos*

P1606 **Assessing the adhesion and invasiveness of *Prototheca* species towards murine keratinocytes**
A. Proskurnicka (Warsaw, Poland), J. Grzedzicka, K. Zakrzewski, A. Kwiatek, T. Jagielski*

P1607 ***In situ* expression of TNF-α and IL-10 in human dermatophytosis lesions due to *Trichophyton rubrum***
F. Fernandes Correia (São Paulo, Brazil), A.P. Reis, D. Moreira, G. Celestrino, C. Pagliare, N. Valente, W. Júnior, P. Criado, G. Benard, M.G. Sousa*

P1608 **Trends and mechanisms of azole induced *in vivo* microevolution in *Candida parapsilosis***
Y.T. Ning (Beijing, China), T.S. Sun, L. Zhang, Y.C. Xu*

Poster presentation time for **7. Parasitic diseases & global health**
Monday, 25.04.2022 12:00 - 13:00

PS046

7a. Diagnostic parasitology

P1609 **Evaluation of potential point-of-care DNA extraction methods for the detection of *Leishmania* species**
H. Brekke (Oslo, Norway), G. Løvgården, C. Fladeby, A.M. Taxt, N. Berhe, F.O. Pettersen, F. Muller*

P1610 **Comparative performances of automated parasites detection approach and conventional methods in a monocentric prospective study**
F. Botterel (Créteil, France), S. Suyyagh-Albouz, F. Foulet, F. Boquel, E. Djenontin-Agossou, L. Monpierre, N. Ait-Ammar, F. Guillemet, C. Cabon, R. Durand, C. Angebault*

P1611 ***Ascaris lumbricoides* as possible factors contributing to pulmonary aspergillosis development in chronic obstructive pulmonary disease patients**
M. Shaislamova (Tashkent, Uzbekistan), A. Toychiev, M. Zalyalieva, S. Osipova*

P1612 **The first international external quality assessment scheme for detection of *Acanthamoeba* trophozoites and cysts by PCR allows laboratories to compare methodologies and improve their diagnostic techniques for *Acanthamoeba* keratitis**
M. Sarink (Rotterdam, Netherlands), R. Koelewijn, F. Stelma, T. Kortbeek, L. Van Lieshout, A. Tielens, J. Van Hellemond*

P1613 **Diagnostic challenges of *Strongyloides stercoralis* infection: alternative diagnostic approaches**
T. Hailu (Bahir Dar City, Ethiopia), A. Amor, E. Nibret, A. Munshea, M. Anegagrie, M.D. Flores-Chavez, T.H. Ta Tang, J.M. Saugar, A. Benito*

P1614 **Evaluation of a commercial multiplex rt-PCR assay for the molecular diagnosis of intestinal helminths**
E. Pomari (Negrar Di Valpolicella, Italy), M. Leonardi, G. La Marca, B. Pajola, F. Formenti, F. Perandin*

P1615 **Cryptic leishmaniasis in kidney transplant recipients: evaluation of strategies for screening and monitoring.**
A.M. De Pascali (Bologna, Italy), A. Deni, H. Rasson, G. Comai, F. Ferrara, M. Busutti, G. La Manna, L. Zammarchi, A. Bartoloni, L. Caroti, A.V. Ibarra-Meneses, E. Carrillo, S. Varani*

PS047

7b. Antiparasitic susceptibility & resistance

PS048

7c. Antiparasitic drugs & treatment

P1616 **Anti-cryptosporidium effect of new hybrid resveratrol nanocomposite in immunocompromised mice**
A.A. El-Badry (Cairo, Egypt), R.Y. Al-Jindan, R. Jermy, E.S. El-Wakil*

P1617 **Investigation of anti-malarial effect of artesunate conjugated with graphene quantom dot on *Plasmodium falciparum***
F. Tabatabaie (Tehran, Iran, Islamic Republic of), H. Torkashvand*

P1618 ***In vitro* anti-leishmanial activity of chitosan-ZnO nano composite against *Leishmania* major**
F. Tabatabaie (Tehran, Iran, Islamic Republic of), M. Mahmoudi*

P1619 **Evaluation anti-malaria effect of naja oxiana snake venom by qPCR *in vitro***
F. Tabatabaie (Tehran, Iran, Islamic Republic of)*

PS049

7d. Parasitic disease epidemiology

P1620 **Spatial analysis of the occurrence of fascioliasis bovine for defining priority areas for implementing control measures in the state of Rio de Janeiro, Brazil**
L. Silva (Rio De Janeiro, Brazil), C. Milhomens, C. Oliveira*

P1621 **Value of universal screening for *Entamoeba histolytica* in a non-endemic population**
C.W. Holmes (Leicester, United Kingdom), P.W. Bird, D.E. Modha, R. Halliwell, H. Patel, F.H. Lim*

P1622 **Clinical and epidemiological characteristics of cystic echinococcosis of the liver in children according to the data of Syzganov National Institute of Surgery (2016-2020)**
G. Doszhanova (Almaty, Kazakhstan), A. Duisenova, A. Katarbayev, A. Sadykova, A. Mustapayeva*

P1623 ***Blastocystis* sp. is very rare in faeces of children with Crohn's disease: quantity, subtyping and association with the faecal bacteriome**
J. Hurych (Prague, Czech Republic), L. Vodolanova, T. Lerchova, M. Kubat, H. Malcova, D. Cebecauerova, O. Hradsky, J. Bronsky, O. Cinek*

P1624 ***Strongyloides stercoralis* infection and associated clinical symptoms among apparently healthy schoolchildren in northwest Ethiopia**
T. Hailu (Bahir Dar City, Ethiopia), A. Amor, E. Nibret, A. Munshea, M. Anegagrie, M.D. Flores-Chavez, T.H. Ta Tang, J.M. Saugar, A. Benito*

P1625 **Malaria in the Colombian Pacific**
J.M. Hernandez Sarmiento (Medellin, Colombia), P.A. Pizarro Marin, S. Vera Henao, A.F. Jimenez Cartagena, M. Perez Villa, G.M. Ortiz Muñoz, J.S. Zuluaga Giraldo*

P1626 **Towards implication of *Sergentomyia* genus (Diptera: Psychodidae) in the transmission of *Leishmania* (Kinetoplastida: Trypanosomatidae)**
L. Remadi (Monastir, Tunisia), D. Farjallah, H. Baba, S. Belgacem, N. Chargui, H. Babba, N. Haouas*

P1627 **Prevalence of toxoplasmosis in heart transplant recipients: a 10-year survey in a French transplantation centre**
F. Robert-Gangneux (Rennes, France), S. Arkhis, B. Lelong, C. Chabanne, E. Flecher*

P1628 **A retrospective analysis of tegumentary leishmaniasis in northeastern Italy**
T. Gritti (Bologna, Italy), V. Gaspari, A. Santi, G. Galletti, A. Rossi, A. Mattivi, G. Matteo, G. Mattei, G. Belloli, M. Ortalli, S. Varani*

P1629 **Prevalence of liver cystic Echinococcosis among close contacts of a member infected with CE in a livestock community from Peruvian highlands**
S. Santivanez (Huancayo, Peru), J. Acosta Barriga, M. Eguiluz Moya, A. Osorio Condezo, R. Montalvo Otivo, M. Hernandez Zevallos, S. Ochoa Sosa*

P1630 **Seroprevalence and microscopy detection rates of strongyloidiasis in Croatian patients with eosinophilia**
M. Sviben (Zagreb, Croatia), T. Meštrovic, M. Balen-Topic, S. Ljubin-Sternak*

P1631 ***Dientamoeba fragilis*: are we overlooking this parasite?**
N. Hernando Parreño (Santa Cruz De Tenerife, Spain), C. Mateo León, C. Palacios Clar, M.R. Sánchez Flórez*

P1632 **Pathological role of *Blastocystis hominis* and *Dientamoeba fragilis* in children**
S. Mormeneo Bayo (Lleida, Spain), E. López, I. Prats, M.L. Cruellas, A. Bellés Bellés, P. Recuero, J. Aramburu, A. Bernet, M. Garcia*

PS050

7e. Travel medicine & migrant health

P1633 **The impact of social media and misinformation on migrant and ethnic minority populations and their response to the COVID-19 pandemic**
L.P. Goldsmith (London, United Kingdom), M. Rowland-Pomp, A. Deal, A.F. Crawshaw, S.E. Hayward, K. Rustage, S. Hargreaves*

P1634 **Catch-up vaccination among recently arrived migrants to the UK: a qualitative study and rapid review to explore strategies to increase uptake**
A. Deal (London, United Kingdom), A. Crawshaw, M. Salloum, S. Hayward, F. Knights, N. Mashal, H. Osama, G. Lucy, C. Jess, R. Kieran, M.J. Sandra, H. Sally*

P1635 **Trends in the population at risk of *Trypanosoma cruzi* infection in a non-endemic country over 17 years: evaluation of organ damage and epidemiological profile**
I. Losada-Galván (Barcelona, Spain), P. Laynez-Roldan, E. Posada, L. De La Torre Ávila, A. Casellas, S. Sanz, N. Rodriguez-Valero, D. Camprubí-Ferrer, I. Vera, M. Roldán, J. Gascom, C. Subirà, E. Aldasoro, I. Oliveira-Souto, M.E. Valls, J. Muñoz, M.J. Álvarez-Martínez, A. Calvo-Cano, M. Gallegò, A. Abras, C. Ballart, M.J. Pinazo*

P1636 **Epidemiological characterisation of malaria-imported cases in Brazil's extra-Amazon region, 2017-2021**
K.K.S. Garcia (Brasília, Brazil), A.A. Abrahão*

P1637 **Impact of COVID-19 pandemic in Chagas disease screening and diagnosis in a non-endemic area**
L. Fernández-Delgado (Barcelona, Spain), G. Rodriguez-Sevilla, P. Ciruela, L. Solsona, G. López De Egea, C. Rodriguez García, N. Panadero, L. Calatayud, M.A. Dominguez, E. Dopico*

P1638 **The epidemiology of malaria in a high-income low prevalence country before and during the COVID-19 pandemic**
A. Lieu (Calgary, Canada), J. Mah, N. Desgagnés, D. Pillai*

P1639 **Climate defines the bounds of the spatio-temporal distribution of malaria and meningitis in different ecological zones**
A. Ayanlade (Ile-Ife, Nigeria), P. Di Carlo, C.M. Sergi*

PS051

7f. Food & water safety and environmental health

P1640 ***Giardia* spp. in wild murids (rodentia) from Corsica, France**
K. García-Livia (San Cristóbal De La Laguna, Spain), Á. Fernández-Álvarez, C. Feliu, J. Miquel, A.J.S. Bakhoum, A. Falchi, N. Martín-Carrillo, E. Izquierdo-Rodríguez, Y. Quilichini, P. Foronda*

P1641 **Prevalence and molecular identification of Anisakidae larvae in *Scomber scombrus* and *Merluccius merluccius* from the Canary markets**
N. Martín-Carrillo (San Cristobal De La Laguna, Spain), K. García-Livia, N. Abreu-Acosta, E. Abreu-Yanes, E. Baz-González, E. Izquiero-Rodriguez, R. Pino-Vera, R. Dorta-Guerra, P. Foronda*

P1642 **Zoonotic pathogens in the invasive crayfish *Procambarus clarkii* in the Canary Islands, Spain**
P. Foronda (La Laguna, Spain), N. Abreu-Acosta, N. Martin-Carrillo, E. Baz-Gonzalez, E. Izquierdo-Rodriguez, R. Pino-Vera, K. Garcia-Livia, E. Abreu-Yanes, A.R. Virginia, M.A. Quispe-Riclade*

P1643 **Prevalence of *Toxoplasma*-like oocysts in feral cats (*Felis catus*) from the Canary Islands, Spain.**
E. Baz-González (San Cristóbal De La Laguna, Spain), N. Martín-Carrillo, K. García-Livia, R. Pino-Vera, E. Izquierdo-Rodríguez, E. Abreu-Yanes, N. Abreu-Acosta, P. Foronda-Rodríguez*

P1644 **Zoonotic enteropathogens present in feral ferrets *Mustela putorius furo* in the Canary Island, Spain**
R. Pino-Vera (San Cristóbal De La Laguna, Spain), N. Abreu-Acosta, E. Izquierdo-Rodríguez, E. Baz-González, N. Martin-Carillo, K. García-Livia, E. Abreu-Yanes, P. Foronda*

P1645 **Entomological diagnosis of identification of larval hatcheries of *Aedes* spp. *Culex* spp. and *Anopheles* spp. in suburban and urban areas of Colombian Pacific Coast between the months of October 2018 and September 2019**
A.M. Gomez Gomez (Medellin, Colombia), J.M. Hernandez Sarmiento, C.C. Castrillon Cardona, M.I. Patiño Zuluaga, M. Perez Villa, M. Escobar Velez, G.M. Ortiz Muñoz, J.S. Zuluaga Giraldo*

P1646 **Microbiome of free-living amoebae (FLA) present in organic vegetables: a potential risk to public health?**
Y. Moreno (Valencia, Spain), L. Moreno-Mesonero, I. Amorós, J.L. Alonso, M.A. Ferrús*

PS052

7g. Global health, public health

P1647 **Do we really know the burden of human cystic echinococcosis in Europe? A systematic review approach**
A. Casulli (Rome, Italy), F. Santolamazza, A. Santoro, A. Massolo*

PS053

7h. Infections in low-resource settings

P1648 **Trends in *Trypanosoma cruzi* parasite load in people living in non-endemic area, Spain**
M. Flores-Chavez (Majadahonda, Spain), A. Abras, C. Ballart, I. Ibañez, M. Gállego, C. Muñoz, E. Sulleiro, J. Nieto, E. García, L. Simón, I. Cruz, A. Picado*

P1649 **Scientific literature on neglected tropical diseases: a quantitative analysis**
G. Tebano (Forlì, Italy), P. Muratori*

Poster presentation time for **8. Healthcare-associated infections, infection prevention & control** Sunday, 24.04.2022 12:00 - 13:00

PS054

8a. Intravascular catheter-related infections

P1650 **Healthcare-associated infections outcomes of COVID-19 patients hospitalised in a Brazilian intensive care unit**
C. Rodrigues (Belo Horizonte, Brazil), W. Clemente, R. Maciel, F. Scalabrini, S. Grossi, N. Miranda, S. Barbosa, G. Stancioli, L. Dansan, M. Castro*

P1651 **A prospective multi-centre observational study of insertion and use of central lines in the intensive care unit**
A.S. Valentin (Tours, France), A. Petiteau, F. Goube, M. Farizon, A. Allaire, F. Barbut, V. Barry-Perdereau, M. Bataille, P. Baune, M. Blanie, M. Bounoua, S. Bourdon, V. Brean, C. Burnat, A. Cado, I. Cattaneo, V. Caverivière, A. Cécille, H. Dalmas, D. Deffarges, F. Diaw, A.M. De Tullio, M. Durand, S. Edouard, E. Elghouati, F. Espinasse, M. Fevre, S. Filiatre, J.P. Genillon, C. Gerbier-André, J. Goram, C. Gouin, M.C. Gramer, C. Granat, B. Grisi, F. Guasp, F. Janvier, S. Jeandot-Bonjean, S. Joron, B. Laurent, D. Lecointe, M. Lecuru, P. Leduc, C. Lesteven, C. Le Heurt, M. Llorens, A. Lotthe, N. Moreau, A. Perez, A. Plaveret, C. Ragot, L. Ranglaret, O. Raposo, L. Renaudin, C. Rimpici, I. Rousseaux, M. Roussel, M. Roy, T. Sevin, C. Theaude, V. Touront, C. Vescovali, M. Venelle, C. Victoire, S. Yahia, O. Zamfir, M. Zucali, N. Van Der Mee-Marquet*

P1652 **Clinical outcome of totally implantable venous-access port-related infections due to Gram-negative aerobic bacilli: a monocentric retrospective observational study**
D. Lebeaux (Paris, France), S. Rolland, N. Kassis-Chikhani, E. Auclin, S. Bensaid, M.P. Gerlinger, D. Blez, J.L. Mainardi, M. Dubert*

P1653 **Risk factors for central venous catheter-related bloodstream infections: room for improvement with patients on TPN in primary hospitals**
T.I.I. Van Der Kooi (Bilthoven, Netherlands), T.E.M. Hopmans, S.M. Van Rooden, S.C. De Greeff*

P1654 **Incidence and risk factors for local complications of peripheral venous catheters in patients 80 years and older**
E. Gras (Paris, France), A. Jean, V. Rocher, Y. Tran, S. Katsahian, C. Dano, J. Cedile, D. Manar, D. Jouclas, N. Kassis Chikhani, J. Le Guen, C. Dilliers, D. Lebeaux*

P1655 **Characteristics of *Enterococcus faecium* and *Enterococcus faecalis* bloodstream infections at a Germany university clinic: results of retrospective analysis (2009-2019)**
C. Baier (Hannover, Germany), C. Tonin, M. Kramer, F.C. Bange, F. Schwab, E. Ebadi*

P1656 **Prospective observational study on the role of catheter colonisation and multidrug-resistance associated with catheter-related bloodstream infections**
L. Jordao (Lisbon, Portugal), M. Pinto, V. Borges, M. Nascimento, F. Martins, M.A. Pessanha, I. Faria, J. Rodrigues, R. Matias, J.P. Gomes*

PS055

8b. Other foreign-body and implant infections

P1657 **Intrathecal antibiotical therapy for CNS, real practice, far from the guidelines**
L. Guillem (L'Hospitalet De Llobregat, Spain), A. Padulles, D. Berbel, R. Rigo, C. Cabellos*

P1658 **Clinico-microbiological profile of cerebrospinal fluid (CSF) diversion catheter-related infections from a tertiary referral neurosurgical care centre in southern India**
D.R. Korol Ponnambath (Thiruvananthapuram, India), D.R. Diwakar, M.S. Biju, K. Raja, M. Abraham*

P1659 **Reduced failure when using rifampicin in chronic staphylococcal periprosthetic joint infections treated with two-stage exchange arthroplasty: a multi-centre observational study**
T.S. Kramer (Berlin, Germany), A. Soriano, S. Tedeschi, A. Chen, P. Tattevin, E. Senneville, J. Gómez-Junyent, V. Birlutiu, S. Petersdorf, V. Diaz Brito, I. Sancho Gonzalez, L. Morata, K. Belden, M. Wouthuyzen-Bakker*

P1660 **Outcome of haematogenous vs. non-haematogenous periprosthetic joint infection in a retrospective cohort of 305 episodes**
N. Renz (Bern, Switzerland), L. Knoll, S.D. Steppacher, K. Siebenrock, H. Furrer, M.C. Thurnheer-Zürcher*

P1661 **Biofilm-forming capability and antibiotic susceptibility of isolates from occluded biliary stents**
S. Kansal (Chandigarh, India), U. Dutta, A. Angrup, S.M. Rudramurthy, P. Ray*

P1662 **Role of D-dimer and fibrinogen to identify patients with prosthetic joint infection**
T. Ascione (Naples, Italy), G. Balato, M. Mariconda, N. Logoluso, E. De Vecchi, A. Pellegrini, P. Pagliano*

P1663 **Impact of pre-operative radiological myopenia and malnutrition on abdominal aortic (endo)graft infections mortality**
M. Schnebelen (Bordeaux, France), M. Puges, A. Lafargue, C. Fournier, X. Xavier, C. Cazanave, C. Caradu, I. Bourdel-Marchasson, L. Petit*

P1664 **Cardiac implantable electronic device infections: impact of antimicrobial treatment timing on microbiological yield and outcome**
M. Ranzenigo (Milan, Italy), G. Ponta, A. Marzi, C. Oltolini, C. Tassan Din, C. Uberti-Foppa, V. Spagnuolo, P. Mazzone, P. Della Bella, P. Scarpellini, A. Castagna, M. Ripa*

P1665 **Rate and predictors of treatment failure in *Staphylococcus aureus* prosthetic joint infection: a retrospective multi-national cohort study**
R. Espindola (Seville, Spain), V. Vella, N. Benito, I. Mur, S. Tedeschi, N. Rossi, J.G.E. Hendriks, L. Sorlí, O. Murillo, L. Soldevila, M. Scarborough, C. Scarborough, J. Kluytmans, M.C. Ferrari, M.W. Pletz, I. Mcnamara, R. Escudero-Sanchez, C. Arvieux, C. Batailler, F.A. Dauchy, W.Y. Liu, J. Lora-Tamayo, J. Praena, A. Ustianowski, E. Cinconze, M. Pellegrini, F. Bagnoli, J. Rodriguez-Baño, M.D. Del Toro*

P1666 **Clindamycin-based combination therapy for staphylococcal prosthetic joint infection: a multi-centre observational study**
M. Le Goff (Brest, France), L. Quaesaet, D. Tande, C. Deschanvres, P. Bemer, C. Bourigault, P. Abgueguen, C. Arvieux, S. Jamard, G. Le Moal, S. Ansart*

P1667 **Trends of positivity of sonication fluid cultures from cases of acute and chronic periprosthetic joint infections**
R.M. Birlutiu (Sibiu, Romania)*

P1668 **Biodegradable bilayer sol-gel coating can prevent prosthetic joint infections while promoting bone mineralisation**
B. Toirac (Madrid, Spain), J.J. Aguilera-Correa, A. Mediero, J. Esteban, A. Jimenez-Morales*

P1669 **Characteristics and treatment outcome of polymicrobial prosthetic joint infections**
D. Margaryan (Berlin, Germany), D.S. Virginia, K. Svetlana, T. Andrej*

P1670 **Rapid identification of *Staphylococcus aureus* carriers before hip hemiarthroplasty for femur fracture: does it help prevent prosthetic joint infections?**
N. Benito (Barcelona, Spain), N. Roch, J. De Caso, A. Rivera, M. Puig, V. Pomar, E. Gómez, R. Altaba, A. Cozar, T. Nolla, D. Miniac, E. Fernández, M. Jordán, A.P. Cortés, M. Píriz, X. Crusi, J. López-Contreras*

P1671 **Conservative management of aortic vascular graft and endograft infections**
M. Puges (Bordeaux, France), C. Bicknell, G. Martin, X. Bérard, E. Ducasse, C. Cazanave, C. Caradu*

P1672 **Visualisation of biofilm organisation on explanted infected vascular grafts through scanning electron microscopy**
M. Puges (Bordeaux, France), F. M'zali, I. Svahn, E. Gontier, X. Bérard, C. Charles*

P1673 **Prophylactic antibiotics longer than 48 hours in orthopaedic fractures did not reduce the rate of fracture-related infection**
M.J. Salles (São Paulo, Brazil), S.B. Prebianchi, E.C. Santos, F.B. Reis, A. Dell'aquila, C.A. Finelli, I.N.M. Santos, M.N.L. Kurihara*

P1674 **Two-year outcome in 430 periprosthetic joint infections: impact of the surgeon expertise**
J. Tschopp (Lausanne, Switzerland), A. Fischbacher, S. Steinmetz, N. Boillat Blanco, O. Borens*

P1675 **Risk factors for biliary stent infections in unresectable malignant biliary obstruction**
S. Petit (La Rochelle, France), M. Puyade, M. Pichon, S. Velasco, F. Roblot, N. Isambert, C. Evrard, B. Rammaert*

PS056

8c. Surgical site infections

P1676 **A retrospective monocentric study on dalbavancin effectiveness in sternal wound infection treatment: DALBA S.W.I.T. study**
A. Maccaro (Bologna, Italy), E. Mikus, R. Pascale, F. Esposito, M. Rinaldi, P. Viale, M. Bartoletti*

P1677 **Antimicrobial drape for prevention of postoperative infection: a one-year follow-up study of 1187 knee arthroplasty patients**
A.B. Hesselvig (Copenhagen, Denmark), M. Arpi, F. Madsen, T. Bjarnsholt, A. Odgaard*

P1678 **Clippers and glucose control to reduce surgical site infections (SSI) in coronary artery bypass graft (CABG) surgeries: experience from a India (LMIC)**
A. Rohit (Chennai, India), S.K. Durairajan, B. Catherine, J. Joy, D.T. Nissi, A. Jenifer, R. Anderson, M.K. Shah*

P1679 **The impact of the COVID-19 pandemic on the incidence of surgical site infections in Dutch hospitals: preliminary results based on surveillance data**
N. Reimes (Bilthoven, Netherlands), T.I.I. Van Der Kooi, J.D.M. Verberk, S.C. De Greeff, S.M. Van Rooden*

P1680 **The impact of antibiotic prophylaxis change in cardiac surgery: 12 years of experience from a centre specialised in cardiovascular surgery, São Paulo, Brazil**
C. Abboud (São Paulo, Brazil), A. Ibanes, D. Feriani, E. Vasconcelos, V. Barbosa*

P1681 **An assessment of the appropriateness of surgical antibiotic prophylaxis in total hip and total knee replacement surgery in an Irish hospital**
T.M. Barbosa (Cork, Ireland), S. Mccarthy, M. Kennedy, L. Walshe*

P1682 **Bacterial sensitivity to chlorhexidine and povidone-iodine antiseptics over time: a systematic review and meta-analysis of human-derived data**
V.H. Dodhia (Winchester, United Kingdom), R. Aftab, C. Jeanes, R.G. Wade*

P1683 ***Staphylococcus aureus* from prosthetic joint infections and blood cultures**
B. Stenmark (Örebro, Sweden), B. Söderquist, P. Wildeman*

P1684 **Risk factors to external ventricular drain infection: results from a 5-year retrospective Brazilian cohort**
J.P. Telles (Sao Paulo, Brazil), M. Anderson, J.G. Doubek, J. Goginski, J. Santana, T. Modesto, F. Araujo Jr, V.S. Ribeiro, F.F. Tuon*

P1685 **Cefotaxime resistance in bile samples is an independent predictor of deep infectious complications after pancreaticoduodenectomy**
P. Tattevin (Rennes, France), F. Robin, D. Bergeat, M. Livin, B. Maillot, H. Triki, L. Corbière, E. Gaignard, M. Cailleaux, V. Cattoir, K. Boudjema, L. Sulpice*

P1686 **sCD14-ST (presepsin) as a risk factor for the development of post-operative infection complications in colorectal cancer patients**
A. Ogizbayeva (Karagandy, Kazakhstan), Y. Turgunov, O. Avdiyenko, K. Shakeyev, M. Mugazov*

P1687 **Infectious disease advice reduces mortality in post-sternotomy mediastinitis**
D. Fernández De Velasco (Madrid, Spain), C. Villamor, M. Carnero, D. Pérez, M. Giraldo, B. Torres, L. Montero, F. Reguillo, E. Villagrán, A. Álvarez De Arcaya*

P1688 **Surgical site intervention: added value to the Swiss National SSI surveillance system**
R. Sommerstein (Bern, Switzerland), A. Szelecsenyi, A. Schweiger, M. Eder, D. Vuichard-Gysin, A. Atkinson, S. Kuster, N. Troillet, A. Widmer*

PS057

8d. Healthcare-associated pneumonia (incl VAP)

P1689 **Ventilator-associated pneumonia and antibiotic stewardship in cardiac surgical patients in tertiary care hospital**
A. Rohit (Chennai, India)*

P1690 **The composition of the oropharyngeal microbiota is a driver of early-onset ventilator-associated pneumonia in critically ill patients with COVID-19**
P. Szychowiak (Paris, France), R. Gschwind, K. Villageois-Tran, S. Ruckly, P.H. Wicky, S. Gueye, L. Armand, M. Marzouk, E. De Montmollin, F. Lamara, J. Patrier, J.F. Timsit, E. Ruppé*

P1691 **Incidence and microbiological characteristics of ventilator-associated pneumonia assessed by bronchoalveolar lavage and endotracheal aspirate in COVID-19 patients: CoV-AP study**
D. Mangioni (Milan, Italy), M. Panigada, L. Alagna, A. Guzzardella, J. Fumagalli, A. Lombardi, A. Meli, A. Muscatello, E. Trombetta, L. Porretti, C. Matinato, L. Valenti, F. Ceriotti, A. Pesenti, A. Gori, G. Grasselli, A. Bandera*

P1692 **Clinical and epidemiological context of *Acinetobacter baumannii* co-infection in patients with a diagnosis of COVID-19**
P. Garciadiego (Mexico City, Mexico), S. Menchaca, C.D. Mireles, E. Becerril, J.U. Ramos, J.E. Cercas, J. Silva*

P1693 **Is the aetiology of nosocomial pneumonia different in ventilated and non-ventilated patients? A comparison in bacteremic episodes**
A. Galar (Madrid, Spain), E. Bouza, H. Guillén, A. Rojas, G. Cañada, E. Cercenado, C. Sánchez-Carrillo, P. Martín-Rabadán, P. Muñoz*

P1694 **Epidemiology of ventilator-associated pneumonia among adult ICU patients and ACM rates: a national, multi-centre, retrospective study (eVAP-PT Study)**
J.G. Pereira (Vila Franca De Xira, Portugal), F. Froes, P. Mergulhão, A. Vale Fernandes, A. Krystopchuk, J. Ribeiro, D. Miranda, H. Castro, C. Eira, J. Morais, C. Lameirão, S. Gomes, D. Leal, L. Pássaro*

P1695 **Effect of probiotics on stool microbiome characteristics and clinical outcome of ventilated patients at risk of ventilator-associated pneumonia in a resource-constrained setting**
A. Ray (New Delhi, India), S.K. Kanukuntla, D. Bhabatosh, W. Naveet*

P1696 **Ventilator-associated respiratory infection by *Elizabethkingia miricola* in ICU patients**
M. Illescas-López (Granada, Spain), L. Rojas-García, E. Serrano-Conde, C. Gómez-Camarasa, L. Chaves-Blanco, N. Chueca-Porcuna*

P1697 **Prone position and ventilator-associated pneumonia: risk or benefit?**
V. Paz (Caba, Argentina), A. Santillán, M.L. D' Agostino, F. Garibaldi, R. Orellana, M. Paniagua*

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8e. Hospital epidemiology, transmission, surveillance & screening (incl. environment)

P1698 **Epidemiological investigations for evaluating CRE acquisition pathways in an Israeli tertiary hospital**
N. Hassoun-Kheir (Haifa, Israel), M. Paul, W. Aboelhega, S. Warman, T. Alon, O. Eluk, M. Karram, S. Badaan, M. Saffuri, S. Peleg, K. Hussien*

P1699 **Faucet aerators as a potential source of polymicrobial outbreak in neonatal intensive care unit**
M.A. Alshamrani (Riyadh, Saudi Arabia), A.D. Abagguey, F.B. Noelle, B.A. Abukhzam, K.A. Alameer, M.A. Al Zunitan, N.A. Alshami, M.C. Castro, A.E. El-Saed, S. Al Saif*

P1700 **Prevalence of healthcare-associated infections and antibiotic use in neonatal hospital settings globally: a point prevalence survey of 16 neonatal units in 10 countries in the NeoOBS study network**
N. Russell (London, United Kingdom),*

P1701 **Microbial control of dental unit water and alert management**
P. Vanhems (Lyon, France), E. Marion, A. Regard, C. Barthelemy, J.J. Morrier, J.C. Farges*

P1702 **Evolution of nosocomial infection prevalence in a tertiary care hospital Bilbao, Spain (2010 to 2019)**
R.E. Figueroa Ceron (Bilbao, Spain), J. Taboada Gomez, A. Burzaco Sanchez, O.L. Ferrero Benitez, I. Maradiaga Ordeñana*

P1703 **Outbreak of vancomycin-resistant *Enterococcus faecium* in a tertiary care centre in Catalonia, Spain**
I. Casas (Badalona, Spain), B. Blanco, N. Sopena, M. Gimenez, L. Castella, D. Reina, M.J. Garcia-Quesada, R. Lopez, S. Galvez, R. Diaz, J.H. Wang, V. Saludes, F. Quilez*

P1704 **Burden of healthcare-associated infections in a Tunisian university hospital in 2019**
A. Maatouk (Sousse, Tunisia), O. Ezzi, A. Ammar, Y. Ayedi, S. Chelly, M. Njah, M. Mahjoub*

P1705 **Local point prevalence survey (PPS) captures hidden outbreaks of carbapenemase-producing Enterobacterales (CPE)**
M. Getino (London, United Kingdom), H. Abbas, F. Bolt, J.A. Otter, S. Mookerjee, T.J. Galletly, Y. Shersing, K. Malpartida-Cardenas, L. Miglietta, A. Myall, A.Y. Weiße, K.L. Hopkins, M.J. Ellington, J. Rodriguez-Manzano, J.R. Price, A.H. Holmes, E. Jauneikaite, F. Davies*

P1706 **Microbial epidemiology and antimicrobial resistance patterns in trauma patients with wound infections at a tertiary hospital in Kampala, Uganda**
L. Jung (Leipzig, Germany), J. Kiwanuka, S. Nsibirwa, H. Kajumbula, E. Mwaka, A. Von Braun*

P1707 **Next-generation sequencing for IPC 3.0: endemicity or transmission of *Enterobacter cloacae* complex in a neonatal intensive care ward**
M. Van Den Nest (Vienna, Austria), J. Ebner, J. Zottl, L. Bouvier-Azula, A. Füszl, M. Diab-El Schahawi, E. Presterl*

P1708 **Integrated stewardship with rapid urine cultures and multidisciplinary team (MDT) for antimicrobial stewardship (AMS): single ICU experience from India**
A. Rohit (Chennai, India), S. Ganeshbabu, J. Joy, D. Nissi, B. Catherine, D. I*

P1709 ***Pseudomonas aeruginosa* molecular typing: introduction of novel HRM-based approach**
K. Dufkova (Brno, Czech Republic), M. Bezdicek, M. Nykrynova, P. Kubackova, I. Kocmanova, I. Vitkova, L. Zdrazilova Dubska, M. Lengerova*

P1710 **Next-generation sequencing reveals a high proportion of ST101 in OXA-48 producing *Klebsiella pneumoniae* isolates recovered from screening cultures at Vienna General Hospital**
J. Ebner (Vienna, Austria), M. Van Den Nest, J. Zottl, L. Bouvier-Azula, A. Füszl, M. Diab-El Schahawi, E. Presterl*

P1711 **Searching for carbapenemase-producing Enterobacterales in the hospital environment: what is the best method?**
A. Kearney (Dublin, Ireland), H. Humphreys, D. Fitzgerald Hughes*

P1712 **Longitudinal analysis of carbapenemase-producing Enterobacterales dynamics in a tertiary care hospital since first description (2015-2020)**
A.C. Mendes (Porto, Portugal), M.H. Ramos, Â. Novais, L. Peixe*

P1713 **Abundance of antibiotic resistance genes in and around hospital waste grinders: awareness and risk assessment needed**
C. Haanappel (Rotterdam, Netherlands), P. Vellekoop, W. Zandijk, W. Van Vianen, C. Klaassen, J. Severin*

P1714 **Carbapenemase-producing *Enterobacteriaceae* in an inpatient post-acute care facility: the impact on time to functional recovery**
N. Henoun Loukili (Lille, France), J.F. Jusot, E. Allaert, A. Perrin, O. Gaillot, V. Pardessus, A. Blanchard, A. Thevenon, V. Tiffreau*

P1715 **Concordance between a commercial liquid-culture assay and ISO 11731:2017 plate-culture method, for the detection and quantification of *Legionella pneumophila* in water samples**
K. Karia (London, United Kingdom), S. Yui, M. Muzslay, S. Ali*

P1716 **Whole genome sequencing for the phylogenetic study of *Pseudomonas aeruginosa* ST175 HRC isolated at an ICU**
M.E. Portillo (Pamplona, Spain), M. Fernandez-Huerta, A. Miqueleiz, I. Arregui, A. Gil-Setas, C. Ezpeleta*

P1717 **A prolonged nosocomial outbreak of ESBL *Klebsiella pneumoniae* in a neonatal intensive care unit identified by whole genome sequencing**
S. Boyer (Rouen, France), F. Gravey, P. Dequiré, L. Lemée, S. Dahyot, C. Chefson, A. Cottalorda, M. Pestel-Caron, S. Le Hello*

P1718 **Carbapenemase producing Enterobacterales (CPE) in hospital wastewater (WW) – a one-year study of CPE occurrence in WW, their species and involved genes**
D.S. Hansen (Herlev, Denmark), H.W. Hallberg, L. Nielsen, C. Jørgensen*

P1719 **A machine learning-based model to predict bloodstream infections as an antibiotic stewardship tool**
R. Murri (Rome, Italy), C. Masciocchi, G. De Angelis, L. Antenucci, R. Rinaldi, A. Damiani, S. Patarnello, F.V. Segala, F. Giovannenze, B. Fiori, V. Valentini, M. Fantoni, M. Sanguinetti*

P1720 **Impact of COVID-19 pandemic in extended-spectrum beta-lactamases *Enterobacteriaceae* circulation in three intensive care units of a 1600-bed university hospital, France**
F. Gravey (Caen, France), M. Fines-Guyon, C. Jeanne-Leroyer, C. Isnard, P. Dequire, B. Langlois, F. Ethuin, D. Du Cheyron, O. Join-Lambert, M. Auzou, S. Le Hello*

P1721 **A genome-based study of carbapenemase-producing Enterobacterales at three German hospitals in 2020 reveals unique profiles of species diversity and carbapenemase genes**
L. Falgenhauer (Giessen, Germany), B. Bettinger, T. Chakraborty, V.A.J. Kempf, M. Hogardt, S. Göttig, M. Lohoff, C. Imirzalioglu*

P1722 **Whole genome sequencing (WGS) analysis on patient *Pseudomonas aeruginosa* (PA) bacteraemia isolates and environmental PA strains isolated from hospital water**
Özge Yetiş (London, United Kingdom), Ö. Yetis, L. Van Dorp, S. Ali, P. Wilson*

P1723 **Prevalence and clinical outcome of rectal and pharyngeal colonisation by multidrug-resistant organisms (MDROs): a retrospective study from a 300-bed hospital in Italy**
A.D. D'Avino (Rome, Italy), E.P. Paciacconi, S.M. Mazzocchetti, D.M. Menghetti, M.C. Theriault, A.S. Schiattarella*

P1724 **Colonisation with carbapenemase-producing Gram-negative bacteria in burn patients**
M. Romdhani (Ben Arous, Tunisia), H. Naija, S. Dhraief, A. Messadi, L. Thabet*

P1725 **An update of using environmental testing as part of an infection control quality improvement project in a Ugandan neonatal intensive care unit**
L. Hookham (Kampala, Uganda), A. Wamawobe, M. Kassaga, L. Nabirye, K. Le Doare*

P1726 **The impact of pandemic control measures in the incidence of MDR Gram-negative bacteria isolates among hospitalised patients in a major tertiary hospital centre**
T. Moreira Marques (Lisbon, Portugal), A. Almeida, M. Pinto, L. Cruz, S. Picão, R. Soares, P. Fiúza, A. Conchinha, J. Sousa*

P1727 **Prevalence of *Staphylococcus aureus* CC398 is not related to hospitalised patients**
A. Zeggay (Besançon, France), H. Gbaguidi-Haore, A. Atchon, B. Valot, C. Chirouze, D. Hoquet, X. Bertrand, K. Bouiller*

P1728 **Description and molecular characterisation of an outbreak of New Delhi metallo-beta-lactamase-producing *Klebsiella pneumoniae* in COVID-19 units in Milan**
A. Cona (Milan, Italy), S. Pettenuzzo, A. Lai, O. Viganò, L. Gazzola, F. Bai, A. Copes, B. Varisco, S. Perin, A. De Bona, T. Bini, G. Zehender, L. Boselli, A. Za, D. Carnevale, G.C. Marchetti, N.V. Orfeo, A. D'arminio Monforte*

P1729 **Collateral damage in infection control: a characterisation of multidrug resistant *E.coli* in a German university hospital during the COVID-19 pandemic**
V.F. Van Almsick (Münster, Germany), V. Schwierzeck, N.J. Fröböse, S. Kampmeier, A. Mellmann*

P1730 **The spread of carbapenemase-producing Enterobacterales (CPE) during the global COVID-19 pandemic in a northern Italy hospital**
G. Tocci (Piacenza, Italy), D. Caleca, P. Gigante, V. Lepera, C. Gorrini, I. Peroni, A. Zappavigna, C. Cordini, L. La Vergata, R. Schiavo, G. Lo Cascio*

P1731 **Growth and survival of spore forming *Bacillus cereus* in human milk exposed to different conditions, processing, and storage**
A. Nussbaumer-Pröll (Vienna, Austria), S. Eberl, M. Gsöllpointner, N. Haiden, M. Zeitlinger*

P1732 **Shannon index from rectal microbiome as a risk factor of mortality and infection in MDRO colonised patients from ICU in Colombia**
J.V. Martinez Janne (Bogotá, Colombia), F.O. Guevara Pulido, J.R. Reyes, L.D. Diaz, R.R. Rios, S.R. Rincon, B.C. Castro, C.A. Arias*

P1733 **The impact of COVID-19 on healthcare associated infections: data-analysis of São Paulo city surveillance system**
M.P. Freire (São Paulo, Brazil), M. Oliveira, B.M. Tavares, G. Madalosso, I.M. Marinho, D.B. Assis, A.C.P. De Lima, A.S.S. Levin*

P1734 **Detection of *Mycobacterium chimaera* in water samples from heater cooler units by customised real-time PCR on a commercial platform**
F. Bisognin (Bologna, Italy), G. Lombardi, I. Banchini, S. Cristino, P. Dal Monte*

P1735 **Persistence of multiple-drug resistant Gram-negative bacilli (MDR-GNB) in hospitalised patients based on rectal carriage**
B. Torralbo (Barcelona, Spain), S. Herrera, F.J. Bernal, A. Del Rio, E. Rubio, C. Pitart, I. Fortes, S. Valls, L. Rodriguez, G. Santana, V. Rico, C. Cardozo, L. Leal, N. Garcia, M. Bodro, G. Carolina, H. Marta, P. Pedro, M. Laura, A. Vilella, A. Soriano, J.A. Martinez*

P1736 **Prolonged hospitalisation in the emergency department leads to a high prevalence of carbapenem-resistant Enterobacteriaceae colonisation**
M.C. Salomao (São Paulo, Brazil), M.P. Freire, L. Bubach Carvalho, B.L. Almeida, R.B. Tolentino, A.P. Cury, F. Rossi, C.S. Lázari, R.V. Pereira, A.J.D.S. Duarte, A.A.C. Segurado, S.F. Costa, A.S. Levin, I. Boszczowski*

P1737 **Monitoring and control of HAIs: validation of an IT platform on the data of a tertiary centre in northern Italy**
M. Colaneri (Pavia, Italy), D. Di Carlo, V. Zuccaro, M. Corbella, G. Petazzoni, A. Muzzi, B. Mariani, P. Cambieri, S. Gaiarsa, F. Comandatore, A. Piazza, C. Bandi, R. Bruno*

P1738 **Longevity of *Candida auris* on common medical supply surfaces under various environmental conditions**
H. Khodadadi (Shiraz, Iran, Islamic Republic of), M. Taghizadeh, K. Zomorodian, R. Nasr, S. Hosseinpour*

P1739 **A geographic cluster of carbapenemase-producing hypervirulent *Klebsiella pneumoniae* sequence type 23 in Ireland**
C. Brennan (Waterford, Ireland), N. Delappe, M. Cormican, A. Tobin, L. Moran, M. Doyle, C. Fielding*

P1740 **Factors associated with duration of carriage of multipledrug resistant Gram-negative bacilli (MDR-GNB).**
M. Jose Antonio (Barcelona, Spain), S. Herrera, T. Blanca, F.J. Bernal, A. Del Rio, E. Rubio, C. Pitart, I. Fortes, S. Valls, L. Rodriguez, G. Santana, V. Rico, C. Cardozo, L. Leal, N. Garcia, M. Bodro, G. Carolina, H. Marta, P. Pedro, M. Laura, A. Vilella, S. Alex*

P1741 **Spreading resistance: the resistome of presumptive *Enterobacteriaceae* isolated from long-term care units patients and environment**
C. Santos-Marques (Porto, Portugal), J. Dantas Palmeira, F. Amorim, S. Gonçalves Pereira, H. Ferreira*

P1742 **Management of VIM-producing *Pseudomonas* at a large academic health-system in Miami, Florida: molecular epidemiology, infection prevention, and antimicrobial stewardship**
K.J. Deronde (Miami, United States), A.D. Vega, A. Jimenez, M. Piazza, S. Marshall, M. Yasmin, R.A. Bonomo, L.M. Abbo*

P1743 **Regional variability in transmission-based precautions for carbapenemase-producing *Pseudomonas aeruginosa* (CPPA): a cross-sectional survey**
A. Van Veen (Rotterdam, Netherlands), I. De Goeij, M. Damen, E, Huijskens, S. Paltansing, M. Van Rijn, R. Bentvelsen, B. Wintermans, E. Kraan, M. Vos, J. Severin*

P1744 **Predicting hospital-onset COVID-19 infections using dynamic networks of patient contacts: an observational study**
A. Myall (London, United Kingdom), J. Price, R. Peach, M. Abbas, S. Mookerjee, N. Zhu, I. Ahmed, D. Ming, F. Ramzan, D. Teixeira, C. Graf, A. Weiße, S. Harbarth, A. Holmes, M. Barahona*

P1745 **Regional variability in the interpretation of contact precautions for vancomycin-resistant *Enterococcus faecium* (VRE): a cross-sectional survey**
A. Van Veen (Rotterdam, Netherlands), I. De Goeij, M. Damen, E. Huijskens, S. Paltansing, M. Van Rijn, R. Bentvelsen, B. Wintermans, E. Kraan, M. Vos, J. Severin*

P1746 **Genomic adaptation of *Pseudomonas aeruginosa* ST299 to copper water network in intensive care unit**
S. Romano-Bertrand (Montpellier, France), M. Virieux-Petit, F. Hammer-Dedet, E. Jumas-Bilak, F. Aujoulat*

P1747 **Rectal colonisation and nosocomial transmission of carbapenem-resistant *Acinetobacter baumannii* in an intensive care unit, southwest Nigeria**
E.E. Odih (Ibadan, Nigeria), E. Irek, T. Obadare, A.O. Oaikhena, A.O. Afolayan, A. Underwood, V.O. Ogunleye, S. Argimon, A. Dalsgaard, D.M. Aanensen, I.N. Okeke, A.O. Aboderin*

P1748 **Testing innovative technologies for monitoring multidrug-resistant pathogens in clinical settings: challenges and opportunities of the ANTI-SUPERBUG pre-commercial procurement**
F. Tessarolo (Trento, Italy), E. Torri, S. Rizzardo, J. Trenado Alvarez, L. Buguñá Hoffmann, E. Calbo Sebastian, S. Schmiedl, P. Ahmad-Nejad, B. Ghebremedhin, I. Arrizabalaga Garde, M. Sanchis Amat*

P1749 **Presence, distribution, resistome and virulome of methicillin-resistant *Staphylococcus aureus* (MRSA) in a tertiary hospital in Spain, 2015-2020**
I. Fernández-Natal (León, Spain), M. Hernandez, L. Casado, M. Arias, T. Marrodán, D. Abad, H. Rodríguez-Pollán, D. Rodriguez-Lazaro*

P1750 **Whole genome sequencing to elucidate a *Serratia marcescens* outbreak in a neonatal intensive care unit**
S. Mernelius (Jönköping, Sweden), L. Berglind*

P1751 **Effect of COVID-19 on the incidence of hospital- and central line-associated bloodstream infections**
E. Duysburgh (Brussels, Belgium), S. Dequeker, B. Catry, L. Mortgat*

P1752 **Could biofilm formation, desiccation resistance and/or disinfectant tolerance explain the environmental persistence of *Staphylococcus capitis* in neonatal intensive care units?**
M. Chavignon (Lyon, France), L. Coignet, M. Bergot, A. Tristan, F. Laurent, M. Butin*

P1753 **Are hospital environments an underestimated source for Gram-negative infections in critically ill patients?**
S. Ali (Dublin, Ireland), L. Koolman, G. Macori, N. Mullane, B. Jayaseelan, O. Donoghue, S. Fanning, K. Schaffer*

P1754 **Environmental screening for CPE: what do you find?**
S. Hansen (Odense, Denmark), T. Danielsen, Z. Acar, T. Ladegaard, U. Justesen*

P1755 **Burden of healthcare-associated infections in Ukraine: pilot point prevalence survey**
A. Vodianyk (Kyiv, Ukraine), R. Kolesnyk, A.P. Coutinho Rehse, R. Vatcheva-Dobrevska*

P1756 **Investigating the appropriate outcome for quantifying antimicrobial use in the intensive care units: an Indian retrospective study in private tertiary care hospital**
P.R. Deshwal (Mohali, India), P. Tiwari*

P1757 **Genomic perspective of ST15 *Klebsiella pneumoniae* in neonatal sepsis in Islamabad, Pakistan**
A.D. Ferreira (Cardiff, United Kingdom), K. Sands, M.J. Carvalho, E. Portal, K. Thomson, J. Mathias, S. Gul, L. Jones, R. Zahra, T.R. Walsh*

P1758 **Cardiothoracic unit *Bacillus licheniformis* outbreak investigation by nanopore sequencing**
K.K.K. Ko (Singapore, Singapore), C. Suphavilai, K.M. Lim, J.J.K. Chu, S.S. Goh, N. Abdul Rahman, D.C.M. Lai, I.L.E. Wee, H.Y. Cheong, D.C.H. Teo, J.H.C. Sim, M.L. Ling, K.R. Chng, N. Nagarajan*

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8f. Other healthcare associated infections (incl CDI)

P1759 **Diagnostic accuracy of clinical and laboratory characteristics in suspected nonsurgical nosocomial central nervous system infections**
I.E. Van Zeggeren (Amsterdam, Netherlands), C.J. Pennartz, L. Ter Horst, D. Van De Beek, M.C. Brouwer*

P1760 **Factors associated with acquisition of toxigenic *Clostridioides difficile* during hospital stay: prospective cohort study in a French university hospital**
N. Khanafer (Lyon, France), S. Bennia, G. Martin Gaujard, L. Juillard, T. Rimmelé, L. Argaud, P. Cassier, O. Martin, G. Study, P. Vanhems*

P1761 **An outbreak of *Serratia marcescens* bloodstream infections in a paediatrics department of a Tunisian university hospital**
A. Maatouk (Sousse, Tunisia), A. Ammar, O. Ezzi, R. Helali, N. Mansour, M. Mahjoub, H. Boudriga, R. Kbaili, L. Boughammoura*

P1762 **Calprotectin levels as predictor of recurrent *Clostridioides difficile***
S. Vázquez-Cuesta (Madrid, Spain), L. Alcalá, M. Marín, P. Muñoz, E. Bouza, E. Reigadas*

P1763 **Effect of COVID-19 pandemic on *C. difficile* infections: results from a tertiary care centre**
M. Van Den Nest (Vienna, Austria), J. Ebner, S. Neschkova, L. Bouvier-Azula, A. Füszl, C. Gabler, E. Presterl*

P1764 **Scoring model for stratification between spontaneous bacterial peritonitis and secondary peritonitis in liver cirrhosis**
S. Würstle (Munich, Germany), A. Hapfelmeier, S. Karapetyan, A. Isaakidou, T. Schneider, F. Studen, R.M. Schmid, S. Von Delius, F. Gundling, R. Burgkart, A. Obermeier, U. Mayr, F. Geisler, C.D. Spinner, J. Schneider*

P1765 **Predictors of bloodstream infections caused by multidrug-resistant organisms among chronic ambulatory haemodialysis patients**
S. Zilberman-Itskovich (Be'er Ya'akov, Israel), Y. Elukbi, R. Weinberg Sibony, D. Zelnik Yovel, A. Strulovici, A. Khatib, S. Efrati, D. Marchaim*

P1766 **Prevalence of nursing and healthcare-associated infections and antimicrobial use in long-term care facilities in Japan: a point prevalence survey**
K. Suzuki (Tokyo, Japan), S. Morioka, N. Matsunaga, K. Hayakawa, N. Ohmagari*

P1767 **Costs attributable of *Clostridioides difficile* infection (CDI) based on the setting of onset and need for hospitalisation**
E. Dubberke (St. Louis, United States), J. Sahrmann, M. Olsen, H. Yu*

P1768 **Prevalence and risk factors of toxigenic *Clostridioides difficile* asymptomatic carriage in eleven French hospitals**
S. Jolivet (Paris, France), J. Couturier, P. Grohs, A. Vilfaillot, J.R. Zahar, P. Frange, A. Casetta, V. Moulin, C. Lawrence, P. Baune, C. Bourgeois, A. Bouffier, C. Laussucq, L. Sienzonit, S. Picard, I. Podglajen, N. Kassis-Chikhani, F. Barbut*

P1769 **The emergence of linezolid resistant strains of *Clostridioides difficile* ribotype 001 in acute care in the Czech Republic, 2019**
M. Brajerova, (Prague, Czech Republic), P. Kinross, E. Nycova, I. Vitkova, M. Balejova, L. Geigerova, N. Bartonikova, R. Tejkalova, L. Havlinova, I. Vagnerova, Z. Kadleckova, L. Ryskova, P. Jezek, D. Zamazalova, D. Vesela, A. Kucharova, M. Skruzna, M. Curdova, A. Melichar, E. Simeckova, E. Czyzova, E. Miskova, T. Prokopova, J. Matejkova, P. Drevinek, M. Krutova*

P1770 **Protection against H9N2 influenza A virus induced by recombinant M2e-HA2 protein**
M. Zeinolabedin (Tabriz, Iran, Islamic Republic of), M. Moghadaszadeh Ahrabi, P. Zeynolabediny*

P1771 **Epidemiological features of *Clostridioides difficile* infection in a tertiary university hospital, 2014-2020**
E. Kalogeropoulou (Athens, Greece), S. Damianidou, M. Kostoula, P. Karakosta, A. Vasilakopoulou, E. Oikonomoula, K. Tsekouras, O. Rodarou, J. Meletiadis, S. Pournaras*

P1772 **Six years of survey of bacteriuria ecology in nursing home of canton de Vaud**
M.I. Nahimana Tessemo (Lausanne, Switzerland), B. Van Der Kaa, C. Petignat*

P1773 **Empiric usage of anti-pseudomonal agents in hospital-acquired urinary tract infections**
D. Marchaim (Be'er Ya'akov, Israel), O. Rahat, S. Zilberman, R. Finkenberg*

P1774 **Frequency of stool diagnostics and potential underdiagnosis of *Clostridioides difficile* in hospitalised adults with diarrhoea in the Münster/Coesfeld area, Germany**
N. Effelsberg (Münster, Germany), M. Buchholz, S. Kampmeier, V. Schwierzeck, F.J. Angulo, G. Brestrich, C. Martin, J. Moïsi, C. Von Eiff, L. Von Müller, A. Mellmann*

P1775 **High population-based incidence of hospitalised *Clostridioides difficile* (*C. difficile*) infection (CDI) among older adults in Ota-ku district of Tokyo, Japan**
F. Angulo (Portland, United States), K. Tateda, J. Ishida, S. Ito, E. Gonzalez, S. Yoshizumi, P. Zhang, M. Pride, S. Gray, C. Matos Ferreira, J. Moisi, N. Minarovic, L. Jodar*

P1776 **Faecal microbiota characteristics in patients with *Clostridioides difficile* colitis**
M.P. Ventero (Alicante, Spain), R. Herrero, C. Molina-Pardines, M.D. Valverde-Fredet, L. Giner, M. Garcia, P. González De La Aleja, F. Jover, A.I. Aller, C. Giler, C. Gil, J.C. Rodriguez, E. Merino, N. Merchante*

PS060

8g. Infection control interventions and trials (incl. microbiota transplantation)

P1777 **Control of an outbreak with a tobramycin-resistant, methicillin-susceptible *Staphylococcus aureus* (TR-MSSA) strain in an intensive care COVID-19 cohort**
K.K. Jim (Amsterdam, Netherlands), V. Janes, L. Stolwijk, S. Matamoros, L. Heunks, R. Van Mansfeld*

P1778 **Establishment of a stool bank: from donor recruitment to screening**
A. Aira (Barcelona, Spain), A. Villasante, M. Escapa, A. Sayol-Altarriba, E. Rubio, A. Vergara, M. Claparols, B. González-Suárez, A. Soriano, C. Casals-Pascual*

P1779 **Efficacy of interventions to reduce nosocomial transmission of SARS-CoV-2 in England: a data-driven modelling study**
S. Evans (London, United Kingdom), J. Stimson, D. Pople, P. White, R. Hope, M. Wilcox, J. Robotham*

P1780 **Faecal microbiota transplantation via lyophilised capsules in primary episodes of *Clostridiodes difficile* infection: preliminary results from a randomised clinical trial (EudraCT 2017-003147-38)**
E. Reigadas (Madrid, Spain), M. Olmedo, M. Kestler, S. De La Villa, S. Vázquez-Cuesta, S. Rodríguez-Fernández, L. Alcalá, M. Marín, P. Muñoz, E. Bouza*

P1781 **Multidrug-resistant *Acinetobacter baumanii* outbreak at COVID-19 ICU: back to basics in controlling the outbreak**
S. Kamaludeen (Kajang, Malaysia), K.C. Lim, F. Md Isa, F. Abdul Aziz, N. Adnan, S.N. Md Radzi, N.C. Eh Won, M.F. Gasit, A.S. Abdul Ghani*

P1782 **Surviving the COVID-19 pandemic: implementation of online infection prevention and control (IPC) training in hospitals across Pahang state, Malaysia**
N. Nordin (Kuantan, Malaysia), D. Muhamad, N.F. Nik Ali, J.A. Jamal, R. Baharudin, A.N. Mohd Fakhri*

P1783 **The influence of oral cranberry and ascorbic acid on the urinary microbiome**
A. Nussbaumer-Pröll (Vienna, Austria), S. Gröber, S. Eberl, M. Weber, P. Pjevac, B. Hausmann, D. Berry, M. Bauer, V. Al Jalali, M. Wölfl-Duchek, M. Zeitlinger*

P1784 **Development of a GMP-compliant lyophilised faecal microbiota capsule: stability data and clinical outcomes in recurrent *Clostridioides difficile* infection**
B. Merrick (London, United Kingdom), N.M.M. Zain, D. Ter Linden, A.K. Lilley, P.G. Royall, S. Tsoak, K.D. Bruce, A.J. Mason, G. Hatton, E. Allen, L.A. Edwards, D.L. Shawcross, B. Forbes, S.D. Goldenberg*

P1785 **The impact of bedside wipes in multi-patient rooms: a prospective, crossover trial comparing infections and survival in hospitals**
D. Marchaim (Be'er Ya'akov, Israel), M. Dadon, K. Chedid, E. Martin, R. Finkenberg*

P1786 **Comparison of the antimicrobial effectiveness of commercial chlorhexidine washcloths**
A. Kola (Berlin, Germany), A. Wittchen, G. Rose, S. Bolle, C. Geffers, P. Gastmeier*

P1787 **Effectiveness of two different protocols of daily chlorhexidine bathing in the prevention of nosocomial acquisition of multidrug-resistant pathogens and *Candida* species in the intensive care set-up in a tertiary care hospital, Sri Lanka**
D.L.B. Piyasiri (Galle, Sri Lanka), P.M. Sapukotana*

PS061

8h. Disinfection & biocides

P1788 **Treating burn wounds with bacterial cellulose**
G. Cavaco (Caparica, Portugal), J. Saraiva, R. Portela, C. Leal, R. Sobral, P. Almeida*

P1789 **Tolerance to chlorine-disinfection among hospital carbapenemase-producing Enterobacterales (CPE) isolates, 2019-2021**
A. Kearney (Dublin, Ireland), H. Humphreys, D. Fitzgerald Hughes*

P1790 **Residual activity of quaternary ammonium compounds on hydrophilic and hydrophobic hard surfaces**
A. Castelli (Cardiff, United Kingdom), M.W. Shepherd, P. Norville, S. Evans, J.Y. Maillard*

P1791 **Good activity of quaternary ammonium compounds against multidrug-resistant *Enterococcus faecium* of different clonal lineages and origins**
A.P. Pereira (Porto, Portugal), P. Antunes, L. Peixe, A.R. Freitas, C. Novais*

P1792 **Application of atmospheric pressure cold plasma to disinfect face masks**
Y. Sáenz (Logrono, Spain), A. Sainz-García, P. Toledano, I. Muro-Fraguas, L. Alvarez-Erviti, R. Múgica-Vidal, M. López, E. Sainz-García, B. Rojo-Bezares, F. Alba-Elías*

P1793 **Dual species dry surface biofilm: are pathogens being protected from disinfection?**
I. Centeleghe (Cardiff, United Kingdom), P. Norville, L. Hughes, J.Y. Maillard*

P1794 **Photodynamic therapy using 5-ALA and daylight for prevention of periprosthetic joint infections**
J. Prinz (Zurich, Switzerland), M. Wölfle, R. Marti, R. Zbinden, H. Walt, L. Imhof, P.P. Bosshard, Y. Achermann*

P1795 **Efficacy assessment of a fast cycle of hydrogen peroxide nebulisation against bacterial and yeast biofilm**
Â.R. Fernandes (Porto, Portugal), L. Cobrado, E. Ricardo, P. Ramalho, M.M. Azevedo, A.G. Rodrigues*

P1796 **Evaluation of current healthcare laundry hygiene monitoring methodologies**
L. Owen (Leicester, United Kingdom), K. Laird*

P1797 **Inhibition of AdeB, AceI and AmvA efflux pumps restores chlorhexidine and benzalkonium susceptibility in *Acinetobacter baumannii* ATCC 19606**
A. Migliaccio (Naples, Italy), E.P. Esposito, R. Berisio, M. Bagattini, M. Stabile, M. Triassi, E. De Gregorio, R. Zarrilli*

ESCMID-ECDC Observerships

Visit ECDC and find out about the organisation!

A group of observers (ESCMID members) will participate in a five-day programme at the European Centre for Disease Prevention and Control (ECDC) in Solna, Sweden.

The next application period for this visit will be announced via the ESCMID website as well as the ESCMID social media channels.

www.ecdc.europa.eu





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PS062

8i. Healthcare workers and infection prevention (incl vaccination, behavior and practices)

P1798 **Duration and patterns of long-term symptoms in an entire cohort of hospital employees after SARS-CoV-2 positivity**
R. Gruber (Cologne, Germany), G. Schlang, M.V. Montilva Ludewig, S. Herbrandt, F. Mattner*

P1799 **AMS implementation of a "hands-on" educational programme in Argentina, preliminary observations**
W. Cornistein (Buenos Aires, Argentina), W. Belloso, I. Staneloni, F. Pasteran, A. Malvicini, J. Montes, F. Nacinovich*

P1800 **Exposures to SARS-CoV-2 among healthcare workers from primary care, nursing homes and hospitals: a nationwide matched case-control study**
M. Belan (Paris, France), T. Charmet, L. Schaeffer, S. Tubiana, X. Duval, J.C. Lucet, A. Fontanet, G. Birgand, S. Kernéis*

P1801 **Perceived workload and usability related to two types of facial personal protective equipment: preliminary results from a randomised crossover trial**
C.L. Ciofi-Silva (São Paulo, Brazil), Y.L. Lin, L. Cordeiro, N.A. Oliveira, G. Mainardi, A.S. Levin, R.M.A. Almeida, A. Pryce, L. Chu, M.C. Padoveze*

P1802 **The dose-dependent association of cumulative exposure to COVID-19 patients with risk of SARS-CoV-2 infection in healthcare workers and the modulating effect of respirator versus surgical mask use**
T. Dörr (St. Gallen, Switzerland), S. Haller, T. Egger, O. Leal-Neto, D. Flury, A. Brucher, E. Lemmenmeier, C. Möller, P. Rieder, M. Ruetti, R. Stocker, D. Vuichard-Gysin, B. Wiggli, U. Besold, A. Mc Geer, L. Risch, A. Friedl, D. Meier Kleeb, H.R. Schmid, P. Vernazza, M. Schlegel, S.P. Kuster, C.R. Kahlert, P. Kohler*

P1803 **Healthcare waste management at a university hospital in Tunisia: is there a gap between knowledge and practice?**
S. Ben Ayed (Mahdia, Tunisia), I. Mlouki, A. Naimi, R. Ajili, F. Ben Youssef, A. Badri, F. Chebbi, N. Rezg, A. Khouildi, S. El Mhamdi*

P1804 **What is the best set of personal protective equipment in the care for patients with (suspected) viral haemorrhagic fevers in a newly built high-level isolation unit? An assessment of the currently available materials**
L.N. Zweers (Nijmegen, Netherlands), M. Tingen-Wieland, E. Bowles, A. Tostmann, C.P. Bleeker-Rovers*

P1805 **Structuring multidisciplinary protocols for care and treatment of patients with (suspected) viral haemorrhagic fevers in a designated VHF treatment centre in the Netherlands**
L.N. Zweers (Nijmegen, Netherlands), M. Tingen-Wieland, M. Claessens, E. Bowles, A. Tostmann, C.P. Bleeker-Rovers*

P1806 **Development of a hands-on training programme that adequately prepares healthcare workers for care and treatment of patients with (suspected) viral haemorrhagic fevers**
L.N. Zweers (Nijmegen, Netherlands), M. Tingen-Wieland, J. Boeije, E. Bowles, A. Tostmann, C.P. Bleeker-Rovers*

P1807 **They keep the virus out: surgical face masks shield well against infective aerosols**
C.M. Sterr (Marburg, Germany), L.M. Schellenberger, A.D. Dick, C.N. Nonnenmacher-Winter, J.Z. Zirbes, F.G. Günther*

P1808 **Assessment of implementation of the surgical site infection (SSI) prevention measures in Ukrainian healthcare facilities**
T. Baranovskyi (Kyiv, Ukraine), A. Vodianyk, S. Dubrov*

P1809 **Direct observation of hand hygiene compliance: 8 years' experience in a tertiary hospital**
K. Hussein (Haifa, Israel), H. Dabaja-Younis, N. Hassoun-Kheir, J. Tarabeia, S. Warman, W. Aboalhega, I. Firan, T. Alon, E. Lomansov, M. Hamo*

Poster presentation time for **9. Experimental microbiology, microbial pathogenesis & biofilm** Sunday, 24.04.2022 12:00 - 13:00

PS063

9a. Microbial pathogenesis & virulence

P1810 **Genetic characterisation of *exlBA*-positive *Pseudomonas aeruginosa* and other species**
Y. Sáenz (Logrono, Spain), B. Rojo-Bezares, L. Ruiz-Roldán, M. López*

P1811 ***Fusobacterium necrophorum:* association of pathogenic determinants with four clinical presentations**
A. Carrara (Lausanne, Switzerland), C. Bertelli, C. Gardiol, B. Marquis, D. Andrey, T. Pillonel, J. Schrenzel, G. Greub*

P1812 **Influence of human-targeted drugs on virulence factor regulation in EHEC**
B. Von Armansperg (Munich, Germany), M. Koeppel, J. Glaser, M. List, A. Typas, B. Stecher*

P1813 **Pressure ulcer and delay of healing: role of *Proteus mirabilis* and Gram-positive anaerobic cocci**
M. Fayolle (Nîmes, France), L. Grenga, A. Gelis, A. Sotto, J.P. Lavigne, C. Dunyach-Remy*

P1814 **Increased virulence potential of biofilm-producing coagulase-positive staphylococci associated with animal pyoderma**
S.S. Costa (Lisbon, Portugal), M. Andrade, K. Oliveira, C. Morais, P. Abrantes, C. Pomba, A.E. Rosato, I. Couto*

P1815 **Subinhibitory concentrations of antibiotics and disinfectants affect RND family promoter activity in *Acinetobacter baumannii***
S. Prieto Martin Gil (Majadahonda, Spain), A. Tajuelo, M. López-Siles, M.J. Mcconnell*

P1816 **Comparison of virulence factors in colonising and infecting *Klebsiella pneumoniae* isolates obtained from a German multi-centre surveillance study**
K. Lucaßen (Cologne, Germany), K. Xanthopoulou, J. Wille, S.V. Walker, V. Persy, D. Tobys, H. Seifert, P.G. Higgins*

P1817 **Temporal trends of adult invasive pneumococcal disease caused by serotype 3 from 1994 to 2019**
S. Calvo-Silveria (L'Hospitalet De Llobregat, Spain), A. González-Díaz, F. Tubau, J. Càmara, A. Carrera-Salinas, I. Grau, R. Pallarés, M.Á. Domínguez, S. Martí, J. Yuste, C. Ardanuy*

P1818 **Identification of surface proteins of *Leishmania* spp by trypsin shaving: possible new targets for diagnosis, treatment and prevention**
N. Mansur-Ozen (Istanbul, Turkey), O. Ozcan, T. Kocagoz, O. Kurt*

P1819 **The virulence of *Klebsiella pneumoniae* during development of colistin resistance through persister cells**
C. Vatansever (Istanbul, Turkey), G. Ekinci, G. Ozcan, J. Boral, O. Dogan, S. Menekse, M.A. Kuskucu, M. Gonen, F. Can*

P1820 **The alteration of pyoverdine siderophore in *Pseudomonas aeruginosa* ST235 high risk clone**
C. Vatansever (Istanbul, Turkey), G. Ozcan, S. Kolsuz, O. Kurt Azap, S. Menekse, O. Dogan, A.M. Kuskucu, M. Gonen, F. Can*

P1821 **From colonisation to infection: how SSB-P modulate the virulence of *Staphylococcus aureus* in diabetic foot ulcers?**
N. Ahmad-Mansour (Montpellier, France), S.H.B. Huc-Brandt, C.D.R. Dunyach-Remy, J.P.L. Lavigne, V.M. Molle*

P1822 **Genotypical traits in *Staphylococcus aureus* clinical isolates from the lower respiratory tract: a focus on alpha-hemolysin and accesory gene regulator**
A. Lacoma (Badalona, Spain), J. Sánchez-Herrero, M. Laabei, L. Sumoy, C. Prat, C. Prat*

P1823 **Understanding the effects of *H. pylori* ΔOipA strain on mitochondrial function by comparing *H. pylori* Δ CagA, ΔVacA and ΔCagAVacA strains**
S. Akcelik Deveci (Istanbul, Turkey), Y. Buyukcolak, D. Oz Arslan, S. Oktem Okullu*

P1824 **Different cell death associated with hypervirulent *K. pneumoniae* clinical strain**
H.A. Kim (Daegu, Korea, Republic of), J. Lee, M. Hyun, W.K. Baek*

P1825 ***Staphylococcus aureus* persistence and biofilm adaptation in the sinuses of people with chronic rhinosinusitis**
G. Houtak (Adelaide, Australia), R. Nepal, G. Bouras, C. Cooksley, A. Psaltis, P.J. Wormald, S. Vreugde*

P1826 **Characteristics of the non-epidemic sequence type (ST) 23^{Pas} *Acinetobacter baumannii* isolates in China**
Z.R. Wang (Beijing, China), H. Li, J. Zhang*

P1827 **Evaluation of gene expression conditioning the formation of biofilm among hospital strains of *Staphylococcus epidermidis* isolated from neonates' blood with confirmed catheter-related sepsis**
I. Skiba-Kurek (Kraków, Poland), M. Wawrzyniak, M. Pach, J. Empel, M. Tomczak, E. Karczewska*

P1828 **Different stress conditions lead to different prophage responses changing the phenotype of *Acinetobacter baumannii***
R. Monteiro (Braga, Portugal), L.D.R. Melo, J.M. Van Dijl, J. Azeredo*

P1829 **Comparative pangenome analysis of capsulated *Haemophilus influenzae* serotype f highlights their high genomic stability**
A. Gonzalez-Diaz (Barcelona, Spain), A. Carrera-Salinas, M. Pinto, M. Cubero, A. Van Der Ende, J.D. Langereis, M.Á. Dominguez, C. Ardanuy, P. Bajanca-Lavado, S. Martí*

P1830 **Prevalence of capsulated strains in urogenital *Haemophilus parainfluenzae* (2013-2019)**
L. Saiz-Escobedo (Barcelona, Spain), A. González-Díaz, D.A. Vázquez Sánchez, Y. Sierra, A. Carrera-Salinas, I. Cadenas-Jiménez, S. Calvo-Silveria, F. Tubau, C. Ardanuy, S. Martí*

P1831 **Inhibitory effects of caffeine on curli-dependent biofilm formation in uropathogenic *E. coli***
B. Rathi (Delhi, India), M. Yadav*

P1832 **Pathogenesis of *Acinetobacter baumannii* induces mitochondrial fragmentation in host cells**
M. Tietgen (Frankfurt Am Main, Germany), L. Leukert, J. Sommer, I. Wittig, S. Göttig*

P1833 **Identify genetic factors related to human endothelial cells damage, an important phenotype correlated with persistent methicillin-resistant *Staphylococcus aureus* (MRSA) endovascular infection**
Y. Li (Torrance, United States), X. Xiao, Y. Xiong*

P1834 **Biofilm formation of *Staphylococcus lugdunensis* strains is associated with clonal lineage and dependent on iron availability**
L. Destruel (Rouen, France), S. Dahyot, X. Argemi, M. Grand, G. Prevost, M. Pestel-Caron*

P1835 **Redefining hypervirulent *Klebsiella pneumoniae* by genetic biomarkers and phenotypic assays**
T.T.D. Tran (Taipei, Taiwan, China), C.Y. Kao*

P1836 **Molecular genetic characteristics of *K. pneumoniae* strains isolated from different sites of the same patients in the intensive care unit**
I. Novikova (Moscow, Russian Federation), Z. Sadeeva, R. Shakirzyanova, N. Alyabieva, A. Lazareva*

P1837 ***Haemophilus influenzae* genetic adaptation during long-term azithromycin therapy in patients with chronic obstructive pulmonary disease (COPD)**
A. Carrera-Salinas (Barcelona, Spain), A. González-Díaz, I. Cadenas-Jiménez, D.A. Vázquez-Sánchez, L. Saiz-Escobedo, S. Calvo-Silveria, F. Tubau, E. Cuevas, D. Huertas, X. Pomares, M.Á. Domínguez, C. Ardanuy, A. Marín, C. Montón, S. Santos, S.M.A.R.T. Martí*

P1838 **Identification of virulence genes in OXA-48-producing and wild-type *Klebsiella pneumoniae* clinical isolates by PCR-multiplex**
M. Rodríguez-Iglesias (Cádiz, Spain), A. Mateo-Vargas, S. Rodríguez-Pallares, F. Galán-Sánchez*

P1839 **Analysis of virulence mechanisms in *Pseudomonas aeruginosa* strains isolated from patients with bronchiectasis**
L. Fernández-Barat (Barcelona, Spain), R. Cabrera, N. Vázquez, V. Alcaraz, L. Bueno-Freire, R. López-Aladid, R. Amaro, P. Oscanoa, L. Muñoz, J. Vila, A. Torres*

P1840 **Detection and characterisation of "string test positive" *Acinetobacter baumannii***
N. Rakovitsky (Tel Aviv, Israel), M. Lurie-Weinberger, A. Keren-Paz, P. Elmalih, R. Rov, Y. Carmeli*

P1841 ***Moraxella* keratitis: investigating emerging pathogenicity through clinical and microbiological findings and whole genome sequencing for virulence determinants**
G. Connolly (Dublin, Ireland), A. Curry, D. Jaen-Luchoro, C. Murphy, T. Mc Swiney, S. Knowles*

PS064

9b. Host-pathogen interaction (including basic microbiome studies)

P1842 ***Gardnerella* in the urine microbiota of healthy women and patients diagnosed with overactive bladder: relevance insights by whole genome sequencing**
M.D. De Sousa (Porto, Portugal), M. Ksiezarek, S. Ugarcina Perovic, T. Gonçalves Ribeiro, F. Grosso, L. Peixe*

P1843 **Intracellular *Staphylococcus aureus* induces a cytoplasmic Ca^{2+} influx that inhibits TFEB mediated-autophagy and promotes bacterial replication**
P. Verhoeven (Saint-Étienne, France), E. Audoux, R. Caire, K. Rodriguez, A. Peyron, J. Josse, P. Berthelot, F. Laurent*

P1844 **The role of peptidoglycan amidation in host immune response**
Gonçalves Bárbara (Caparica, Portugal), B. Gonçalves, G. Cavaco, H. De Lencastre, L.J. Mota, R. Sobral*

P1845 **New factors of lysozyme resistance in *Staphylococcus aureus* associated with peptidoglycan amidation**
G. Cavaco (Caparica, Portugal), A. Fanico, B. Gonçalves, N. Faria, M. Miragaia, R. Sobral*

P1846 **Reduced killing of *Escherichia coli* by blood phagocytes from *Clostridioides difficile*-infected patients**
R. Nau (Göttingen, Germany), K. Heinen, V. Meier, M. Ballüer, H. Eiffert, J. Seele*

P1847 **Microbiome composition of bile and stents samples from patients with biliary benign strictures**
M. Cacaci (Rome, Italy), I. Boškoski, F. De Maio, G. Menchinelli, G. Costamagna, F. Bugli, B. Posteraro, M. Sanguinetti*

P1848 **Comparison of the vaginal and endometrial microbiome applying culturomics: preliminary data of a case series**
R. Vanstokstraeten (Brussels, Belgium), S. Mackens, E. Callewaert, C. Blockeel, D. De Geyter, A. Muyldermans, I. Wybo, D. Piérard, T. Demuyser*

P1849 **Whole genome analysis of *Streptococcus salivarius* 24SMBc and its inhibitory effects on *S. pneumoniae* and *S. pyogenes* strains**
G. Vertillo Aluisio (Catania, Italy), A. Spitale, L. Bonifacio, A. Stivala, A. Romano, V. Cafiso, S. Stefani, M. Santagati*

P1850 **Changes in the lipidome of plasma exosomes and in the gut microbiota may reflect the status of *Clostridioides difficile* infection**
R.M. Arcay (Palma, Spain), L. Suárez-Bode, L. Martín, R. Reigada, M. Barceló-Nicolau, C. Garrido, C. López-Causapé, A. Oliver, G. Barceló-Coblijn, A. Mena*

P1851 **LPS-detoxifying intestinal alkaline phosphatase improves healing of experimental colitis in obese mice subjected to forced treadmill exercise. Involvement of microbiota changes, proinflammatory biomarkers and oxidative stress**
D. Wojcik-Grzybek, (Kraków, Poland), Z. Sliwowski, G. Ginter, A. Wojcik, S. Swierz, A. Danielak, D. Pawelczak, T. Renkas, R. Dziedzic, S. Kwiecien, T. Brzozowski*

P1852 **Homocysteine and inflammatory cytokines in the clinical assessment of patients with chronic venous leg ulcers infected by biofilm-producing bacteria**
I. Cavallo (Rome, Italy), F. Sivori, I. Lesnoni La Parola, T. Koudriavtseva, L. Toma, F. Ensoli, E.G. Di Domenico*

P1853 **Deciphering the upper and lower respiratory tract microbiota complexity in healthy and diseased pigs**
M. Pirolo (Frederiksberg, Denmark), C. Tassinato, H. Bak, C. Espinosa-Gongora, L. Guardabassi*

P1854 **Microbiome landscape from the oral cavity to the tumour of patients diagnosed with colorectal cancer**
K. Conde-Pérez (A Coruña, Spain), J.A. Vallejo, P. Aja-Macaya, M. Nasser, E. Martin-De Arribas, I. Iglesias-Corrás, L.S. Estévez, B. Otero-Alén, J.F. Noguera, Á. Concha, S. Rumbo-Feal, N. Trigo-Tasende, E. Buetas, S. Pardiñas-López, M. Cardá-Diéguez, M.I. Gómez-Randulfe, N.P. Martínez-Lago, S. Ladra, A. Mira, L.A. Aparicio, G. Bou, M. Poza*

P1855 ***Neisseria gonorrhoeae* co-infection during latency of *Chlamydia muridarum* does not modulate vaginal viable bacterial shedding in a mouse model**
D. Onorini (Zurich, Switzerland), C.A. Leonard, R. Schoborg, A. Jerse, B. Tarigan, N. Borel*

P1856 **Genomic and proteomic analysis of 21 novel lytic phages of *K. pneumoniae***
I. Bleriot (A Coruña, Spain), L. Blasco, O. Pacios, L. Fernandez-Garcia, A. Ambroa, M. Lopez, C. Ortiz-Cartagena, M. González De Aledo, F. Fernandez-Cuenca, J. Oteo-Iglesias, A. Pascual, L. Martinez-Martinez, P. Domingo-Calap, M. Tomas*

P1857 **A deep look at the vaginal environment during pregnancy and puerperium**
S. Morselli (Bologna, Italy), C. Foschi, M. Severgnini, T. Camboni, C. Ceccarani, L. Laghi, S. Zagonari, G. Patuelli, M.F. Pedna, V. Sambri, C. Consolandi, A. Marangoni*

P1858 **Antibiotic tolerance in a model of murine *Escherichia coli* pyelonephritis**
A. Amoura (Paris, France), S. Dion, F. Chau, E. Denamur, A. Lefort, I. El Meouche*

PS065

9c. Preclinical biofilm studies

P1859 **Unraveling the anti-virulence potential of the rhenium(I) tricarbonyl complexes using the zebrafish model of disseminated candidiasis**
N. Radakovic (Belgrade, Serbia), S. Nasiri Sovari, F. Zobi, A. Pavic*

P1860 **Improvement of the antibiofilm activity of lytic bacteriophages through a 30-round directed evolution assay against resistant *Staphylococcus aureus* strains**
L. Ponce-Benavente (Berlin, Germany), J. Wagemans, R. Lavigne, A. Trampuz, M. Gonzalez-Moreno*

P1861 **A novel enzyme collection for *Pseudomonas aeruginosa* and *Staphylococcus aureus* biofilm dispersion**
A.C. Oliveira (Lisbon, Portugal), I. Costa, I. Venditto, I.J. Silva, A.F. Sequeira, J.L.A. Brás, C.M.G.A. Fontes, P. Bule*

P1862 **On the development of polymicrobial biofilm models to understand the complex microbiome of infected chronic wounds and their successful antimicrobial treatment**
G. Landa Baila (Zaragoza, Spain), S. Irusta Alderete, G. Mendoza Cantos, M. Arruebo Gordo, F. Tewes*

P1863 **Novel narrow-host-range *Stenotrophomonas maltophilia* bacteriophage as potential therapeutic agent**
R. Fanaei Pirlar (Berlin, Germany), F. Kunisch, A. Trampuz, M. Gonzalez Moreno*

P1864 **Novel *Siphoviride* bacteriophage specific against *Staphylococcus epidermidis* and with antibiofilm activity**
R. Fanaei Pirlar (Berlin, Germany), L. Ponce Benavente, A. Trampuz, M. Gonzalez Moreno*

P1865 **Evaluation of antibacterial activity of silver nanoparticles-coated surface of antibiotic-loaded PMMA**
V. Stadler Tasca Ribeiro (Curitiba, Brazil), J.F. Soni, A.P. De Andrade, P.H. Suss, J. Cieslinski, L.R. Dantas, B.Z. Pereira, B.M.R.C. De Almeida, J.P. Telles, F.F. Tuon*

P1866 **Disgregation of *P. aeruginosa* biofilm by glyco-engineered graphene oxide**
M. Cacaci (Rome, Italy), F. Bugli, R. Torelli, M. Di Vito, B. Richichi, S. Cicchi, G. Biagiotti, J. Tricomi, M. Sanguinetti*

P1867 ***In-vitro* study of dual species biofilms formed by clinical isolates of *S. aureus* and different phenotypes of *P. aeruginosa* collected as pairs from patients with cystic fibrosis (CF)**
Z. Wang (Brussels, Belgium), A. Ruiz-Sorribas, C. Knoop, F. Van Bambeke*

P1868 **Rhamnolipid biosurfactant coating contrasts *Streptococcus oralis* biofilm on medical grade titanium preserving osteoblast adhesion**
F. Tessarolo (Trento, Italy), E. Tambone, A. Marchetti, C. Ceresa, F. Piccoli, A. Anesi, G. Nollo, I. Caola, M. Bosetti, L. Fracchia, P. Ghensi*

P1869 ***In vitro* adhesion and biofilm formation on polyester-collagen grafts are impacted by triclosan**
M. Puges (Bordeaux, France), F. M'zali, S. Vilain, X. Bérard, C. Cazanave*

P1870 **Nisin Z potential to control biofilm-related diabetic foot infections**
M. Oliveira (Lisbon, Portugal), B. Alhinho, E. Cunha, L. Tavares, A. Trindade*

P1871 **The *in vitro* effect of antibiotic loaded bone void filler beads on the prevention of biofilm formation on implant surfaces**
C.P. Delury (Keele, United Kingdom), J. Fletcher, S. Michell, C. Liddle, C. Hacker, S. Aiken, R. Wilson-Van Os*

P1872 **The effect of antibiotic loaded calcium sulfate beads on bacterial growth from infected diabetic foot ulcer tissue: an *in vitro* analysis**
C.P. Delury (Keele, United Kingdom), J. Fletcher, S. Michell, R. Porter, S. Aiken*

P1873 **Antimicrobial activity bovine bone scaffolds impregnated with silver nanoparticles on bacterial and fungal biofilm: an *in vitro* study**
F. Tuon (Curitiba, Brazil), L. Dantas, L. Kraft, V. Ribeiro, G. Goncalves, M. Witt, E. Carneiro, J. Telles*

P1874 ***Pseudomonas aeruginosa* adherence evaluation on a 6063 aluminium alloy surface modification**
J. Esteban (Madrid, Spain), M. Medel-Plaza, R. Fernandez-Jimenez, J.J. Aguilera-Correa, M.A. Arenas, I.M. Garcia-Diego, A. Conde, J.J. De-Damborenea*

P1875 ***In vitro* antimicrobial susceptibility testing of planktonic and sessile Gram-negative bacilli isolated from prosthetic joint infections**
J. Esteban (Madrid, Spain), A. Macias-Valcayo, A. Broncano-Lavado, J.J. Aguilera-Correa, L. Salar-Vidal*

PS066

9d. Experimental and cellular microbiology

P1876 **Free DNA in phage stocks leads to an increased phage titre when determined with qPCR compared to DAO**
S. Van Overfelt (Ghent, Belgium), H. Duyvejonck, P. Cools, M. Vaneechoutte, S. Vermeulen, E. Van Mechelen*

P1877 **Diversification of *Pseudomonas aeruginosa* biofilm populations under repeated bacteriophage exposure decreases treatment efficacy**
M.G. Martinet (Copenhagen, Denmark), W. Hengzhuang, T. Tchatchiashvili, M. Marquet, M. Pletz, M. Middelboe, O. Ciofu*

P1878 **Different metabolic proficiency among dominant ExPEC lineages**
J. Kloos (Tromsø, Norway), L. Jänisch, A.K. Pöntinen, Ø. Samuelsen, P.J. Johnsen, J. Corander, J.A. Gama*

P1879 **Comprehensive mutagenesis of a widely-occurring antibiotic resistance plasmid harbouring the mobile colistin resistance (MRC1) gene**
M. Wille (Giessen, Germany), N. Keitman, S. Azarderakhsh, T. Chakraborty, L. Falgenhauer*

P1880 **A study of the antimalarial effects of the novel synthesised nanocomposite *in vivo***
F. Tabatabaie (Tehran, Iran, Islamic Republic of), T. Elmi*

P1881 **Co-trimoxazole-resistant small colony variants of *Staphylococcus aureus* obtained following exposure to the cancer chemotherapy drug 5-fluorouracil**
B. Evans (Norwich, United Kingdom), S. Henderson*

P1882 **Biofilm development evaluation on an anodized CoCrMo alloy**
M. Martin-Garcia (Madrid, Spain), J.J. Aguilera-Correa, M.A. Arenas, I.M. Garcia-Diego, A. Conde, J.J. De Damborenea, T.T. Gupta, N.K. Gupta, P. Stoodley, J. Esteban*

P1883 **Bacterial adherence study of clinically relevant species on an anodized CoCrMo alloy**
M. Martin-Garcia (Madrid, Spain), J.J. Aguilera-Correa, M.A. Arenas, I.M. Garcia-Diego, A. Conde, J.J. De Damborenea, J. Esteban*

P1884 **Genetic architecture in *E. coli* hybrids**
T. Berruga-Fernández (Uppsala, Sweden), K. Bartke, D.L. Huseby, D. Hughes*

P1885 **Anti-chlamydial activity of vaginal fluids in different phases of the menstrual cycle**
S. Morselli (Bologna, Italy), C. Foschi, M. Salvo, A. Marangoni*

P1886 **A preliminary investigation of antibiotic effects on bacterial viability using SEM-EDX analysis**
J. Bou Khalil (Marseille, France), T. Takakura, S. Bellali, G. Haddad, A. Fontanini, Y. Ominami, D. Raoult*

PS067

9e. Basic studies using Omics (*in vitro* and *in vivo*)

P1887 **New DNA methylation signatures in bacteria**
M. Kaniusaite (Oslo, Norway), G. Fang, A. Tourancheau, T. Tønjum*

P1888 **Lung microbiome of *Pseudomonas aeruginosa* colonised and un-colonised cystic fibrosis patients attending public hospitals in Gauteng, South Africa**
T. Hamiwe (Pretoria, South Africa), R. Green, D. White, S. Klugman, L. Van Bruwaene, A. Goga, A. Isamil, S. Kwenda, M. Kock, M. Ehlers*

P1889 **Redox regulation of bacterial gene expression: understanding host defense to identify potential new antibiotic targets**
M. Roth (Geneva, Switzerland), P. François, V. Jaquet, Y. Cambet, S. Lemeille, K.H. Krause*

P1890 **Biofilm-induced meropenem tolerance at sub-minimal biofilm-eradication concentrations in lung-airway *Acinetobacter baumannii* infection model: indicates the need for higher or combination dosing regimen**
N.K. Devanga Ragupathi (Sheffield, United Kingdom), D.P. Muthuirulandi Sethuvel, D. Murugan, P.N. Monk, B. Veeraraghavan, E. Karunakaran*

P1891 **Preliminary data of high-throughput culture on sink drains reveals a possible link between the presence of *Candida* species and VIM-producing *Pseudomonas aeruginosa* in a Belgian tertiary care intensive care unit**
R. Vanstokstraeten (Brussels, Belgium), J. Berrocal Calafell, D. De Geyter, A. Muyldermans, I. Wybo, D. Piérard, T. Demuyser*

P1892 ***Pseudomonas aeruginosa* transcriptome during phage predation under simulated human airway epithelium conditions**
A. Brandão (Braga, Portugal), L. Putzeys, D.P. Pires, M. Voet, J. Azeredo, R. Lavigne*

Poster presentation time for **10. Immunology & vaccinology**
Monday, 25.04.2022 12:00 - 13:00

PS068

10a. Host genetics: infection susceptibility & immunodeficiency

P1893 **The alternative allele of *TLR3* (rs3775291) SNP confers protection against CMV infection after kidney transplantation**
N. Redondo (Madrid, Spain), I. Rodríguez-Goncer, P. Parra, T. Ruiz-Merlo, F. López-Medrano, E. González, A. Hernández, H. Trujillo, R. San Juan, A. Andrés, J.M. Aguado, M. Fernández-Ruiz*

PS069

10b. Clinical epidemiology and treatment of infections in immunocompromised hosts

P1894 **Real-life experience with rectal swab screening for multidrug-resistant bacteria and its relationship with bloodstream infections in an oncohaematologic and haematopoietic stem cell transplant unit in Colombia**
G. Lopez (Bogotá, Colombia), C.X. Ramirez, O. Peña, E. Pedraza, J. Figueroa, E. Mora, A. Guarin, C. Lamadrid, P. Pinzon, C. Gomez*

P1895 **Severe infections in patients on biologic immunosuppressive therapy (BIT): evaluation of a multidisciplinary specific team**
M.L. Pedro-Botet (Badalona, Spain), E. Montané, O. Hladun, M. Núñez-Montero, A.P. Pérez-Acevedo, G. Cardona, M. Esteve, B. Blanco, J. Valera, A.M. Barriocanal, S. Roure*

P1896 **Infectious complications after CAR T cell therapy: a scoping review**
S.J.G. Garland (Vancouver, Canada), L. Lindo, C. Yang, D. Hesson, S. Belga*, K. Hay**

P1897 **Clinical impact of the use of a clinical score to predict multidrug-resistant Gram-negative bacilli bacteraemia in onco-haematological patients: a real-life experience in a university hospital**
D. Torres (Buenos Aires, Argentina), A. Carena, F. Bues, A.N. Rearte, R. Rojas, P. Bonvehí, E. Temporiti, M. Querci, C. Salgado, M. Leone, F. Nicola, F. Herrera*

PS070

10c. General vaccinology (incl. policy, social aspects)

P1898 **Vaccines beliefs and concerns of patients with immune-mediated inflammatory diseases**
A. Martins (Porto, Portugal), E. Branco, R. Rocha, A. Sarmento, C. Abreu*

P1899 **Attitudes and practices among German travel health advisors towards influenza vaccination for international travelers and barriers for vaccination: a questionnaire-based survey**
T.T. Brehm (Hamburg, Germany), S. Jordan, M.M. Addo, M. Ramharter, B. Kreuels*

P1900 **Systematic review and meta-analysis of vaccine effectiveness of two-dose measles vaccination: high enough for elimination?**
L. Hemmers (Berlin, Germany), J. Bitzegeio, D. Sagebiel, D. Werber*

P1901 **Vaccination delivery system responses to compound shocks: the limits of system resilience in Lebanon**
S. Ismail (London, United Kingdom), A. Tomoaia-Cotisel, A. Noubani, F. Fouad, S. Bell, K. Blanchet, J. Borghi*

P1902 **Cost-effectiveness of vaccination strategies to inform the final stages of polio eradication**
M. Auzenbergs (London, United Kingdom), K. O'reilly, K. Abbas*

P1903 **SARS-CoV-2 vaccine in the spotlight, but are our HIV patients properly vaccinated?**
P. Galicia (Madrid, Spain), M. Linares, H. Moza, J. Sanz Moreno, B. Beteré Cubillo, C. García Bertolín, F. Pérez Garcia, T. Arroyo, R. González Palacios, R. Pérez Tanoira, P. Gómez Herruz, A. González Sarria, J. Cuadros*

P1904 **Vaccines adherence in patients with immune-mediated inflammatory diseases**
A. Martins (Porto, Portugal), F. Silva, G. Canelas, L. Ribeiro, S. Pinto, A. Sarmento, C. Abreu*

P1905 **Inconstant matching between patient vaccine hesitancy as evaluated by family doctor and as self-declared by patients themselves**
O. Epaulard (Grenoble, France), J. Lescop, B. Pennes*

P1906 **Impact of the COVID-19 pandemic on the uptake of seasonal influenza vaccination in a large rural area in Greece**
N. Spernovasilis (Heraklion, Greece), A. Papazachariou, C. Tsioutis, O. Malikides, M. Stamatelatou, N. Vasilaki, E. Mintzaridis, M. Dasenaki, A. Milioni, D. Ierodiakonou*

P1907 **Introducing rotavirus vaccine to the Palestinian territory: impact on diarrhoea incidence, rotavirus prevalence and genotype composition**
W. Rennert (Washington, United States), M. Hindiyeh, M. Laham*

P1908 **'We don't routinely check vaccination background in adults': a national qualitative study of facilitators and barriers to vaccine uptake in adult migrants**
S. Hargreaves (London, United Kingdom), J. Carter, F. Knights, A. Mehtrotra, A. Deal, A. Crawshaw*

PS071

10d. Antiviral vaccines (excl influenza, respiratory and bloodborne viruses)

P1909 **Safety and immunogenicity of a simian-adenovirus-vectored rabies vaccine in a phase I clinical trial**
D. Jenkin (Oxford, United Kingdom), A. Ritchie, J. Aboagye, S. Fedosyuk, C. Cole, J. Xiang, E. Bolam, E. Berrie, F. Ramos Lopez, A. Platt, I. Poulton, C. Green, H. Ertl, K.J. Ewer, A.D. Douglas*

P1910 **Seroprevalence of IgG antibodies against measles in healthcare workers of a Portuguese hospital**
L. Morais (Tomar, Portugal), R. Figueiredo, H. Alves, J. Mota, A. Nascimento, R. Coelho, R. Soares, I. Bernardo, M. Almeida, P. Gama, C. Cortes*

PS072

10e. Antibacterial vaccines

P1911 **Genomic-based coverage prediction for MenB vaccines among Portuguese invasive *Neisseria meningitidis* strains**
C. Bettencourt (Lisbon, Portugal), M. Simões*

P1912 **Passive immunity in treatment of extremely drug-resistant *Elizabethkingia anophelis* infection**
M.H. Chiang (Taipei, Taiwan, China), H.C. Chen, Y.S. Yang, T.L. Chen, D.K. Kesavan*

P1913 **Alteration of *Pseudomonas aeruginosa* lipid A to decrease the reactogenicity of D-glutamate auxotrophic whole-cell vaccines**
V. Fuentes-Valverde (A Coruña, Spain), M. Moscoso, P. García, J.A. Vallejo, J. Pérez-Ortega, J. Arenas, G. Bou*

P1914 **A double auxotrophic *Pseudomonas aeruginosa* strain induces protective immune response against PA14 acute lung infection**
V. Fuentes-Valverde (A Coruña, Spain), M. Moscoso, P. García, G. Bou*

P1915 **Immediate re-emergence of invasive pneumococcal disease in Germany after strong reduction throughout SARS-CoV-2 pandemic lockdown**
M. Van Der Linden (Aachen, Germany), M. Imöhl, A. Itzek*

P1916 **Reduction in serotype 19A IPD in youngest children in the second year post re-switch from PCV10 to PCV13 in Belgium**
S. Desmet (Leuven, Belgium), L. Cuypers, G.J. Sánchez*

P1917 **Evolution of PCV13-non-PCV10 serotypes in adults during the use of different PCVs in the Belgian childhood vaccination programme**
S. Desmet (Leuven, Belgium), L. Cuypers, G.J. Sánchez*

P1918 **Evaluation of antibody titres and antibody response to immunisations in survivors of immune effector cell therapy**
G. Angelidakis (Houston, United States), R.F. Chemaly, P. Kebriaei, N.J. Ajami, P.V. Sahasrabhojane, M.M. Bhatti, E. Shpall, C. Hosing, P. Jain, K.M. Mahadeo, F. Khawaja, J.A. Wargo, R.R. Jenq, E. Ariza-Heredia*

P1919 **Impact of a pneumococcal polysaccharide vaccination programme on invasive pneumococcal disease in elderly in the Netherlands**
F.A. Niessen (Bilthoven, Netherlands), C.H. Van Werkhoven, H.E. De Melker, N.M. Van Sorge, A.B. Van Gageldonk-Lafeber, M.J. Knol*

P1920 **Carriage of pneumococcal serotype 19A decreases substantially in Belgian children attending day-care centres (DCC) only two years after the PCV10-to-PCV13 vaccine switch**
E. Ekinci (Antwerp, Belgium), S. Desmet, L. Van Heirstraeten, L. Willen, C. Lammens, J. Verhaegen, H. Goossens, P. Van Damme, P. Beutels, S. Malhotra-Kumar, H. Theeten*

P1921 **An integrated safety analysis of the new fully liquid presentation of MenACWY-CRM vaccine**
M. Pellegrini (Siena, Italy), T. Akhund, P.V. Singh, P. Tiberi, G.F. Di Domenico, V. Romolini, T. Mzolo, M. Costantini, V. Basile, M. Lattanzi*

P1922 **Invasive pneumococcal disease, incidence and serotype distribution of *Streptococcus pneumoniae* during the pandemic of COVID-19**
P.M. Juiz (Ferrol, Spain), S. Méndez, N.D.C. Somaza, D. Velasco, G. Barbeito, F.J. Vasallo, P. Capón, M.V. Pulián, M.I. Paz, M. Serrano, P. Alonso, M.I. Rodríguez, J.A. Agulla*

P1923 **Immunogenicity and safety of a 20-valent pneumococcal conjugate vaccine (PCV20) administered concomitantly with a quadrivalent inactivated influenza vaccine in adults ≥ 65 years of age**
W. Watson (Collegeville, United States), K. Cannon, J. Cardona, T. Belanger, D.Y. Lee, Y. Peng, L. Moyer, J. Ginis, A. Thompson, W.C. Gruber, K. Jansen, D.A. Scott, K. Yacisin*

P1924 **Active surveillance of adverse event following immunisation (AEFI) of typhoid conjugate vaccines with measles vaccines in Kharadar General Hospital, Karachi**
Z. Haq (Karachi, Pakistan), T. Yousafzai, F. Qamar, S. Karim*

P1925 **Improved xenophagy through recombinant BCG as a strategy for a new generation vaccine against tuberculosis**
I. Palucci (Rome, Italy), A. Salustri, F. De Maio, G. Bianchetti, G. Maulucci, R. Manganelli, M. Sanguinetti, M. Sali, G. Delogu*

P1926 **Seroprevalence of humoral immunity against *Staphylococcus aureus* vaccine candidate Coproporphyrinogen III oxidase (CgoX)**
L. Maus (Cologne, Germany), A. Gluschko, M. Herb, M. Gonzalez Rodriguez, K. Wiegmann, D. Grumme, S. Mertins, A. Klimka, M. Krönke*

PS073

10f. Immune response to infection (excl sepsis biomarkers)

P1927 **Clofazimine affects macrophage activity *in vitro* and *in vivo***
R. Wolfensberger (Zurich, Switzerland), E. Sarti, P. Sander, M. Meuli, S. Bredl, R.F. Speck, J. Nemeth*

P1928 **How bacterial vaginosis influence the innate immune response to HPV in cervical cells**
M. Fracella (Rome, Italy), M. Scordio, L. Sorrentino, F. Frasca, G. Oliveto, A. Viscido, F. Di Lella, M. Gentile, C. Scagnolari, V. Pietropaolo, N. Recine, G. Antonelli, A. Pierangeli*

P1929 **The presence of Epstein-Barr virus is associated with lymphoproliferative disorders susceptibility in patients with rheumatoid arthritis: a meta-analysis**
D. Miljanovic (Belgrade, Serbia), A. Banko, I. Lazarevic, I. Jeremic, M. Grk, A. Despotovic, A. Cirkovic*

PS074

10g. Laboratory assessment of immunity and immune response to infection

P1930 **Impact of cytomegalovirus on natural killer immunophenotyping in multiple sclerosis**
V. Perri (Rome, Italy), M.A. Zingaropoli, P. Pasculli, F. Ciccone, A. Taglietti, M. Tartaglia, V. Baione, A. Conte, M. Lichtner, C.M. Mastroianni, M.R. Ciardi*

P1931 **Immune response against SARS-CoV-2 seven months after vaccination with BNT162b2 in health workers patients**
E. Serrano-Conde (Granada, Spain), A. Leyva-Calero, A. Fuentes-Lopez, L. Viñuela-Gonzalez, A. De Salazar, F. Garcia*

P1932 **Role of interferon-gamma release assay for screening and monitoring of latent tuberculosis infection in kidney transplant recipients**
J. Bruminhent (Bangkok, Thailand), T. Treekajonsak, S. Kantachuvesiri, C. Setthaudom, W. Sukkasem, T. Kawamatawong*

P1933 **Occurrence of idiopathic CD4 lymphocytopenia with disseminated infections in HIV-negative immunocompetent individuals: a prospective observational study**
N.K. Midha (Jodhpur, India), T. Banavathu, D. Kumar, A. Purohit, S. Khichar, G.K. Bohra, D.S. Meena, M.K. Garg*

P1934 **Mucosal antimicrobial peptides in the sputum of children with cystic fibrosis**
O. Ishchenko (Dnipro, Ukraine), I. Koshova, O. Andriiyashyna, D. Stepanskiy*

Poster presentation time for **11. Other**
Monday, 25.04.2022 12:00 - 13:00

PS075

11a. Professional affairs and career development

P1935 **Does English language proficiency level influence ESCMID abstracts/grants acceptance?**
G. De Angelis (Rome, Italy), I. Urbina, F.M. Lohmeyer, O. Opota, A.M. Sonnevend, M. Sanguinetti, E. Cambau*

PS076

11b. Publishing, ethics, other academic affairs

P1936 **Women authorship in infectious diseases journals is influenced by women editorship**
K. Last (Homburg, Germany), L. Hübsch, M. Cevik, S.E. Müller, A. Huttner, C. Papan*

PS077

11c. Medical education for CM/ID

P1937 **KrobsPro: a website developed by medical students for medical students and other health professionals**
G. Greub (Lausanne, Switzerland), O. Vandenberg, C. Kebbi, A. Coste, M. Hallin*

P1938 **Teaching medical microbiology during the COVID-19 pandemic: perceptions of medical undergraduates and the effects of online learning**
C. Papan (Homburg, Germany), M. Schmitt, S.L. Becker*

P1939 **KROBS and MyKROBS: two playful card games to develop people's awareness of pathogenic microorganisms**
G. Greub (Lausanne, Switzerland), C. Kebbi-Beghdadi*

P1940 **Evaluation of the KROBS card game for teaching of microbiology to medical students**
G. Greub (Lausanne, Switzerland), V. Scherz, C. Kebbi Beghdadi*

P1941 **Knowledge and practices on antibiotic use among Sri Lankan prescribers**
V. Liyanapathirana (Kandy, Sri Lanka), G. Shu, K. Jayawardena, D. Jayaweera Patabandige, A. Tennegedara*

P1942 **A multi-country assessment of gaps and systemic barriers in the diagnosis of infections**
D. Goff (Westerville, United States), S. Péloquin, M. Augustyniak, A. Apisarnthanarak, M.V. Villegas, P. Lazure*

P1943 **The impact of the SARS-CoV-2 pandemic on Irish clinical microbiology trainers and trainees**
N. O'mara (Cork, Ireland), R. Barry, M. Prentice, A. Wiese*

P1944 **Hybrid undergraduate ID training within a European educational network: the IDEAL+ coincidental experience to overcome pandemic challenges**
C. Charlier (Paris, France), F. Wolf, L. Van Bruggen, E. Vlieghe, H. Cameron, M. Cevik, V. Papaevangelou, M. Addo, K. De Gaetano, J.P. Van Geertruyden, P. Van Damme, N. Van Den Berg, S. Schmiedel, A. Hennigs, S. Jordan, P. Valnaud, C. Mackintosh, I. Johanessen, O. Ten Catte, C. Le Jeunne, R. Cauda*

PS078

11d. Digital health and infection (incl AI, data mining, informatics)

P1945 **A natural language processing system for characterisation of radiology text reports**
Y. Xing (London, United Kingdom), G. Zhao, B. Hernandez Perez, T.M. Rawson, R.C. Wilson, D.K.Y. Ming, P. Georgiou, A.H. Holmes*

P1946 **Automating pre-analytic workflows in the molecular work area: a before and after comparison**
I. Zeaf (Rotkreuz, Switzerland), F. Rodríguez-Frías, A. Rando-Segura, J. Esperalba-Esquerra, I. Iordanoaia, B. Sean*

P1947 **A study of blood cultures and parenteral antibiotic use in patients with suspected sepsis in a specialist children's hospital**
E. Vestesson (London, United Kingdom), J. Hatcher, O. Mcgarrity, N. Sebire, A. Steventon, J. Standing*

P1948 **Inverse probability weighting enables absolute risk estimation in prevalence, nested case-control and case-cohort studies of nosocomial infections**
P. Staus (Freiburg, Germany), M. von Cube, D. Hazard, S. Doerken, K. Ershova, J. Balmford, M. Wolkewitz*

P1949 **Gulf public perspective on antibiotics and antimicrobial resistance: findings from a social media listening study**
N. Abdulrazzaq (Dubai, United Arab Emirates), A.W. Alhasawi, M. Al-Maslamani, N. Habashy, J. Al-Salman, F. Khamis*

P1950 **Exploring the impact of obesity on infection-related outcomes in a large ICU dataset**
W.J. Bolton (London, United Kingdom), T.M. Rawson, R. Wilson, B. Hernandez, D. Antcliffe, P. Georgiou, A. Holmes*

P1951 **Recognising the inherent diversity in patients with infections and the challenge of fairness in AI systems**
W.J. Bolton (London, United Kingdom), T.M. Rawson, R. Wilson, B. Hernandez, D. Antcliffe, P. Georgiou, A. Holmes*

P1952 **Predicting mortality and length of stay outcomes for individual patients receiving antibiotics using a recurrent neural network**
W.J. Bolton (London, United Kingdom), T.M. Rawson, R. Wilson, B. Hernandez, D. Antcliffe, P. Georgiou, A. Holmes*

P1953 **Measurement of core body temperature and blood oxygen saturation using wearable sensors predicts the deterioration of COVID-19**
K. Miyagawa (Kobe, Japan), S. Matsumoto, M. Sasaki, T. Osaki, M. Furukubo, H. Tsuchimoto, K. Suzuki*

PS079

11e. Diversity and equality

P1954 **Ethics and infectious diseases: a global survey**
E. Righi (Verona, Italy), A. Barac, A. Nasim, M. Mirandola, L.M. Canziani, A.A. Grossi, D. Yahav*

PS080

11f. Advocacy and role of patients

P1955 **Patient capacity building for advocacy and research: the case of the first European Patient Group on Antimicrobial Resistance**
L. Cigolot (Brussels, Belgium), N. Milevska-Kostova, B. Mitchener*

P1956 **Can patient litearacy and engagement revert the silent tsunami of antimicrobial resistance? The story of AMR Patient Alliance**
N. Milevska-Kostova (Geneva, Switzerland)*

P1957 **Patient and proxy recall after providing written or oral informed consent to participate in an interventional trial**
A. Huttner (Geneva, Switzerland), E. Von Dach, V. Prendki, S. Harbarth, L. Kaiser*

P1958 **Patient perceptions of antimicrobial resistance: are we getting the right messages across?**
J.C.D. Doukrou (London, United Kingdom), T.D.P. Planche, C.S.F. Suarez Fernandez*

Poster presentation time for **12. COVID-19**
Monday, 25.04.2022 12:00 - 13:00

PS081

12a. Basic science and virology

P1959 **Cysteamine with *in vitro* antiviral activity and immunomodulatory effects has the potential to be a repurposing drug candidate for COVID-19 therapy**
T. Alonzi (Rome, Italy), A. Aiello, L. Petrone, S. Najafi Fard, M. D'eletto, L. Falasca, R. Nardacci, F. Rossin, G. Delogu, C. Castilletti, M.R. Capobianchi, G. Ippolito, M. Piacentini, D. Goletti*

P1960 **Mutational and structural analysis of SARS-CoV-2 envelope proteins among iranian COVID-19 positive patients**
V. Poortahmasebi (Tabriz, Iran, Islamic Republic of), M. Ajel, M. Ahangaroskoui, H. Bannazadeh Baghi, A. Hasani, S.M. Jazayeri, M. Varshochi*

P1961 **Viral respiratory pathogens detected in cases of co-infections with SARS-CoV-2 in Bulgaria**
I. Trifonova (Sofia, Bulgaria), V. Dobrinov, G. Iliana, A. Svetla, S. Voleva, C. Ismailova, L. Grigorova, I. Alexiev, T. Cherveniakova, R. Yordanova, D. Ivanova, V. Yonova, N. Korsun*

P1962 **Impact of disease severity, inflammation markers and treatment on gut microbiome in hospitalised patients with SARS-CoV-2 infection at an Italian tertiary hospital**
E. Righi (Verona, Italy), L. Lambertenghi, A. Gorska, C. Sciammarella, E. Tacconelli*

P1963 **SARS-CoV-2 and the integrated stress response**
W. Christ (Stockholm, Sweden), J. Klingström, J. Tynell*

P1964 **RNA sequencing analysis reveals a novel pathway associated with COVID-19 deterioration**
M. Ikemachi (Kobe, Japan), K. Miyagawa*

PS082

12b. Epidemiology- local, regional, global

P1965 **The global point prevalence survey of antimicrobial consumption and resistance (Global-PPS): 2021 results of antimicrobial prescribing for COVID-19 patients in the Philippines**
M.R. De Los Reyes (Muntinlupa, Philippines), I. Pauwels, A. Versporten, H. Goossens, A.M. Guerrero*

P1966 **The impact of glucometabolic changes and the glycemic gap on 90-day mortality in patients hospitalised with COVID-19**
C.L. Clausen (Copenhagen, Denmark), C.L. Hansen, D. Fauerholt-Jepsen, R. Krogh-Madsen, C. Ritz, O. Kirk, T. Benfield, O. Snorgaard, T.P. Almdal*

P1967 **Individual factors and beliefs determining COVID-19 vaccination willingness**
L. Pauly (Esch-Sur-Alzette, Luxembourg), M. Klee, I. Paccoud, V.P. Satagopam, S. Ghosh, J. Fritz, M. O' Sullivan, B. Rommes, P. Wilmes, R. Krüger, A.K. Leist*

P1968 **Occurrence of SARS-CoV-2 reinfections in the metropolitan area of Barcelona**
S. Alonso (Sant Cugat Del Vallès, Spain), D. Ferrandiz, I. Vendrell, L. Clotet, I. Parron, I. Barrabeig, A. Romero, M.R. Sala, M. Jane*

P1969 **The rise and fall of SARS-CoV-2 subvariant of Beta variant among exchange students in Turku, Finland**
M. Gunell (Turku, Finland), J. Peltoniemi, T. Kallonen, A. Keskitalo, K. Rantakokko-Jalava, T. Vuorinen*

P1970 **Evolution of phenotypes assignment in COVID-19 patients of the first four waves in a single hospital in Spain in comparison with the reference cohort FEN-COVID**
M.G. Caponcello (Seville, Spain), N. Maldonado, D. Gutiérrez-Campos, P. Olivares Navarro, M. Fernández Regaña, E. Reyna-Villasmil, Z. Palacios-Baena, R. Perera-Louvier, J.A. Delgado-Torralbo, L. González-Iglesias, M.A. Rico-Corral, A. Pascual, M. De Toro, B. Gutiérrez-Gutiérrez, J. Rodríguez-Baño*

P1971 **Characterisation of bacterial co-infections of patients with COVID-19 in a military hospital**
J. Lago (Lisbon, Portugal), M. Bailão, A. Pereira*

P1972 **One year into the pandemic: how deadly has COVID-19 been in Puglia, one of the most aged regions in Europe?**
T. Homan (Foggia, Italy), L. Bisceglia, D. Martinelli*

P1973 **Trend of COVID-19 paediatric cases and SARS-CoV-2-related hospital admissions in an Italian tertiary care children hospital**
M. Ciofi Degli Atti (Rome, Italy), C. Rizzo, M. De Santis, L. Ravà, C. D'amore, M. Raponi*

P1974 **The impact of the COVID-19 pandemic on the antibiotic consumption and on the bloodstream infections caused by multidrug-resistant bacteria in a tertiary Greek hospital**
A. Markogiannakis (Athens, Greece), M. Gamaletsou, A. Kakasis, A. Analitis, I. Deliolanis, A. Pantazatou, N. Sipsas*

P1975 **Antimicrobial stewardship and co-infection in COVID-19**
A. Mckeogh (Waterford, Ireland), N. Purcell, K. Casey, C. Fanning, M. Doyle, G. Chan*

P1976 **SARS-CoV-2 incubation period according to vaccination status: preliminary results from a survey during the fifth COVID-19 wave in a tertiary care centre in Spain**
G. Abelenda-Alonso (Barcelona, Spain), A. Rombauts, K. Langohr, M. Colom, J. Cortés, C. Tebe, D. Pak, Y. Shen, J. Carratala, G. Gómez-Melis*

P1977 **Changes over time in phenotype assignment in COVID-19 patient cohorts at a single hospital in Spain**
N. Maldonado (Seville, Spain), E. Reyna-Villasmil, M.G. Caponcello, Z. Palacios-Baena, D. Gutiérrez-Campos, P. Olivares Navarro, M. Fernández Regaña, R. Perera-Louvier, J.A. Delgado-Torralbo, L. González-Iglesias, M.A. Rico Corral, A. Pascual, M. De Toro, B. Gutiérrez-Gutiérrez, J. Rodríguez-Baño*

P1978 **SARS-CoV-2 seroprevalence in Zavidovići municipality of Zenica-Doboj Canton, Federation of Bosnia and Herzegovina, between March and April 2021: a pilot study**
A. Ibrahimagic (Zenica, Bosnia and Herzegovina), S. Huseinagic, S. Sarajlic-Spahic, F. Bašic, S. Sarajlic, J. Durmiševic, N. Hasanica, M. Skomorac, S. Begagic, S. Uzunovic*

P1979 **Prevalence of SARS-CoV-2 antibodies in pet cats (*Felis catus*) in Latvia**
G. Murniece (Jelgava, Latvia), Ž. Šteingolde, K. Kovalenko*

P1980 **Prevalence of COVID-19 in Irish healthcare workers (PRECISE-3): a multi-centre observational study describing the evolving epidemiology of SARS-CoV-2 breakthrough infections in vaccinated healthcare workers in two large tertiary referral hospitals in Ireland**
C. Kenny (Galway, Ireland), J. Mc Grath, E. Walsh, S. Walsh, J. Cuddihy, C. Quinn, P. Rooney, C. Bergin, C. Fleming*

P1981 **SARS-CoV-2 serology responses in healthy blood donors from a Swiss city since the beginning of the pandemic**
D. Albertos Torres (Basel, Switzerland), Y. Gütlin, A. Gensch, A.K. Schlotterbeck, L. Stöger, S. Heller, L. Infanti, K. Leuzinger, H. Hirsch, A. Buser, A. Egli*

P1982 **Microbiological and chemical monitoring of SARS-CoV-2 in untreated wastewater samples from four municipal wastewater treatment plants of Crete and the role of wastewater on forecasting human cases: some initial remarks**
A. Kokkinomagoula (Heraklion, Greece), D. Chochlakis, V. Sandalakis, A. Xylouri, C. Petroulaki, D. Marinopoulou, E. Ouranou, M. Koureas, A. Psaroulaki*

P1983 **COVID-19 prognostic factors in hospitalised patients**
W. Marrakchi (Monastir, Tunisia), R. Bougossa, S. Smaoui, I. Kooli, H. Ben Brahim, A. Toumi, A. Aouam, M. Chakroun*

P1984 **Hospital-acquired bloodstream infections in a COVID-19 unit**
I. Eliadi (Athens, Greece), D. Basoulis, A. Karapanou, I. Deliolanis, A. Markogiannakis, M. Samarkos*

P1985 **Treatments for comorbidities prescribed before the introduction of infection affect the risk of the lethal outcome of COVID-19: data from the international registry ACTIV-SARS-CoV-2**
A. Arutyunov (Moscow, Russian Federation), E. Tarlovskaya, R. Bashkinov, A. Klimova, T. Batluk, A. Ermilova, E. Melnikov, E. Gordeychuk, M. Trubnikova*

P1986 **Dengue and COVID-19 syndemic in the Peruvian Amazonia: a population-based study**
M.J. Pons (Lima, Peru), A. Mayanga, G.M. Ulloa, B. Ymana, F. Alava, C. Álvarez-Antonio, G. Meza-Sánchez, C. Calampa, W. Casanova, C. Carey, H. Rodríguez-Ferrucci, A.C. Morrison, A.M. Quispe*

P1987 **Antibiotic consumptions and bacterial resistance rates in hospitalised COVID-19 patients: a study during the three first surges**
K. Jaffal (Garches, France), F. Bouchand, C. Lawrence, H. Mascitti, M. Matt, D. Annane, A. Dinh*

P1988 **Drifting towards SARS-CoV-2 genomic diversity along pandemic dynamics in Navarra, northern Spain: insights from a retrospective observational study**
M. Fernández-Huerta (Pamplona, Spain), C. Trobajo-Sanmartín, A. Miqueleiz, A. Navascués, M.E. Portillo, J. Castilla, C. Ezpeleta*

P1989 **Comparison of the incubation periods of wild-type and Delta variant of SARS-CoV-2 during different waves of the pandemic in Singapore**
E.P. Conceicao (Singapore, Singapore), Y. Yang, M.E.H. Ong, S.L. Chan, A. Shalvi, J.X.Y. Sim, I. Venkatachalam*

P1990 **Underdiagnosis of SARS-CoV-2 infections among children aged 0-15 years in Israel, January 2020-March 2021: a national seroprevalence study**
V. Indenbaum (Ramat Gan, Israel), Y. Lustig, E. Mendelson, A. Glatman-Freedman, Y. Hershkovitz, L. Keinan-Boker, R. Bassal*

P1991 **Effectiveness of risk assessment and early isolation of staff contacts to COVID-19**
M.K. Aung (Singapore, Singapore), I. Venkatachalam, A. Myat Oo, Y. Yong, C.E. Philip, S. Arora, M.L. Ling*

P1992 **Prevalence of anti-SARS-CoV-2 antibodies among school children and staff in Belgium between December 2020 and October 2021**
M. Callies (Brussels, Belgium), I. Kabouche, J. Merckx, M. Roelants, I. Desombere, E. Duysburgh*

P1993 **Household transmission of SARS-CoV-2 and increased transmissibility of Alpha variant: epidemiological investigation in Kyoto City, Japan, July 2020–May 2021**
Y. Matsumura (Kyoto, Japan), M. Nagao, M. Yamamoto, T. Noguchi, K. Shinohara, S. Yukawa, Y. Tsuchido, I. Hiromi, T. Ikeda*

P1994 **Molecular epidemiology reveals the dominance of SARS-CoV-2 20D clade between June - October 2020 in Serbia: evidence of the importance of local transmission**
A. Banko (Belgrade, Serbia), D. Miljanovic, O. Milicevic, A. Loncar, D. Abazovic, D. Despot*

P1995 **Use of antibiotics and secondary bacterial infections in admitted COVID-19 patients in western Sweden**
J. Gunnar (Gothenburg, Sweden), B. Gawel, O. Bakhouch, M. Leander, S. Telg, E. Joaquim, E. Ida, E. Anna-Klara*

P1996 **Assessment of mortality risk factors among hospitalised COVID-19 patients in Arak, Iran**
A. Ramezani (Tehran, Iran, Islamic Republic of), H. Mazaherpour, M. Soofian, M. Banifazl, E. Farahani, A. Saebbian, M. Etebari, S. Mazaherpour, F. Ashrafian, M. Sadat Larijani, A. Bavand, N.S. Mousavinikoo*

P1997 **Prolonged viral shedding and antibody persistence in patients with COVID-19**
A. Ramezani (Tehran, Iran, Islamic Republic of), F. Fotouhi, M. Salehi-Vaziri, B. Farahmand, E. Mostafavi, M. Banifazl, T. Jalali, M. Sadat Larijani, N.S. Mousavinikoo*

P1998 **SARS-CoV-2 seroprevalence survey among cancer patients and caregivers in cancer hospital**
T. Ungtrakul (Bangkok, Thailand), G. Sornsamdang, K. Soonklang, K. Wittayasak, S. Saeloo, O. Suptawiwat, R. Pulmanausahakul, N. Phattraprayoon, C. Auewarakul, N. Mahanonda*

P1999 **Risk factors for hospitalisation post-COVID-19 infection in females of childbearing age**
J.M. Arnott (Dublin, Ireland), P. Corcoran, J. O'donnell, L. O'connor*

P2000 **Trends in the hospital antimicrobial consumption during the first two waves of the COVID-19 pandemic: an interrupted time-series analysis**
A.N. Rearte (Buenos Aires, Argentina), D. Sanchez Thomas, P. Bonvehi, E. Temporiti, F. Herrera*

P2001 **Bloodstream infections in COVID-19 patients at ICU: characterisation and outcomes**
L. Carvalho (Porto, Portugal), L. Lacerda, M. Ribeiro*

PS083

12c. Clinical features, case management, outcome (incl long-term)

P2002 **Secondary infections in hospitalised COVID-19 patients exposed to immunomodulatory therapy**
P. Crook (London, United Kingdom), C. Logan, A. Mazzella, R. Wake, M. Basarab, M. Cusinato, T. Planche, T. Bicanic*

P2003 **Reduced connectivity of an anti-inflammatory bacterial network and a dysbiosis of the gut microbiome associated with severe COVID-19**
J. Reinold (Essen, Germany), F. Farahpour, A.K. Schörding, C. Fehring, S. Dolff, M. Konik, J. Korth, L. van Baal, D. Hoffmann, J. Buer, O. Witzke, A. Westendorf, J. Kehrmann*

P2004 **Impact of COVID-19 vaccination on disease progression in hospitalised patients**
G. Suleyman (Detroit, United States), R. Fadel, A. Alkhatib, T. Singh, A. Parsons, A. Alsaadi, A. Ghandour, N.L. Sueng, J. Miller, M. Ramesh, G. Alangaden, I. Brar*

P2005 **Sustained humoral response after vaccination with the mRNA-BNT162b2 vaccine in haemodialysis patients: is time for a boost in all patients?**
S. Tonolo (Lecco, Italy), V. La Milia, A. Cavalli, M. Limardo, S. Longhi, F. Luzzaro*

P2006 **Clinical features and outcomes of acute kidney injury in severe to critical COVID-19 patients**
M. Boussarsar (Sousse, Tunisia), N. Bouguezzi, I. Ben Saida, M. Zghidi, R. Toumi, I. Maatouk, K. Meddeb*

P2007 **Comparison of clinical characteristics of vaccinated versus unvaccinated hospitalised patients with COVID-19 in a tertiary care hospital in Spain**
P. Runza Buznego (Santander, Spain), I. Cabezón Estévanez, C. Armiñanzas Castillo, F. Arnaiz De Las Revillas Almajano, M. Gutierrez Cuadra, M. Fernández Sampedro, J. Calvo Montes, D.J. Ferrer Pargada, J.M. Cifrian Martínez, C. Fariñas Álvarez*

P2008 **A multi-state model to analyse hospitalised COVID-19 patients during the first three waves in the Barcelona metropolitan area**
A. Rombauts (Barcelona, Spain), C. Tebé, X. Piulachs, M. Besalú, G. Abelenda-Alonso, I. Oriol, A.F. Simonetti, E. Izquierdo-Tugas, J. Carratalà, K. Langhor, G. Gómez-Melis*

P2009 **Clinical features of patients with raised cardiac biomarkers in COVID-19: a retrospective study from Karachi, Pakistan**
B. Syed (Karachi, Pakistan), I. Ahmed*

P2010 **In-hospital outcomes of hospitalised healthcare workers infected with SARS-CoV-2 in the first wave of the COVID-19 pandemic in Quebec, Canada**
C. Greenaway (Montreal, Canada), L. Harrison*, I. Darwish*, A.M. Passos-Castilho, A.C. Labbé, S. Barkati, M.L. Luong, L. Kong, M.A. Tutt-Guérette, J. Kierans, C. Rousseau, A. Benedetti, L. Azoulay*

P2011 **Differences in patient characteristics and outcomes during pandemic waves and according to vaccination status**
A. Rombauts (Barcelona, Spain), G. Abelenda-Alonso, N. Pallarès, M. Colom, A. Pérez-Picans, B. Cobo, L. Serrano, G. Molist, G. Gómez-Melis, J. Carratalà, J. Cortés*

P2012 **Predictors of mortality in a large single-centre cohort of critically ill ICU patients with COVID-19**
E. Mazzotta (Pescara, Italy), A. Frattari, S. Ianniruberto, S. Coladonato, G. Rapacchiale, E. Polilli, G. Parruti*

P2013 **Efficacy of remdesivir in reducing mortality in people hospitalised for SARS-CoV-2 infection: a real-life experience**
A. De Vito (Sassari, Italy), M. Poliseno, B. Zauli, A. Colpani, M. Puci, T. Santantonio, M.C. Meloni, C. Fanelli, L. Saderi, S. Babudieri, G. Sotgiu, S. Lo Caputo, G. Madeddu*

P2014 **Plasma miRNA profile at COVID-19 onset predicts severity status and mortality**
D. Valle-Millares (Majadahonda, Spain), A. Fernández-Pato, A. Virseda-Berdices, S. Resino, P. Ryan, Ó. Martínez-González, F. Peréz-García, M. Martin-Vicente, Ó. Brochado-Kith, R. Blancas, A. Martínez, F. Camiña-Ceballos, S. Bartolome-Sánchez, E.J. Vidal-Alcántara, D. Alonso, N. Blanca-López, I.R. Martinez-Acitores, L. Martin-Pedraza, M.Á. Jiménez-Sousa, A. Fernández-Rodríguez*

P2015 **Chest CT scan pictures can change during COVID-19 pandemic: case-control study on clinical and radiological features during Delta variant peak**
G. Viceconte (Naples, Italy), A.R. Buonomo, B. Pinchera, N. Schiano Moriello, A. Ponsiglione, L. Camera, R. Villari, I. Gentile*

P2016 **Clinical features, ventilatory management and outcomes of COVID-19 related ARDS in a Tunisian MICU**
R. Toumi (Sousse, Tunisia), K. Meddeb, N. Bouguezzi, H. Zouari, I. Maatouk, D. Hamdi, I. Ben Saida, M. Boussarsar*

P2017 **Predictors and outcomes of respiratory bacterial co-infections in patients with COVID-19 admitted to the hospital: an observational prospective study**
M. Falcone (Pisa, Italy), G. Tiseo, L.R. Suardi, L. Giusti, A. Forniti, C. Caroselli, V. Galfo, A. Leonildi, G. Moscato, F. Menichetti*

P2018 **Sailing through the waves: how our approach to care has changed from the beginning of the pandemic to nowadays**
B. Zauli (Sassari, Italy), A. De Vito, A. Colpani, M.C. Meloni, M. Fois, S. Bacciu, C. Fanelli, E. Princic, I. Maida, A.A. Muredda, C.M. Panu Napodano, F. Vito, A.G. Fois, E. Masotto, G. Madeddu, S. Babudieri*

P2019 **Self-reported symptoms associated with the development of SARS-CoV-2 antibodies among healthcare workers in Dutch hospitals**
C. Recanatini (Utrecht, Netherlands), C. Geurtsvankessel, S. Pas, M. Maas, R. Van Mansfeld, A. Van Oudheusden, M. Van Rijen, E. Schippers, A. Tami, K.E. Veldkamp, H. Visser, A. Voss, M. Wegdam-Blans, H. Wertheim, P. Wever, M. Koopmans, J. Kluytmans, M. Kluytmans-Van Den Bergh*

P2020 **Observational study of superinfections in a cohort of COVID-19 patients during inpatient treatment at a university hospital**
A.K. Lösslein (Freiburg, Germany), P. Staus, C. Beisert Carneiro, A.K. Wutzke, M. Wolkewitz, G. Häcker*

P2021 **Infections with the SARS-CoV-2 Delta variant in pregnancy: impact on illness severity, adverse events, and clinical outcomes**
E. Zappulo (Naples, Italy), A. Gallicchio, N. Esposito, I. Di Filippo, M. Foggia, M. Nobile, N. Schiano Moriello, I. Zotta, G. Romano, A.R. Buonomo, I. Gentile*

P2022 **The impact of serum albumin levels on hospitalised COVID-19 mortality**
V. Zerbato (Trieste, Italy), R. Luzzati, M. De Luca, A. Di Masi, B. Marini, R. Ippodrino, S. Di Bella, G. Sanson*

P2023 **Clinical characteristics of COVID-19 patients with breakthrough infection: MultiIPV study, a preliminary report**
A. Lombardi (Milan, Italy), S. Villa, M. Tettamanti, G. Renisi, G. Viero, C. Azzarà, N. Montano, M. Mantero, A. Muscatello, A. Nobili, A. Gori, A. Bandera*

P2024 **Evaluation of antiviral drug-sparing treatment for patients who received steroid therapy to treat COVID-19**
K. Yamamoto (Kawagoe, Japan), D. Ono, Y. Nishida, K. Mimura, H. Ohno, H. Oka*

P2025 **Laboratory test results and intensive care unit admission in patients with COVID-19 infection**
E. Reyna-Villasmil (Seville, Spain), Z. Palacios-Baena, M.G. Caponcello, N. Maldonado, D. Gutiérrez-Campos, P. Olivares Navarro, M. Fernandéz Regaña, R. Perera-Louvier, J.A. Delgado-Torralbo, L. González-Iglesias, M.A. Rico Corral, A. Pascual, M. De Toro, B. Gutiérrez-Gutiérrez, J. Rodríguez-Baño*

P2026 **Long-term humoral immunity of COVID-19 recovered and BNT162b2 vaccinated individuals: a prospective comparative study**
C. Cohen (Ramat Gan, Israel), Y. Lustig, E. Levin, V. Indenbaum, K. Asraf, C. Rubin, Y. Kreiss, G.I.L.I. Regev-Yochay*

P2027 **Neurocognitive deficits in a patient population assessed in a post-COVID care clinic**
E. Kakalou (Athens, Greece), O. Koltsida, M. Beis, V. Sakka, K.G. Kyriakoulis, A. Gravvani, A. Dapergola, C. Theochari, G. Kokkoris, I. Krallis, D. Bonafa, P. Nastatos, V. Doussopoulos, P. Chardouvelis, V. Rapti, K. Leontis, A. Rapti, K.N. Syrigos, G. Poulakou*

P2028 **Clinical phenotypes in patients admitted to hospital with COVID-19 and their association with anti-coagulant and corticoid treatment in mortality**
M.G. Caponcello (Seville, Spain), N. Maldonado, D. Gutiérrez-Campos, P. Olivares Navarro, M. Fernández Regaña, E. Reyna-Villasmil, Z. Palacios-Baena, R. Perera-Louvier, J.A. Delgado-Torralbo, L. González-Iglesias, M.A. Rico-Corral, A. Pascual, M. De Toro, B. Gutiérrez-Gutiérrez, J. Rodríguez-Baño*

P2029 **Bloodstream infections among COVID-19 patients hospitalised in non-critical care wards and their impact on mortality**
E. Giannitsioti (Piraeus, Greece), C. Louka, V. Mamali, E. Kousouli, V. Papadouli, P. Mavroudis, G. Kranidiotis, G. Linardaki, I. Speggos, S. Gerakari, G. Chrysos, K. Digalaki, O. Zarkotou*

P2030 **Preliminary data on the clinical, biological and radiological characteristics of Algerian patients hospitalised for COVID-19**
A. Maatouk (Sousse, Tunisia), S. Chelly, O. Ezzi, A. Ammar, A. Ketfi, O. Chabati, S. Chemali, M. Gharnaout, R. Touahri, K. Djenouhat, F. Selatni, H. Ben Saad, M. Njah, M. Mahjoub*

P2031 **Relative telomere length impact on mortality and survival of COVID-19**
A. Virseda Berdices (Majadahonda, Spain), L.M.A.J. Concostrina Martínez, P. Ryan, O. Martínez González, P. Moreira Escriche, R. Blancas, F. Pérez García, C. De Juan, M. Martín Vicente, O. Brochado Kith, N. Blanca López, C. Vilches Medkouri, S. Resino, M.Á. Jiménez Sousa, A. Fernández Rodríguez*

P2032 **Metabolic profiling at COVID-19 onset shows disease severity and sex-specific dysregulation**
O. Brochado-Kith (Majadahonda, Spain), F. Camiña-Ceballos, S. Resino, A. Virseda-Berdices, P. Ryan, Ó. Martinez-Gónzalez, F. Pérez-García, M. Martín-Vicente, R. Blancas Gómez-Casero, S. Bartolomé, E.J. Vidal-Alcántara, O. Alboniga-Díez, J. Cuadros-González, N. Blanca, I. Martínez, I. Ramirez Martinez-Acitores, C. Barbas, A. Fernández-Rodríguez, M.Á. Jiménez-Sousa*

P2033 **Bloodstream infections in critically ill patients through successive stages of COVID-19 pandemic**
M. Torrecillas (Barcelona, Spain), V.D. Gumucio, A. Padullés, F. Tubau, D. Marco, E. Shaw, K. Maisterra, I. Grau, M.M. Petito, D. Berbel, M. Puig-Asensio, X.L. Pérez, M.Á. Domínguez, J. Sabater, C. Ardanuy, J. Càmara*

P2034 **Effectiveness of monoclonal antibodies to SARS-CoV-2: an observational study based on real-world data in a tertiary care university hospital in Italy**
D. Dalla Gasperina (Varese, Italy), D. Pistritto, E. Galfrascoli, T.M. Attardo, C. Tinelli, T. Patti, D. Galli, S. Speroni, E. Epis, A. Turchetti, P. Pagani, A. Baj, F. Maggi, R. Cavi, F. Dentali*

P2035 **Risk factors for COVID-19 mortality in a low-resource setting in Peru**
A. Rebaza (Ica, Peru), S. Cuadros, J. Carbajal, M. Lopez, J. Uceda, A. Yarasca, V. Aguirre, P. Estacio, H. Mauro, J. Pinto, L. Saravia*

P2036 **Development of new conditions in the post-COVID period based on the six-month follow-up data from the international register active SARS-CoV-2**
A. Arutyunov (Moscow, Russian Federation), E. Tarlovskaya, R. Bashkinov, A. Klimova, T. Batluk, A. Ermilova, E. Melnikov, E. Gordeychuk, M. Trubnikova*

P2037 **Risk factors associated with COVID-19 associated aspergillosis: a case-control study**
N. Nasir (Karachi, Pakistan), J. Farooqi, S. Zubair, M. Ayub, S. Khan, W. Hassaan, S.F. Mahmood, K. Jabeen*

P2038 **Ventilator-associated pneumonia among critically ill COVID-19 patients: epidemiology, associated factors and impact on day-60 mortality; an observational study from the Outcomerea Network**
J.F. Timsit (Paris, France), P.H. Wicky, C. Dupuis, E. De Montmollin, D. Goldgran-Toledano, J. Reignier, C. Schwebel, M. Neuville, S. Shidasp, S. Ruckly, B. Mourvillier, U. Ursino, V. Laurent, C. Alberti, M. Gainnier, N. Buetti*

P2039 **Evaluation of the clinical impact of monoclonal antibodies in patients with mild to moderate COVID-19 at high risk of progression to severe disease: real-life data in a single clinical centre of southern Italy**
A.V. Codella (Benevento, Italy), C. Carriero, A. Glielmo, G. D'alessio, L. Forgione, A. Salomone Megna*

P2040 **Impact of hospital-acquired bloodstream infections on mortality and length of stay in COVID-19 patients: a nested matched cohort study**
A. Cona (Milan, Italy), B. Varisco, A. Tavelli, F. Bai, R. Castoldi, G. Giannetta, L. Albertini, C. Biassoni, L. Battaglioli, O. Viganò, L. Gazzola, T. Bini, G.C. Marchetti, A. D'Arminio Monforte*

P2041 **Factors associated with abnormal lung function in patients with post-COVID-19 syndrome and previous hospitalisation for SARS-CoV-2 pneumonia**
E. Giannitsioti (Piraeus, Greece), L. Velentza, P. Mavroudis, L. Kolilekas, A. Stamati, P. Dermatis, I. Daniil, X. Sidiropoulou, O. Zarkotou, K. Themeli-Digalaki, S. Gerakari*

P2042 **COVID-19 in solid organ transplant recipients**
G. Cinar (Ankara, Turkey), E. Gulten, I. Akdemir Kalkan, E.M. Saricaoglu, O. Kirimker, R. Eren Sadioglu, S. Eyupoglu, S. Sengul, K. Keven, A. Tuzuner, D. Balci, K.O. Memikoglu, A. Azap*

P2043 **Kidney dysfunction and COVID-19 in Sibiu, Romania: a hospital-based retrospective cohort study**
V. Birlutiu (Sibiu, Romania), E.S. Dobritoiu, C.D. Lupu, A.M. Ghibu*

P2044 **Continuous positive airway pressure in SARS-CoV-2 associated acute respiratory distress syndrome: timing to maximise results**
A. Salvati (Naples, Italy), R. Nevola, A. Russo, S. Scuotto, S. Imbriani, L. Rinaldi, N. Coppola, L.E. Adinolfi*

P2045 **Relationship of admission routine inflammatory biomarkers and COVID-19 severity**
C. Kiffer (São Paulo, Brazil), W. Dunke De Lima, R.C. Inácio, R.S. Grinbaum*

P2046 **Pre-existing chronic kidney disease (CKD) is associated with an increase in the duration of hospitalisation in COVID-19 patients but not with increased mortality: results of a case-control study**
M.G. Palamone (Naples, Italy), F. Calò, A. Russo, P. Maggi, V. Sangiovanni, F.G. Numis, I. Gentile, A. Masullo, C. Rescigno, G. Calabria, A. Salomone Megna, M. Gambardella, E. Manzillo, G. Russo, V. Esposito, N. Coppola*

P2047 **Clearance of sub-genomic RNA in hospitalised COVID-19 patients treated with remdesivir with or without steroids**
R. A. (Barcelona, Spain), M.Á. Marcos, G. Cuesta, M. Santos, D. Soria, M. Mosquera, Á. Soriano*

P2048 **Early administration of remdesivir is associated with lower risk of ICU Admission in hospitalised patients with COVID-19**
R. Alonso (Barcelona, Spain), J. Berenguer, M. Ramírez, M. Masiá, R. Martínez, R. Montejano, M. Salavert, E. Bernal, F. Fanjul, J. Flores, V. Rico, I. Gutiérrez, Á. Soriano*

P2049 **COVID-19 in patients ≥ 80 years old during the peaks of the first three pandemic waves at a Spanish tertiary hospital**
C. Cilloniz (Barcelona, Spain), F. Meira, G. Dueñas, J. Gimeno-Martin, M. Chumbita, P. Puerta-Alcalde, N. Garcia-Pouton, A. Gabarrus, V. Rico, A. Torres, C. Garcia-Vidal, A. Soriano*

P2050 **Epidemiological and clinical characteristics of patients hospitalised for COVID-19 in Campania: results of a multi-centre study**
V. Pattapola (Naples, Italy), M. Pisaturo, V. Sangiovanni, F.G. Numis, I. Gentile, A. Masullo, C. Rescigno, P. Maggi, G. Calabria, A.S. Megna, M. Gambardella, E. Manzillo, G. Russo, V. Esposito, R. Parrella, R. Punzi, N. Coppola*

P2051 **Clinical phenotypes of patients with COVID-19 in whom remdesivir decreased mortality: non-supervised identification of clusters by artificial intelligence**
F. Meira (Barcelona, Spain), C. Teijón-Lumbreras, G. Dueñas, L. Serra, P. Puerta-Alcalde, M. Chumbita, P. Monzó, C. Lopera, F. Aiello, I. Grafia, G. Cuesta-Chasco, J. Mensa, J.A. Martínez, M.A. Marcos, A. Soriano, C. Garcia-Vidal*

P2052 **Genetic analysis of the SARS-CoV-2 RNA-dependent RNA polymerase in severe COVID-19 patients after remdesivir therapy**
M. Santos-Bravo (Barcelona, Spain), D. Soria-Montes, R. Alonso-Navarro, J.C. Hurtado, P. Puerta-Alcalde, G. Cuesta-Chasco, A. Vergara, M.J. Martínez, M.M. Mosquera, S. Sánchez-Palomino, A. Soriano, M.Á. Marcos*

P2053 **A retrospective cohort study on the effect of hemoperfusion added to remdesivir and dexamethasone on the clinical outcomes for severe to critically ill COVID-19 confirmed patients admitted in a tertiary private hospital in Metro Manila Philippines**
H.A.G. Cu (San Juan, Philippines), S. Co, R. Cobankiat, C. Mangahas*

P2054 **Laboratory markers of COVID-19 severity (LABMARCS): Bristol (UK) cohort**
M. Albur (Bristol, United Kingdom), B. Sullivan, E. Barker, L. Macgregor, M. Thomas, S. Gurney, C. Mcwilliams, C. Hyams, A. Whiteway, P. Williams, A. Dowsey*

P2055 **Out of the rubble, the phoenix rises: use of COVID19-PCR+ organs for transplantation**
E. Eichenberger (Durham, United States), L. Mcelroy, A. Rege, C. Wolfe*

P2056 **Does immunodeficiency alter the clinical course of hospitalised COVID-19 patients? Management experiences and outcomes in a prospectively evaluated large cohort at a tertiary care centre in Germany**
P. Mathé (Freiburg, Germany), D. Hazard, G. Peyerl-Hoffmann, D. Hornuss, D. Wagner, W. Kern, P. Biever, M. Wolkewitz, S. Rieg*

P2057 **IL-6 and death due to COVID-19: a real-world analysis**
B. Turner (Cambridge, United States), J. Winer-Jones, A. Maresca*

P2058 **Prolonged viral replication in patients with haematologic malignancies hospitalised with COVID-19**
P. Puerta-Alcalde (Barcelona, Spain), A. Mateu-Subirà, G. Cuesta-Chasco, F. Meira, C. Lopera, P. Monzó, M. Santos-Bravo, G. Dueñas, M. Chumbita, N. Garcia-Pouton, A. Gaya, M. Bodro, S. Herrera, M. Mosquera, F. Fernández-Avilés, J.A. Martinez, J. Mensa, E. Giné, M.A. Marcos, A. Soriano, C. Garcia-Vidal*

P2059 **Demographic and clinical overview of hospitalised COVID-19 patients during the first 17 months of the pandemic in Poland**
D. Zarebska-Michaluk (Kielce, Poland), R. Flisiak, P. Rzymski, M. Rogalska, M. Rorat, P. Czupryna, B. Lorenc, P. Ciechanowski, D. Kozielewicz, A. Piekarska, M. Pokorska-Spiewak, K. Sikorska, M. Tudrujek-Zdunek, B. Bolewska, G. Angielski, J. Kowalska, R. Podlasin, W. Mazur, B. Grzesik-Oczko, I. Zaleska, A. Szymczak, P. Franczak-Chmura, M. Sobolewska-Pilarczyk, K. Klos, M. Figlerowicz, P. Leszczynski, I. Kucharek, H. Grabowski*

P2060 **The utility of casirivimab/imdevimab therapy in the management of persistent COVID-19 infection**
D. Hettle (Bristol, United Kingdom), S. Hutchings, P. Muir, E. Moran*

P2061 **B.1.617.2 SARS-CoV-2 (Delta) variant is associated with increased risk of hospitalisation compared with B.1.1.7 SARS-CoV-2 (Alpha) variant**
E. Freire Rodrigues (Lisbon, Portugal), J. Moreno, P. Pinto Leite, B. Nunes, J.P. Gomes, C. Sousa, J.P. Almeida, L. Menezes, D. Vaz, A. Leite, A. Peralta-Santos*

P2062 **Dynamic NLR and PLR in predicting COVID-19 severity**
E. Asperges (Pavia, Italy), G. Albi, V. Zuccaro, M. Sambo, T.C. Pieri, M. Calia, L. Maiocchi, F. Melazzini, P. Sacchi, R. Bruno*

P2063 **Outcome of COVID-19 in renal failure and tolerance of remdesivir: experience from a large renal and dialysis centre in Pakistan**
Z. Babar (Karachi, Pakistan), S. Dodani, A. Nasim, S. Kumar*

P2064 **Risk factors for ICU admission and death in hospitalised patients with COVID-19**
A. Liapikou (Athens, Greece), E. Dioneli, A. Kote, A. Sotiropoulou, P. Peristeris, N. Tselonis, I. Avgerinou, I. Dimitroulis*

P2065 **Changes in urinary tract infections in hospitalised patients during the SARS-CoV-2 pandemic**
B. Díaz-Pollán (Madrid, Spain), G.V. Guedez, P.M. García Clemente, M. Jiménez González, S. García Bujalance, R. Gómez-Gil Mirá*

P2066 **Post-COVID-19 syndrome in kidney transplant recipients after hospital discharge for SARS-CoV-2 infection**
L.J. Cabral Miranda (São Paulo, Brazil), G. Serra Rodrigues Costa, O. Reusing Jr., E. David Neto, L. Camera Pierrotti*

P2067 **Evaluation of aspirin use among COVID-19 critically ill patients: a multi-centre propensity score matched study**
R. Alotaibi (Riyadh, Saudi Arabia), G.B. Korayem, A. Alawad, K. Al Sulaiman, A. Alharthi, A.F. Altebainawi, R.S. Alenezi, A. Hafidh, K. Bin Saleh, O. Aljuhani, R. Kensara, S. Al Harbi, J. Gramish, H. Al Enazi, A. Alshehri, O. Alhuthaili, R. Vishwakarma, T. Alsulaiman, R. Alqahtani, S. Almazrou, S. Hussain*

P2068 **In-hospital mortality according to QuantiFERON® test result in a cohort of COVID-19 patients in Italy**
M. Piccica (Florence, Italy), F. Lagi, A. Mantella, M.M. D'elios, C. Della Bella, J. Mencarini, F. Bartalesi, M. Tilli, S. Bresci, M. Spinicci, B. Dannaoui, L. Poggesi, C. Nozzoli, A. Morettini, G.M. Rossolini, L. Zammarchi, A. Bartoloni*

P2070 **Prevalence of empiric antibacterial therapy, community-acquired bacterial superinfection and antibiotic-associated adverse reactions among patients with COVID-19 pneumonia admitted in Makati Medical Center from March 2020 to March 2021**
W.A. Galang-De Leon (Makati, Philippines), J.A. Buensalido*

P2071 **Clinical impact of SARS-CoV-2 infection compared to other respiratory viruses in onco-haematological patients**
D. Torres (Buenos Aires, Argentina), M. Leone, F. Bues, R. Rojas, A.N. Rearte, S. Zerboni, P. Bonvehi, E. Temporiti, M. Querci, C. Videla, A. Martinez, F. Herrera*

P2072 **Predictive factors associated with death among previously vaccinated COVID-19 patients**
N. Haddad (Sousse, Tunisia), S. Ben Fredj, R. Ghammem, N. Zammit, M. Kachroudi, N. Haddad Amamou, S. Rbaii, A. Ghrissi, E. Lasmar, J. Maatoug, H. Ghannem*

P2073 **Mortality rate of COVID-19 patients hospitalised during three different epidemic periods in Milan, Italy: a prospective observational study**
A. Giacomelli (Milan, Italy), A.L. Ridolfo, L. Pezzati, C. Bonazzetti, G. Carrozzo, M. Beltrami, B. Caloni, S. Lazzarin, M. Colombo, G. Pozza, A. Poloni, S. Pagano, S. Caronni, F. D'aloia, M. Passerini, M. Piscaglia, F. Borgonovo, L. Oreni, M. Galli, G. Rizzardini, S. Antinori*

P2074 **Systemic consequences of COVID-19 infection in patients requiring mechanical ventilation: a 12-month prospective study**
M. Bongiovanni (Garbagnate Milanese, Italy), F. Bini, B.D. Bodini, E. Corbetta, U. Zanini*

P2075 **Is COVID-19 a risk factor for *Enterococcus* sp. bacteraemia?**
B. González-Blanco (Madrid, Spain), F. Fontenla, L. Sangorrin, I. Muñoz, M.A. Orellana*

P2076 **Exposure to valproic acid is associated with less pulmonary infiltrates and improvements in diverse clinical outcomes and laboratory parameters in patients hospitalised with COVID-19**
V. Asensi (Oviedo, Spain), J. Collazos, P. Domingo, N. Fernández-Araujo, E. Asensi-Díaz, H. Vilchez-Rueda, A. Lalueza, E. Roy-Vallejo, R. Blanes, M. Raya-Cruz, J. Sanz-Cánovas, A. Artero, J.M. Ramos-Rincón, C. Dueñas-Gutiérrez, J.L. Lamas-Ferreiro*

P2077 **Statins safety and impact on the clinical outcomes in COVID-19 critically ill patients: a multi-centre, cohort study**
R. Alotaibi (Riyadh, Saudi Arabia), G.B. Korayem, A. Alawad, K. Al Sulaiman, O. Aljuhani, A.F. Altebainawi, S. Al Harbi, A. Al Shaya, H.A. Badreldin, R. Kensara, A. Al Harthi, J. Alghamdi, A. Kharbosh, H. Al Muqati, A. Alhuwahmel, M. Almusallam, I. Al Sulaihim, B. Alanazi, B.S. Al-Dosari, R. Vishwakarma, A.S. Alsaeedi, G. Al Ghamdi, H.M. Al-Dorzi*

P2078 **The outcome of patients with severe COVID-19 treated with tocilizumab: a retrospective cohort study**
J.M. Bhatti (Karachi, Pakistan), A.R. Syed, N.P. Gazder, K. Shamim, F. Sameeullah, I.B. Abro*

P2079 **Digital droplet PCR to detect SARS-CoV-2 viral load in paediatric patients and correlation**
L. Oberding (Calgary, Canada), S. Freedman, J. Xie, K. Kelly, D. Pillai*

P2080 **Risk factors for pulmonary thromboembolism in COVID-19**
D. Lendak (Novi Sad, Serbia), I. Zrnic, M. Drljaca,*

P2081 **Progression to severe COVID-19 among a cohort of patients followed by telehealth**
A. Mykietiuk (La Plata, Argentina), J.P. Balbuena, M.F. Alzogaray, A. Romandetta, B. Cooke, L. Galeano, O. Sued, M. Di Tommaso, R. Laurini, P. Doubik, M. Cobos, C.B. Di Paula, D. Schreiner, E. Crocci, E. Garcia, J. Vico, F. Mazzini, B. Alcorta, G. Chaparro*

P2069 **Varicella zoster virus reactivation after SARS-CoV-2 infection or vaccination: a systematic review**
R. Martínez-Reviejo (Madrid, Spain), A. Tammaro, G.A.R. Adebanjo, S. Tejada, C. Chello, F.R. Parisella, J. Rello*

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12d. Diagnostics (incl molecular, genomic, rapid tests)

P2082 **Discriminatory weight of SNPs in spike SARS-CoV-2 variants: a technically rapid, unambiguous and bioinformatically validated laboratory approach**
D. Bivona (Catania, Italy), N. Musso, P. Bonacci, D. Bongiorno, S. Stracquadanio, M. Massimino, C. Palermo, G. Scalia, S. Stefani*

P2083 **Real-time PCR for SARS-CoV-2 antigen detection from saliva in comparison with nasopharyngeal samples in Paraíba, Brazil**
Á. Alves (João Pessoa, Brazil), A.B.R. Santos, S.M.F. Ramos Dos Santos Medeiros, E.S.S. Sousa, V.P. Perez, M.L.E. Leal, E.H. Campana*

P2084 **SARS-CoV-2 antigen self-testing is inferior to professional testing**
T. Lodder (Gouda, Netherlands), F. Dusseldorp, C. Stals, M. Jillissen, J.J. Van Den Brand, V. Hira*

P2085 **Combining sample pooling and rapid tests to optimise SARS-CoV-2 testing capacity based on local prevalence**
M. Gonzalez Sanz (London, United Kingdom), S. Easdon, K. Shaw, T. Sullivan, A.P. Claxton, N. Tirumala, K. Stade, M.A. Uso, N. Marshall*

P2086 **Saliva: a suitable sample for the detection of SARS-CoV-2 by qRT-PCR**
C. Henriques (Lisbon, Portugal), B. Silva, S. Silva, N. Verdasca, A. Melo, I. Costa, P. Conde, C. Palos, R. Guiomar*

P2087 **Can SARS-CoV-2 rapid antigen tests predict SARS-CoV-2 infectivity? Kinetics of viral excretion from a prospective cohort of patients followed up to 20 days after symptom-onset**
S. Silva (Vila Nova De Gaia, Portugal), C. Nunes-Silva, F. Oliveira E Silva, A. Martins, J.P. Caldas, M. Neto, S. Rebelo, A.C. Magalhães, T. Guimarães, L. Pereira, M. Severo, M. Tavares*

P2088 **Evaluation of a rapid method for nucleic acid detection of SARS-CoV-2 virus**
J.C. Hurtado Negreiros (Barcelona, Spain), M. Fernández Pittol, M. Ali, J. Vila Estapé*

P2089 **Radiologic features of sarcopenia as prognostic factors for survival in COVID-19**
K. Akinosoglou (Patras, Greece), G. Schinas, V. Dimakopoulou, K. Dionysopoulos, G. Fezoulidi, K. Vassiou, M. Vlychou, N. Gatselis, M. Marangos, C. Kalogeropoulou*

P2090 **Clinical validation of a freeze-dried multiplex one-step RT-qPCR assay for discrimination of variants of SARS-CoV-2, included Delta variant**
B.N. Mombelli (Brescia, Italy), M. Savoldi Boles, D. Micheletti*

P2091 **Validation of a MALDI-TOF MS method for SARS-CoV-2 detection on naso-oropharyngeal swabs**
A. Martins (Porto Alegre, Brazil), O. Lovison, F. Volpatto, R. Žmuidinaite, J. Lacey, A. Gardiner, C. Jardine, R. Iles, J. Iles, A. Barth*

P2092 **Comparison of Midnight and ARTIC V3 primer sets for use in library preparations for SARS-CoV-2 genome sequencing**
R.L. Marvig (Copenhagen, Denmark), M.S. Pedersen, A.Y. Schmidt*

P2093 **Rapid immunochromatographic point-of-care diagnostic devices and ELISA for detection of SARS-CoV-2 antigens in blood**
S. Oueslati (Le Kremlin-Bicêtre, France), M. Manai Bouokazi, I. Ramdhani, L. Escaut, T. Pham, S. Ouzani, N. Anguel, S. Bulifon, C. Vauloup-Fellous, A. Coilly, L. Legros, M. Guichardon, N. Fortineau, L. Dortet, A.M. Roque-Afonso, T. Naas*

P2094 **Development and validation of a qPCR kit for the detection of genomic and sub-genomic RNAs of SARS-CoV-2**
J. Antonello (Padua, Italy), M. Simonato, M. Deiana, C. Savio, A. Mori, N. Paccagnella, L. De Santi, E. Pomari, D. Paladin*

P2095 **Sensitivity comparision of one in-house and three commercial diagnostic systems based on nucleic acid amplification tests of SARS-CoV-2**
S.L. Larsen (Odense, Denmark), S.V. Høgh, K.G. Thomsen, T.G. Jensen, M. Olsen, M.N. Skov*

P2096 **Development of extraction-free and rapid real-time RT-PCR assay for faster and cost-effective diagnostics of SARS-CoV-2**
M. Ubale (Mumbai, India), S. Singh, D. Gohil, M. Sasane, S. Purageri, S. Thakur, K. Jangid, S. Hajra, K. Khadke, R. Warke*

P2097 **Midnight: a faster and cheaper alternative to ARTIC for SARS-CoV-2 sequencing**
B. Constantinides (Oxford, United Kingdom), H. Webster, L. Dunn, S. Oakley, L. Barrett, J. Swann, N. Sanderson, P.W. Fowler, G. Ma, G. Rodger, K. Jeffery, T.E.A. Peto, N. Stoesser, T. Street, D.W. Crook*

P2098 **Evaluation of commercial anti-SARS-CoV-2 neutralising antibody assays in seropositive healthcare workers**
K. Saker (Lyon, France), B. Pozzetto, V. Escuret, V. Pitiot, A. Massardier-Pilonchéry, B. Mokdad, C. Langlois-Jacques, M. Rabilloud, D. Alfaite, N. Guibert, J.B. Fassier, A. Bal, S. Trouillet-Assant, M.A. Trabaud*

P2099 **Low sensitivity of an antigen test (a commercial COVID-19 Ag Rapid Test) to detect asymptomatic infections in health personnel at the National Institute of Respiratory Diseases, Mexico City**
E. Becerril Vargas (Mexico City, Mexico), M.A. Mujica, D.A. Camacho, M.D.C. García Colín, E. Martinez Bravo, A. Ortiz Martinez, J.A. Martinez Orozco*

P2100 **Detection of bacterial co- and superinfections and prediction of fatal outcome in COVID-19 patients presenting to the emergency department using a 29 mRNA host response classifier**
O. Liesenfeld (Burlingame, United States), N.R. Mohan, L. Sun, S. Yang*

P2101 **Comparison of SARS-CoV-2 nucleocapsid antigen levels and in-house PCR Ct values in nasopharyngeal swab samples**
J. Nuttens (Turku, Finland), P. Antikainen, M. Gunell, A. Sanden, T. Vuorinen, J. Koskinen*

P2102 **Comparison of two SARS-CoV-2 serological assays**
P. Pitti (Liège, Belgium), D. Desmecht, J. Descy, F. Lesuisse, N. Frusch, P. Dufour, G. Darcis, F. Frippiat, C. Meex, M.P. Hayette*

P2103 **Re-sequencing SARS-CoV-2 samples with missing data can improve quality of consensus sequences**
T.V. Sydenham (Odense, Denmark), K. Steinke, S.V. Hoegh, S.L. Larsen, K.G. Thomsen, M. Larsen, T.G. Jensen, M.N. Skov*

P2104 **Extraction-free alternative method for a commercial SARS-CoV-2 multiplex real-time RT-PCR test**
A. Dedeic-Ljubovic (Sarajevo, Bosnia and Herzegovina), I. Salimovic-Bešic, E. Zahirovic*

P2105 **What about a specific commercial SARS-CoV-2 assay kit 2.0 as a new tool in the diagnosis of COVID-19?**
L. Deroche (Poitiers, France), M. Prat, M. Garcia, L. Nicolas*

P2106 **Performance evaluation of a new diagnostic test for the direct SARS-CoV-2 RNA detection using commercial portable system**
M. Sinigaglia (Trieste, Italy), A. Marzucco, M. Pacetti, M. Morotti, M.F. Pedna, V. Sambri*

P2107 **Cell-free DNA: a new prognostic biomarker for COVID-19**
H. Erdem (Istanbul, Turkey), M.A. Kuskucu, I.I. Balkan*

P2108 **Evaluation of humoral immunity over time after SARS-CoV-2 vaccination using four antibody assays**
J.D. Seo (Seoul, Korea, Republic of), H. Kim, H.W. Moon, M. Hur, Y.M. Yun*

P2109 **Presence of T cell immunity for over 12 months post infection in COVID-19 patients with no detectable antibodies**
V. Pitiriga (Athens, Greece), I. Vasileiou, K. Sakellariou, S.I.L.I.A. Spyrou, V. Polymerou, K. konstantinakou*

P2110 **Prospective multi-centre and multi-setting clinical evaluation: performance of a commercial SARS-CoV-2 test in symptomatic and asymptomatic populations**
W. Stokes (Edmonton, Canada), A. Venner, K. Pabbaraju, L. Turnbull, S. Shokoples, A. Wong, K. Gill, T. Guttridge, D. Proctor, G. Tipples, B. Berenger*

P2111 **Multi-centre technical validation of 30 rapid antigen tests for the detection of SARS-CoV-2 (VALIDATE)**
G. Caruana (Lausanne, Switzerland), G. Greub, M. Schweitzer, M. Imperiali, V. Muigg, M. Risch, A. Croxatto, O. Opota, S. Heller, D. Albertos Torres, M.L. Tritten, K. Leuzinger, H. Hirsch, R. Lienhard, A. Egli*

P2112 **Replication kinetic of SARS-CoV-2 viremia in hospitalised COVID-19 patients: detection and quantification methods**
N.D. Zurita-Cruz (Madrid, Spain), A. Martín-Ramirez, E. Roy-Vallejo, L. Fontán-García Rodrigo, E. Lomas-Lomas, I. González-Álvaro, R. De La Cámara, D.A. Rodríguez-Serrano, L. Cardeñoso-Domingo*

P2113 **Mid-region proadremedullin and *in vitro* interferon-gamma production as potential predictors for in-hospital mortality in patients with COVID-19 pneumonia and respiratory failure: a monocentric prospective study**
D. Mangioni (Milan, Italy), M. Oggioni, A. Liparoti, S. Uceda Renteria, L. Alagna, S. Biscarini, M. Bolis, A. Di Modugno, M. Mussa, G. Renisi, R. Ungaro, A. Muscatello, A. Gori, F. Ceriotti, A. Bandera*

P2114 **Pre-autopsy SARS-CoV-2 testing**
M. Urrutikoetxea-Gutierrez (Bilbao, Spain), B. Morentin, M. Macho Aizpurua, J. Arrieta, D. Fernandez Vecilla, P. Liendo Arenzana, E. Ugalde Zarraga, M.C. Nieto Toboso, J.L. Diaz De Tuesta Del Arco*

P2115 **Multiplex reverse-transcription loop-mediated isothermal amplification (RT-LAMP) for rapid detection of SARS-CoV-2, influenza A, influenza B, and respiratory syncytial virus**
D. Pillai (Calgary, Canada), Y. Liu, N. Toppings, A.N. Mohon, D. Castaneda-Mogollon*

P2116 **Comparison between nasal and buccal self-swabbing and professional nasopharyngeal/pharyngeal swabbing: a single-centre, prospective, cohort study and survey**
S. Dräger (Basel, Switzerland), F. Bruni, V. Jirasko, A. Tanno, K. Leuzinger, H.H. Hirsch, M. Osthoff*

P2117 **The effect of transport media on SARS-CoV-2 PCR results**
K. Gravgaard Thomsen (Odense, Denmark), S. Løkkegaard Larsen, S. Vermedal Høgh, M. Olsen, T. Gorm Jensen, M. Nielsine Skov*

P2118 **Evaluation of SARS-CoV-2 antibody lateral flow tests in vaccinated individuals**
C. Greenland-Bews (Liverpool, United Kingdom), R.L. Byrne, S.I. Owen, R. Watkins, K. Buist, K. Clerkin, C. Escadafal, L. Finch, E. Giorgi, S. Gould, A. Hodgkinson, L. Mashenko, D. Powell, H.R. Savage, C.R. Thompson, L. Turtle, J. Wardale, D. Wooding, T. Edwards, A.I. Cubas-Astienzar, E.R. Adams*

P2119 **Robust, rapid discrimination of SARS-CoV-2 variants of concern from heterogeneous RNA samples by NGS using the QIAseq DIRECT SARS-CoV-2 Kit**
C. Bonomo (Catania, Italy), N. Musso, P. Bonacci, D. Bivona, D. Bongiorno, S. Stefani*

P2120 **The utility of the antigen assays commercial COVID-19 Ag Test kit in rapid laboratory diagnostics of SARS-CoV-2 infection: comparative analysis with the qPCR method**
D. Salamon (Kraków, Poland), A. Klajmon, A. Olechowska-Jarzab, A. Sroka-Oleksiak, M. Brzychczy-Wloch, T. Gosiewski*

P2121 **Compatibility of different transport media and solutions with two nucleic acids processing methods used in SARS-CoV-2 qPCR diagnosis**
C. Escolar (Zaragoza, Spain), M. Martínez-Santolaria, C. Sota-Diez, E. Machetti-Mareca*

P2122 **Evaluation of different quick nucleic acids processing methods to improve the diagnosis of SARS-CoV-2**
C. Escolar (Zaragoza, Spain), M. Martínez-Santolaria, C. Sota-Diez, E. Machetti-Mareca*

P2123 **Validation of SARS-CoV-2 large scale extraction with non-commercial magnetic beads**
Z. Shirazi (Oslo, Norway), M.F. Sæther, L.L. Andresen, K. Jakobsen, A. Lind, M. Bjørås, F. Müller, M. Holberg-Petersen*

P2124 **Pros and cons of used gene targets of three different commercial real-time PCR kits for SARS-CoV-2 detection**
A. Loncar (Beograd, Serbia), A. Banko, G. Petrovic, D. Miljanovic, A. Loncar, M. Vukcevic, D. Despot, A. Cirkovic*

P2125 **Lost in transcription: addressing TMA scores for SARS-CoV-2**
M. Urrutikoetxea-Gutierrez (Bilbao, Spain), D. Fernandez-Vecilla, M.C. Nieto Toboso, E. Ugalde Zarraga, M. Macho Aizpurua, J.L. Diaz De Tuesta Del Arco*

P2126 **Proof-of-concept study demonstrating a syndromic GI multiplex PCR test can monitor SARS-CoV-2 viral load in stool**
P. Boher (Barcelona, Spain), Y. Márquez, L. Rodríguez, M. Pera, C.F. Carla, F. Ferran, H. Sergio, C. Nestor, S.A. Rebecca, L.F. Marta*

P2127 **Diagnostic accuracy of an automated high-throughput SARS-CoV-2 antigen test when compared with RT-PCR in PCR-positive and PCR-negative nasopharyngeal samples**
I. Baran (Trabzon, Turkey), K. Buruk*

P2128 **Performance evaluation of a rapid multiplex point-of-care SARS-CoV-2 antigen and flu A/B test**
L. Lehane (London, United Kingdom), J. Ellis, P. Guest, V. Lawson, J. Loecherbach, S. Young*

P2129 **Evaluation of performance and usability of a rapid antigen test for COVID-19 diagnosis in an emergency care setting in Sweden**
A. Heydecke (Gävle, Sweden), K. Gullsby*

P2130 **Determination of vaccine-induced binding and neutralising antibodies to SARS-CoV-2 using standardised assays**
S. Hohensee (Lübeck, Germany), N. Langer, S. Saschenbrecker, N. Ott, W. Meyer, T. Scheper, K. Steinhagen*

P2131 **Novel interferon-gamma release assay for the quantitative determination of SARS-CoV-2-specific T cell reactivity**
K. Dieckmann (Lübeck, Germany), E. Grage-Griebenow, S. Saschenbrecker, V. Kubala, P. Valová, I. Lochman*

P2132 **Performance evaluation of a highly mutation-resilient RT-PCR assay to address diagnostic challenges with SARS-CoV-2 variants of concern**
U. Eigner (Heidelberg, Germany), J. Köffer, Z. Pounce, T. Pham, E. Hodgson, X. Wang, G. Mercier, J. Feenstra, M. Gandhi*

P2133 **Use of biomarker suPAR during the pandemic**
I. Marinou (Athens, Greece), S. Mavrea, S. Savva, V. Perdiou, E. Georgakopoulou, T. Kypriou, S. Karabela*

P2134 **Performance evaluation of a multiplex RT-PCR test for the detection of SARS-CoV-2, FluA/B and RSV**
J. Feenstra (South San Francisco, United States), K. Jacoby, C. May, C. Ulekleiv, Z. Pounce, G. Mercier, P. Jacobs, E. Hodgson, D. Welford, M. Gandhi, A. Rutkowski*

P2135 **Evaluation of clinical parameters of three commercial SARS-CoV-2 rRT-PCR kits**
M. Zejdova (Brno, Czech Republic), A. Bobokova, M. Mrkvicova, M. Sedinova, G. Vankova, E. Jansova*

P2136 **Persistent antibody responses up to 18 months after mild SARS-CoV-2 infection**
P.G. Choe (Seoul, Korea, Republic of), E. Chang, E. Lee, C.K. Kang, K.H. Song, J.H. Bang, E.S. Kim, S.W. Park, H.B. Kim, N.J. Kim, C.H. Lee, W.B. Park, M.D. Oh*

P2137 **Evaluation of a new system for the detection of SARS-CoV-2 RNA in oro-nasopharyngeal swabs**
M. De Paschale (Legnano, Italy), M.T. Manco, P. Mirri, B. Osnaghi, L. Vismara, C. Pavia, P. Clerici*

P2138 **Ct values as a diagnostic tool for monitoring SARS-CoV-2 viral load using a syndromic multiplex PCR test**
L. Peñarrubia (Barcelona, Spain), M. Juanola-Falgarona, M. Ruiz, R. Porco, C. Congost-Teixidor, M. Varo-Velázquez, S. Jiménez, S.N. Rao, F. Ortiz-Martinez, G. Pueyo, D. Manissero, J. Pareja, M. López-Fontanals*

P2139 **Accuracy of self-taken and healthcare worker-taken swabs for rapid COVID-19 testing**
H.R. Savage (Liverpool, United Kingdom), L. Finch, R. Body, R.L. Watkins, G. Hayward, E. Cook, A.I. Cubas-Atienzar, L.E. Cuevas, P. Macpherson, E.R. Adams*

P2140 **Evaluation of Liat: a fast PCR-based method for detection of SARS-CoV-2**
L. Lind (Gävle, Sweden), J. Gustafsson, A. Heydecke, K. Gullsby*

P2141 **Evaluation of analytical and clinical performances of the second-generation GenomEra SARS-CoV-2 assay kit**
J.J. Martelin (Turku, Finland), A. Mogghadam, K. Persley, A. Faramarz, J. Vainio, A.H. Tapio*

P2142 **Combinatorial pooling implementation in community laboratory setup**
I. Bandach (Lod, Israel)*

P2143 **Robust SARS-CoV-2 sequencing in a routine setting using reverse complement PCR**
R. Jansen (Lelystad, Netherlands), L. Manhro, C. Stoffers, J. Debeer, A. Vanderzanden*

P2144 **Analytical and clinical evaluation of a RNA extraction-free saliva-based in-house molecular assay for SARS-CoV-2**
J. Schoeber (Eindhoven, Netherlands), J. Schlaghecke, B. Meuwissen, M. Van Heertum, A. Van Den Brule, A. Loonen*

P2145 **Efficacy of an inactivation medium for molecular sample processing of SARS-CoV-2**
C. Hill (Corsham, United Kingdom)*

P2146 **A new non-guanidine, non-hazardous SARS-CoV-2 inactivation medium for safe respiratory swab sample collection and transport**
J. Stringer (Basingstoke, United Kingdom), S. Dimmer, R. Harvey*

P2147 **The impact of routine molecular point-of-care testing on hospital-acquired COVID-19 infection: a pre- and post-implementation study**
R. Livingstone (Southampton, United Kingdom), H. Lin, N. Brendish, S. Poole, A. Tanner, F. Borca, T. Smith, M. Stammers, T. Clark*

P2148 **Detection of antibodies anti SARS-CoV-2 for the diagnosis of active or past and cured COVID-19: comparison of five point-of-care immunochromatographic tests and concordance with IgG chemiluminiscence assay (CLIA)**
J. Guinea (Madrid, Spain), P. Escribano, A. Alvarez-Uria, A. Gomez, R. Alonso, P. Catalan, P. Muñoz*

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12e. Drug development and treatment modalities (incl. clinical trials)

P2149 **Intermediate dose enoxaparin in hospitalised patients with moderate-severe COVID-19: results of INHIXACOVID-19 trial**
G. Fornaro (Bologna, Italy), M. Giannella, B. Cosmi, M. Rinaldi, F. Cristini, E.G. Bignami, A. Montineri, S. Testa, S. Casari, E. Grandone, R. Rozzini, E. Tacconelli, A. Castagna, G. Di Perri, M. Salvetti, A. Stella, P. Viale*

P2150 **Nebulised amphotericin B and posaconazole as antifungal prophylaxis to prevent COVID-19-associated pulmonary-aspergillosis (CAPA) in critically ill patients: a pre-post retrospective study**
B. Fumarola (Brescia, Italy), L. Signorini, S. Lorenzotti, P. Lanza, B. Saccani, E. Van Hauwermeiren, A. Chiesa, D. Tuzzo, F. Zuccalà, N. Sbalzer, F.A. Rasulo, M. Filippini, M. Bertoni, A. Bertazzoli, G. Del Fabro, M. Degli Antoni, M. Barbaro, G. Tomasoni, A. Matteelli, F. Castelli*

P2151 **The super-neutralising antibody capable of protecting against infection from a wide variety of SARS-CoV-2 variants**
I. Kitajima (Toyama, Japan), T. Ozawa, H. Tani, H. Kishi, Y. Morinaga, Y. Yamamoto, N. Kurosawa, M. Isobe*

P2152 **Virological clearance profile and RNAemia in course of treatment with anti-SARS-CoV-2 monoclonal antibodies in patients diagnosed with mild-moderate COVID-19**
E. Borghi (Milan, Italy), S. Bianchi, E. Ottaviano, R. Rovito, V. Bono, S. Ancona, F. Bai, V. Yellenki, M. Hadla, T. Beringheli, C. Tincati, A. D'arminio Monforte, G.C. Marchetti*

P2153 **Casirivimab/imdevimab in severe COVID-19 in pregnant women: an observational study**
N. Esposito (Naples, Italy), A.R. Buonomo, I. Di Filippo, I. Vecchietti, M. Nobile, L. Fusco, A. Iuliano, M. Foggia, M. Guida, R. Villari, I. Gentile*

P2154 **Treatment with anti-SARS-CoV-2 monoclonal antibodies in patients with haematological malignancies and hospital-acquired infection of SARS-CoV-2: a multi-centre study**
D. Testi (Bologna, Italy), L. Bussini, B. Tazza, C. Campoli, Z. Pasquini, G. Fornaro, L. Pancaldi, F. Esposito, T. Miani, F.F. Trapani, S. Mastaglio, C. Oltolini, C. Sepulcri, E. Zappulo, M. Bartoletti, M. Bassetti, P. Viale, M. Mikulska*

P2155 **Does outpatient steroid therapy prevent mortality in COVID-19 hospitalised patients?**
V. Zerbato (Trieste, Italy), M. De Luca, M. Borelli, S. Di Bella, R. Luzzati*

P2156 **Effect of interferon beta-1b on mortality in COVID-19 pneumonia**
L. Navarro (Alcalá De Henares, Spain), J.J. Fernández, I. Corral, L. Daneri, M.Á. Casado, Á. Extremera, C. Arévalo, J. Arévalo*

P2157 **Treatment effect modifiers in hospitalised patients with COVID-19 receiving remdesivir and dexamethasone**
C. Leding (Hvidovre, Denmark), J. Bodilsen, C. Brieghel, Z.B. Harboe, M. Helleberg, C. Holm, J. Jensen, T.Ø. Jensen, I.S. Johansen, S. Johnsen, O. Kirk, B. Lindegaard, C.N. Meyer, R. Mohey, L. Pedersen, H. Nielsen, S.L. Nielsen, L.H. Omland, D. Podlekareva, P. Ravn, J. Starling, M. Storgaard, C. Søborg, O.S. Søgaard, T. Tranborg, L. Wiese, S.H.W. Worm, H.R. Christensen, T. Benfield*

P2158 **Combating SARS-CoV-2 by mechanistic insights from a highly sensitive intracellular UPLC-MS/MS assay for the parent and active triphosphate metabolite of EIDD-1931 (NHC) in infected ACE2-transfected A549 cells**
Y. Lang (Orlando, United States), J. Zhou, E.J. Franco, K.C. Hanrahan, G.L. Drusano, A.N. Brown, J.B. Bulitta*

P2159 **mTOR inhibitors use is associated with a favorable outcome of COVID-19 in kidney transplant patients**
B. Pinchera (Naples, Italy), L. Spirito, A.R. Buonomo, M. Foggia, R. Carrano, F. Salemi, E. Schettino, F. Papa, R. La Rocca, F. Crocetto, L. Napolitano, R. Villari, I. Gentile*

P2160 **A real-world evaluation of monoclonal antibody therapy for COVID-19: identification of trends and gaps in access**
A. Brotherton (Providence, United States), D. Parente, M. Ting, A. Norris, F. Shehadeh, E. Mylonakis, J. Garland, J. Johnson, S. Gardner, C. Cunha*

P2161 **ADG20, a half-life–extended monoclonal antibody in development for the prevention and treatment of COVID-19, demonstrates potent neutralisation against SARS-CoV-2 variants**
C.I. Kaku (Lebanon, United States), K. Narayan, P. Schmidt, F. Engler, Y. Li, L.M. Walker*

P2162 **Population pharmacokinetics (PPK) of ADG20, an extended half-life monoclonal antibody being developed for the treatment and prevention of COVID-19**
X. Pu (Waltham, United States), C.M. Rubino, P.G. Ambrose, L.E. Connolly*

P2163 **Resistance analysis in the COMET-ICE study: sotrovimab treatment in participants with mild-to-moderate COVID-19**
S. Subramanian (San Francisco, United States), G. Schnell, J. Di Lulio, A.K. Gupta, A.E. Shapiro, E.H. Sarkis, A. Lopuski, P.J. Yates, A. Peppercorn, M. Aldinger, C.M. Hebner, A.L. Cathcart*

P2164 **Remdesivir prescriptive propriety and correlation to outcome in 244 COVID-19 patients at D. Cotugno Hospital, Naples (Italy)**
F.M. Fusco (Naples, Italy), N. Sangiovanni, V. Mattera Iacono, N. Papa, D. Ardolino, R. Viglietti, G. Parrella, F. Borrelli, V. Bruner, O. Tambaro, C. Camaioni, R. Pisapia, F. Di Martino, A.E. Maraolo, P. Rosario, R. Pacilio, S. Parente, V. Iodice, A. Pontarelli, G. Calabria, M. Borriello, N. Maturo, M. Spatarella, V. Sangiovanni*

P2165 **Differences in clinical efficacy of monoclonal antibody regimens among non-hospitalised patients with mild to moderate COVID-19 at high risk for disease progression: a multi-centre, prospective cohort study**
A. Savoldi (Verona, Italy), M. Morra, P. De Nardo, A. Cattelan, M. Mirandola, V. Manfrin, P. Scotton, M.T. Giordani, L. Brollo, S. Panese, M. Lanzafame, G. Scroccaro, M. Berkell, G. Lippi, A. Konnova, M. Smet, S. Malothra-Kumar, S. Kumar-Singh, E. Tacconelli*

P2166 **Treatment of COVID-19 with inhaled nitric oxide using a novel nitric oxide generator**
T. Wolak (Jerusalem, Israel), D. Dicker, Y. Shifer, M. Hatan, A. Tal*

P2167 **Screening for strongyloidiasis in patients with SARS-CoV-2 infection**
A.C. Rodríguez-Guardado (Oviedo, Spain), M. Sandoval, M. Rodríguez-Pérez, V. Díaz-Fernández, M. Álvarez, L. Trapiella, J.A. Boga*

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12f. Immune response (incl immunity assessment, immunomodulation)

P2168 **Immune response in severe and critical breakthrough COVID-19 infection after mRNA vaccination**
K. Paniskaki (Essen, Germany), M. Anft, T. Meister, C. Marheinecke, S. Pfaender, S. Skrzypczyk, F. Seibert, C. Thieme, M. Konik, S. Dolff, O. Anastasiou, B. Holzer, T. Westhoff, U. Dittmer, C. Queren, L. Fricke, H. Rohn, O. Witzke, U. Stervbo, T. Roch, N. Babel*

P2169 **Comparative analysis of antibody response following SARS-CoV-2 infection or COVID-19 vaccination over an 8-month period**
J. Routsias (Athens, Greece), T. Lagousi, I. Papadatou, V. Spoulou*

P2170 **Immune response against SARS-CoV-2 following BNT162b2 vaccine: comparison between healthy and frail patients**
R. Campagna (Rome, Italy), L. Mazzuti, G. Guerrizio, C. Nonne, V. Pistolesi, S. Morabito, S. Chiaretti, G. Antonelli, O. Turriziani*

P2171 **Hybrid immunisation induces a stronger long-lasting humoral and T cell immunity compared to unvaccinated convalescent patients and naïve vaccinated subjects**
C. Saade (Lyon, France), C. Compagnon, K. Saker, B. Mokdad, J.B. Fassier, G. Oriol, S. Pons, S. Daniel, X. Lacoux, F. Berthier, K. Brengel-Presce, S. Trouillet-Assant, S.G. Covidser Study Group, S.G. Covid Ciri*

P2172 **Association between SARS-CoV-2 RNAemia and dysregulated immune response in acutely ill hospitalised COVID-19 patients**
R. Rovito (Milan, Italy), V. Bono, M. Augello, C. Tincati, F. Mainoldi, G. Beaudoin-Bussières, S. Bianchi, M. Hadla, V. Yellenki, S. Casola, E. Borghi, A. Finzi, A. D'arminio Monforte, G. Marchetti*

P2173 **Effect of SARS-CoV-2 mRNA vaccine booster on humoral and cellular immunity in patients with multiple myeloma and poor response to two-dose primary immunisation**
W. Albrich (St. Gallen, Switzerland), T. Silzle, S. Fischer, S. Nigg, R. Demmler, C. Driessen, C. Kahlert*

P2174 **A measurement of longitudinal neutralising antibody response against pseudovirus spike-protein in serum from SARS-CoV-2 PCR positive patients**
N. Eckersley (London, United Kingdom), D. Clark, E. Groppelli, B. Davies, D. Kirwan, Y. Augustin, M. Cusinato, N. Temperton, M. Mayora-Neto, I. Monaghan, L. Hadcocks, T. Planche, S. Krishna, H. Staines*

P2175 **Inflammatory markers, disease severity and prognosis in COVID-19 hospitalised patients: experience from a large Greek academic centre during four epidemic waves**
A. Liontos (Ioannina, Greece), D. Biros, F. Barkas, L. Athanasiou, O. Milionis, S. Tsourlos, N.G. Kolios, M. Kosmidou, A. Panteli, M. Christaki, I. Rapti, G. Papamichail, S. Sianou, R. Konstantopoulou, L. Gkika, A. Athanasiou, I. Vagias, E. Liberopoulos, E. Christaki, H. Milionis*

P2176 **Longitudinal evaluation of matrix metallopeptidase-9 (MMP-9) and tissue inhibitor of metalloproteinase-1 (TIMP-1) plasmatic levels during acute COVID-19 disease and in the long COVID**
P. Pasculli (Rome, Italy), M.A. Zingaropoli, F. Paribeni, V. Perri, T. Latronico, F. Dominelli, M.S. Guardiani, R. Merz, E. Tortellini, G.M. Liuzzi, M. Lichtner, C. Matroianni, M.R. Ciardi*

P2177 **Antibody response after BNT162b2 vaccination in healthcare workers with a previous positivity to SARS-CoV-2**
G. Gazzaniga (Milan, Italy), A. Romandini, S. Agliardi, T. Conti, S. D'onghia, O.M. Gagliardi, M. Maggi, P.A. Schenardi, A. Schianchi, M. Senatore, C. Vismara, V. Cento, M. Merli, M. Puoti, D. Campisi, A. Pani, F. Scaglione*

P2178 **Predictive role of cytokines in COVID-19 severity**
F. Pinarlik (Istanbul, Turkey), Ö. Albayrak, G. Babuccu, Ö. Dogan, Y. Besli, S. Incir, E. Palaoglu, F. Can, Ö. Ergönül*

P2179 **Longitudinal study of serum and salivary anti-spike IgA in children after SARS-CoV-2 infection**
L. Sorrentino (Rome, Italy), G. Oliveto, F. Frasca, M. Scordio, A. Viscido, M. Fracella, L. Matera, L. Petrarca, R. Nenna, F. Midulla, M. Gentile, C. Scagnolari, G. Antonelli, A. Pierangeli*

P2180 **Assessment of immune response in elderly persons from residential care facilities following COVID-19 vaccination in Romania, 2021**
T. Vremera (Bucharest, Romania), A. Pistol, F. Furtunescu, M. Leustean, A. David, A. Gatea, C. Ilie, I. Radu, A.M. Cornienco, L.S. Iancu*

P2181 **Marked decrease in IgG (anti-S/RBD) antibodies in healthcare workers, nine months after vaccination**
A. Melo (Lisbon, Portugal), A.J. Santos, C. Henriques, I. Costa, R. Matos, P. Braz, A.P. Rodrigues, I. Kislaya, A. Santos Silva, C. Nunes, C. Roque, J. Aguiar, M.D.F. Graça, A. Silva Graça, R. Guiomar, A. Machado*

P2182 **Effect of SARS-CoV-2 Delta variant on the correlation of antibody titres between commercially-available antibody assays and live virus microneutralisation assay**
K. To (Hong Kong, China), O. Tsang, I. Hung*

P2183 **A longitudinal follow-up study of SARS-CoV-2 antibody persistence**
M. Sarjomaa (Skien, Norway), R. Eikeland, L. My Diep, Y. Tveten, H. Reiso, C. Thilesen, S.A. Nordbø, K.K. Berg, I. Aaberge, N. Pearce, H. Kersten, J.P. Vandenbroucke, A.K.M. Fell*

P2184 **Early T cell specific response in household contacts exposed to COVID-19 patients**
A. Aiello (Rome, Italy), A. Grossi, S. Meschi, M. Meledandri, V. Vanini, L. Petrone, R. Casetti, G. Cuzzi, A. Salmi, A.M.G. Altera, L. Pierelli, C. Castilletti, C. Agrati, E. Girardi, F. Palmieri, E. Nicastri, E. Di Rosa, D. Goletti*

P2185 **Evaluation of humoral and cellular responses in SARS-CoV-2 mRNA vaccinated severely immunocompromised patients**
E. Padalko (Ghent, Belgium), M. Oyaert, M.A. De Scheerder, S. Van Herrewege, G. Laureys, S. Van Assche, M. Cambron, F. Haerynck, L. Naesens, L. Hoste, K. Claes, T. Kerre, S. Van Laecke, W. Van Biesen, P. Jacques*

P2186 **A large study of humoral and cellular immunity of healthcare workers in Portugal**
C. Cortes (Tomar, Portugal), R. Coelho, A.P. Augusto, S. Paredes, R. Figueiredo, P. Gama*

P2187 **T cell immunity to SARS-CoV-2 infection following natural infection and vaccination**
V. Pitiriga (Athens, Greece), I. Vasileiou, K. Sakellariou, N. Spyrou, V. Polymerou, K. Konstantinakou*

P2188 **Hyperinflammatory state and low T1 adaptive immune response in severe and critical acute COVID-19 patients**
M. Garcia-Gasalla (Palma, Spain), M. Berman-Riu, A. Rodriguez, J. Murillas, A. Ferre-Beltran, M. Riera, J. Pons, N. Martinez-Pomar, A. Iglesias, J.M. Ferrer*

P2189 **Quantification of SARS-CoV-2 neutralising antibodies after vaccination in COVID-19 positive and negative Italian healthcare workers**
L. Signorini (Milan, Italy), A. Modenese, M. Dolci, S. D'alessandro, N. Basilico, P. Silvia, L. Denti, S. Delbue, F. Pasquale*

P2190 **Impact on HIV-1 RNA levels and antibody responses following SARS-CoV-2 vaccination in HIV-infected individuals**
S. Musumeci (Geneva, Switzerland), P. Vera, C. Fedeli, P. Ustero, I. Petignat, E. Mereles, A. Sulstarova, C. Jaksic, S. Yerly, A. Calmy*

P2191 **Evaluation of anti-SARS-CoV-2 IgGs directed against S1/S2 (Spike) epitopes and neutralising antibodies response in infected and vaccinated subjects**
G.M. Giammanco (Palermo, Italy), F. Bonura, S. De Grazia, G.L. Sanfilippo, E. Amodio, D. Ferraro*

P2192 **Complement and endothelial cell activation in COVID-19 patients compared to controls with suspected SARS-CoV-2 infection: a prospective cohort study**
M. Osthoff (Basel, Switzerland), F. Bruni, M. Leimbacher, P. Charitos, M. Lampart, S. Moser, M. Siegemund, R. Bingisser, S. Osswald, S. Bassetti, R. Twerenbold, M. Trendelenburg, K. Rentsch*

P2193 **Challenging the dogma's: quantitative analysis of mRNA-1273 vaccine response in a wide spectrum of immunodeficient haematology patients**
S. Haggenburg (Amsterdam, Netherlands), Q. Hofsink, B.I. Lissenberg-Witte, R. Binnendijk, G. Den Hartog, M.S. Bhoekhan, N.J.E. Haverkate, D. De Rooij, A.E.C. Broers, P.G.N.J. Mutsaers, T. Van Meerten, J.A. Van Doesum, A.P. Kater, S. Zweegman, M.J. Van Gils, A. Goorhuis, C.E. Rutten, M.D. Hazenberg, I.S. Nijhof*

P2194 **Cytokines, calgranulins and specific antibodies in breast milk of mothers after SARS-CoV-2 infection**
H. Boutal (Gif-Sur-Yvette, France), V. Rigourd, M. Prost, K. Patient, H. Bernard, N. Morel, E. Yang, C. Amalric-Lapoujade, S. Simon, A. Lapillonne*

P2195 **Immune response and side effects after the second and the third dose of BNT162b2 vaccine**
P. Naaber (Tallinn, Estonia), E. Sepp, V. Jürjenson, L. Tserel, K. Kisand, P. Peterson*

P2196 **SARS-CoV-2 specific cytokine producing regulatory T cells observed in mild COVID-19 patients**
P. Seepathomnarong (Songkhla, Thailand), J. Ongarj, R. Sophonmanee, S. Surasombatpattana, S. Chusri, P. Nawamin*

P2197 **Comparison of three collection modes to assess antibody response to SARS-CoV-2 mRNA vaccines in saliva**
H. Boutal (Gif-Sur-Yvette, France), Y. Wang, S. Oueslati, I. Ramdhani, L. Escaut, C. Vauloup-Fellous, A.M. Roque-Afonso, L. Dortet, S. Simon, T. Naas*

P2198 **Avidity and antibody levels as a surrogate of protective immunity against COVID-19**
E. Löfström (Halmstad, Sweden), A. Eringfält, A. Kötz, W. Christ, J. Klingström, S. Kunkel, J. Undén*

P2199 **QuantiFERON® SARS-CoV-2 and total spike antibody tests in immunocompetent adults and kidney transplant patients after two mRNA vaccine doses**
V.P. Dimova-Svetoslavova (Oslo, Norway), K. Midtvedt, G.B. Kro, A. Åsberg, F. Müller*

P2200 **Plasma cytokine profiling of COVID-19 patients under immunomodulatory treatment with anakinra and methylprednisolone**
A. Lombardi (Milan, Italy), M. Tirone, E. Trombetta, A. Cattaneo, V. Castelli, E. Palomba, C. Azzarà, D. Mangioni, G. Bozzi, A. Muscatello, L. Barbetta, A. Gramegna, G. Florio, G. Grasselli, C. Agostoni, G. Filocamo, F. Minoia, A. Gori, L. Porretti, A. Bandera*

P2201 **A six-month period evaluation of T cell response after ChAdOx1 nCoV-19 and BNT162b2 vaccination**
T.H. Lee (Seoul, Korea, Republic of), H.W. Moon, M. Nam, M. Hur, J.D. Seo, H. Kim*

P2202 **Monitoring the humoral immune response elicited by COVID-19 vaccines**
G. Beko (Budapest, Hungary), M. Gönczi, R. Steinhauser, B. Kádár, I. Vályi-Nagy*

P2203 **Cellular immune response up to nine months after SARS-CoV-2 infection: a Southeast Asian longitudinal cohort**
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P2204 **Evaluation of antibody kinetics in healthcare workers (HCWs) of an istutition in Turkey, vaccinated with inactivated COVID-19 vaccine**
E. Senol (Ankara, Turkey), Y. Yildiz, H.S. Ozger, R. Karakus, M. Buyukkoruk, F.B. Altin, F.Z. Ozcan, M. Yaman, N. Oruklu, A. Atak Yucel, E.U. Bagriacik*

P2205 **Antibody titres three-months post-vaccination with the BNT162b2 vaccine in Greece**
K. Kontopoulou (Athens, Greece), C. Nakas, N. Charikleia, K. Christos, C. Goulas, G. Papazisis*

P2206 **Evolution of antibody titres up to six months post-immunisation with the BNT162b2 vaccine in Greece**
K. Kontopoulou (Thessaloniki, Greece), C. Nakas, A. Ainazoglou, G. Goudi, C. Katsioulis, G. Papazisis*

P2207 **First evidence of on-field effectiveness of BNT162b2 vaccine among healthcare workers of Ospedale Policlinico San Martino IRCCS, Genoa, Italy**
A. Fiorano (Genoa, Italy), E. Costa, G. Noberasco, A. Battistini, F. Scola, M. Paoletti, M. Cappellin, A. Orsi, G. Icardi*

P2208 **Antibody response against SARS-CoV-2 in vaccinated mums and respective children**
O.M. Gagliardi (Milan, Italy), S. Renica, S. Agliardi, F. Di Ruscio, A. Zampiero, A. Pani, C. Vismara, D.A. Campisi, A. Proto, F. Scaglione, S. Martinelli*

P2209 **A comparative analysis on the effectiveness of vaccines against SARS-CoV-2**
R. Máté (Budapest, Hungary), L. Bereczki, D. Fekete, A. Dr. Széll, Á. Takács, Z. Gál, V. Novozánszki-Molnár, Z. Kenessey, E. Dr. Ujhelyi*

P2210 **Sero-survey on long-term care facility residents after BNT162b2 vaccine: prevalence and risk factors of sub-optimal antibody response**
M. Franzetti (Milan, Italy), B. Caimi, R. Velleca, A. Lai, A. Gatti, P.L. Rossi, M. Italo D`Orso, F. Pregliasco, C. Balotta, G. Calicchio*

P2211 **BNT162b2 vaccine: immunogenicity survey among Policlinic San Martino IRCCS healthcare workers**
R. Amato (Genoa, Italy), D. Olobardi, B. Bruzzone, G. Da Rin, A. Morando, V. Daturi, R. Ziferro, A. Orsi, G. Icardi*

P2212 **SARS-CoV-2-specific antibodies, B cell and T cell immune responses after ChAdOx1 nCoV-19 vaccination in solid organ transplant recipients**
J. Bruminhent (Bangkok, Thailand), P. Phornkittikorn, S. Kantachuvesiri, A. Sobhonsaritsuk, T. Yingchoncharoen, S. Kiertiburanakul, R.R. Maude, C. Setthaudom, S. Srisala, S. Prasongtanakij*

P2213 **COVID-19 vaccination rate among people living with HIV in Italy and predictors of missing vaccination**
A. Tavelli (Milan, Italy), S. Cicalini, D. Barbanotti, S. Antinori, M. Guastavigna, G. Guaraldi, D. Segala, G. Lapadula, C. Lazzaretti, M. Puoti, F. Ceccherini-Silberstein, A. Castagna, E. Girardi, A. D'arminio Monforte, A. Antinori*

P2214 **Kinetics of anti-SARS-CoV-2 antibody response after BNT162b2 vaccination: the results of six months of follow-up**
A. Pani (Milan, Italy), V. Panetta, G. Gazzaniga, A. Romandini, S. Agliardi, T. Conti, S. D'onghia, O. Gagliardi, M. Maggi, P.A. Schenardi, A. Schianchi, M. Senatore, S. Renica, C. Vismara, M. Merli, V. Cento, M. Puoti, D. Campisi, F. Scaglione*

P2215 **The BNT162b2 mRNA vaccine against SARS-CoV-2 affects both adaptive and innate immune responses**
K. Föhse (Nijmegen, Netherlands), B. Geckin, G. Overheul, J. Van De Maat, G. Kilic, O. Bulut, H. Dijkstra, H. Lemmers, A. Sarlea, M. Reijnders, J. Hoogerwerf, J. Ten Oever, E. Simonetti, F. Van De Veerdonk, L. Joosten, B. Haagmans, R. Van Crevel, Y. Li, R. Van Rij, C. Geurts Van Kessel, M. De Jonge, J. Domínguez-Andrés, M. Netea*

P2216 **SARS-CoV-2 antibody levels after vaccination and booster in different vaccination regimens**
M. Obermeier (Berlin, Germany), R. Ehret, J. Geisler, D. Budach, C. Pappa*

P2217 **SARS-CoV-2 spike specific cellular immunity after two doses of inactivated vaccine followed by mRNA or inactivated vaccine boosters**
Z.G. Talay (Istanbul, Turkey), R. El, G. Esken, O. Albayrak, Y. Tok, Z.E. Kuloglu, T. Barlas, O. Dogan, M.A. Kuskucu, S.S. Yavuz, K. Midilli, O. Ergonul, F. Can*

P2218 **COVID-19 breakthrough infections in Serbia: morbidity and mortality**
M. Bajci (Novi Sad, Serbia), M. Drljaca, M. Ristic, V. Petrovic, V. Turkulov, D. Lendak*

P2219 **Characterisation of healthcare workers with low antibody titre at 6 months from vaccination**
O.M. Gagliardi (Milan, Italy), G. Ginelli, S. Renica, A. Romandini, M. Senatore, P.A. Schenardi, G. Gazzaniga, S. Agliardi, M. Maggi, A. Schianchi, T. Conti, S. D'onghia, A. Zampiero, C. Vismara, D.A. Campisi, A. Pani, F. Scaglione*

P2220 **Vaccine effectiveness against hospitalised and severe SARS-CoV-2 variant Delta infections in adults in France: a test-negative case-control study**
L.B. Luong Nguyen (Paris, France), R. Bauer, Z. Lesieur, Y. Saidi, F. Galtier, X. Duval, P. Vanhems, F. Laine, A. Maisa, C. Durier, O. Launay*

P2221 **The impact of SARS-CoV-2 vaccination on post-acute sequelae of COVID-19 (PASC): an exposure-matched cohort study**
E. Wynberg (Amsterdam, Netherlands), A. Boyd, A.X. Han, H.D.G. Van Willigen, A. Verveen, R. Lebbink, M.J. Van Gils, C.A. Russell, K. Van Der Straten, N. Kootstra, T. Leenstra, G. De Bree, M.D. De Jong, M. Prins*

P2222 **Protective effect conferred by prior infection and vaccination on COVID-19 in a healthcare worker cohort in south India**
M. Murugesan (Vellore, India), P. Mathews, H. Paul, R. Karthik, J. Mammen, P. Rupali*

P2223 **Anti-spike antibody concentrations after COVID-19 mRNA-vaccination in in healthcare workers in southeast Switzerland**
A. Cusini (Chur, Switzerland), C. Hirzel, K. Szajek, S. Guesewell, F. Fleisch, S. Hutter, S. Robitt, M. Risch, T. Bechmann*

P2224 **Immunogenicity and safety surveillance of the BNT162b2 vaccine in healthcare workers according to prior COVID-19 history: experience from an Italian tertiary university hospital**
E. Zappulo (Naples, Italy), S. Mercinelli, A. Sardanelli, A. Lanzardo, A. Giaccone, M. Sarno, L. Fusco, L. Ametrano, A. Carnevale, D. Troncone, A. Furno, G. Portella, I. Gentile*

P2225 **Humoral immune responses to heterologous or homologous COVID-19 vaccination**
Z.E. Kuloglu (Istanbul, Turkey), G. Esken, Ö. Albayrak, Y. Tok, R. El, Z.G. Talay, T. Barlas, Ö. Dogan, M. Kuskucu, S. Simsek Yavuz, K. Midilli, Ö. Ergönül, F. Can*

P2226 **Vaccine effectiveness against COVID-19 related hospital admission in the Netherlands: a test-negative case-control study**
F.A. Niessen (Bilthoven, Netherlands), M.J. Knol, S.J.M. Hahné, M.J.M. Bonten, P. Bruijning-Verhagen*

P2227 **Identification of susceptibility loci for adverse events following COVID-19 vaccination in the Japanese population: a web-based genome wide association study**
S. Nogawa (Tokyo, Japan), H. Kanamori, K. Tokuda, K. Kawafune, M. Chijiiwa, K. Saito, S. Takahashi*

P2228 **National BNT162b2 and ChAdOx1-S/nCoV-19 COVID-19 vaccine effectiveness against hospitalisation in Malta: one and two doses and vaccine effectiveness six-months after vaccination**
J. Baruch (Solna, Sweden), J.P. Cauchi, A. Dziugyte, T. Melillo, J. Attard, M.L. Borg*

P2229 **Persistence of SARS-CoV-2-specific T cell responses for over six months in vaccinated population with no measurable levels of anti-S antibodies**
V. Pitiriga (Athens, Greece), I. Vasileiou, K. Sakellariou, N. Spyrou, V. Polymerou, K. Konstantinakou*

P2230 **COVID-19 vaccination readiness among Sri Lankan university students**
P.H.D.S. Rathnasooriya (Batticaloa, Sri Lanka), S. Selvarathan, P.G.E. Ishani, A.S.M. Wijesinghe, R.A.M. Dayasena, J. Lohitharajah*

P2231 **COVID-19 vaccine acceptance in middle and high school students, Auvergne-Rhône-Alpes in June 2021**
A. Gagneux-Brunon (Saint-Étienne, France), E. Darlington, C. Salque, J. Masson, J. Beytout, P. Vanhems, O. Epaulard, B. Lina, E. Botelho-Nevers*

P2232 **SARS-CoV-2 specific cellular response following COVID-19 vaccination in patients with chronic lymphocytic leukaemia**
S. Mellinghoff (Cologne, Germany), S. Robrecht, C. Dahlke, L. Mayer, L. Weskamm, H. Gruell, K. Vanshylla, F. Klein, M. Addo, B. Eichhorst, M. Hallek, P. Langerbeins*

P2233 **Immunogenicity of a third dose of ChAdOx1 nCoV-19 vaccine after a two-dose inactivated SARS-CoV-2 vaccination of dialysis patients and kidney transplant recipients (CVIM 2/ICON 2 study)**
J. Bruminhent (Bangkok, Thailand), C. Setthaudom, R. Kitpermkiat, S. Kiertiburanakul, K. Malathum, M. Assanatham, A. Nongnuch, A. Phuphuakrat, P. Chaumdee, C. Janphram, S. Thotsiri, P. Chuengsaman, S. Boongird*

P2234 **Intention to participate in COVID-19 vaccine clinical trial in the general population in France in May 2021**
A. Gagneux-Brunon (Saint-Étienne, France), E. Botelho-Nevers, M. Bonneton, P. Verger, J. Ward, O. Launay*

P2235 **Evaluation of gender and age impact on the secondary immune response after anti-SARS-CoV-2 BNT162b2 vaccination**
G. Parisi (Rome, Italy), B.D. Leoni, B. Mariani, A. D'Agostino, R.H. Sperning, R.M. Oliverio, G. Perugini, P. Grammatico, D. Orazi*

P2236 **Comprehensive profiling of immune response to COVID-19 vaccination in patients treated with Bruton's tyrosine kinase inhibitor**
B. Teh (Melbourne, Australia), O. Nguyen, C. Lim, M. Lasica, A. Whitechurch, S. Tennakoon, N. Saunders, L. Rowntree, L. Allen, B. Chua, L. Kedzierski, M. Slavin, C. Tam, K. Kedzierska*

P2237 **Survey of healthcare workers' knowledge and attitude toward COVID-19 vaccination in Korea**
M. Jeon (Busan, Korea, Republic of), J.Y. Lee, S. Jin*

P2238 **Evaluation of neutralising antibody response against different SARS-CoV-2 variants in naïve and COVID-19 healthcare workers after BNT162b2 vaccination and unvaccinated COVID-19 subjects**
I. Cassaniti (Pavia, Italy), J.C. Sammartino, A. Ferrari, G. Ferrari, F. Giardina, F. Zavaglio, A. Piralla, E. Percivalle, F. Baldanti*

P2239 **Breakthrough infections in a cohort of patients hospitalised for acute COVID-19**
D. Stupica (Ljubljana, Slovenia), M. Nahtigal Klevišar, N. Kejžar, S. Collinet-Adler*

P2240 **Assessing antibody response to COVID-19 vaccine in solid organ transplant recipients: does the timepoint matter? The ORCHESTRA fragile cohort**
M. Giannella (Bologna, Italy), E. Righi, T. Lazzarotto, S. Kumar-Singh, Z. Palacios Baena, G. Caponcello, M.C. Morelli, M. Busutti, L. Potena, E. Salvaterra, U. Cillo, G. Gerosa, M. Cananzi, S. Piano, E. Benetti, P. Burra, M. Loy, L. Furian, G. Zaza, F. Onorati, A. Carraro, F. Gastaldon, M. Nordio, G. Feltrin, M. Abedini, P. Boffetta, N. Caroccia, J. Rodriguez-Bano, E. Tacconelli*

P2241 **Reported pregnancies and associated outcomes across the NVX-CoV2373 COVID-19 vaccine clinical development programme**
H. Beyhaghi (Gaithersburg, United States), A. Marchese, C. Winters, K. Smith, S. Toback*

P2242 **Effectiveness of COVID-19 vaccine against at least moderate severity of SAR-CoV-2 infection during Delta variant spread: a real-world study**
P. Damronglerd (Pathum Thanee, Thailand), P. Sritipsukho, N. Suwantarat*

P2243 **Transplant providers' perceptions of COVID-19 vaccination in the wake of a global pandemic**
A. Spallone (Houston, United States), F. Khawaja, E. Ariza-Heredia, G.A. Papanicolaou, M.J. Boeckh, S.S. Dadwal, M.Z. Abidi, J.F. Camargo, Z. El Boghdadly, Z. Shahid, R.F. Chemaly*

P2244 **Australian national survey of drivers and barriers to COVID-19 vaccination in people with cancer**
B. Teh (Melbourne, Australia), A. Appathurai, C. Allan, M. Crane, A. Piper, A. Hyatt, D. Spence*

P2245 **Safety, tolerability, and immunogenicity of a booster dose of BNT162b2 COVID-19 vaccine co-administered with 20-valent pneumococcal conjugate vaccine (PCV20) in adults 65-years of age and above**
M. Young (Collegeville, United States), D. Fitz-Patrick, T. Jennings, K. Yacisin, K. Mcelwee, T. Belanger, K. Belanger, Y. Peng, D.Y. Lee, W.C. Gruber, D.A. Scott, W. Watson*

P2246 **Longitudinal analysis of SARS-CoV-2 antibody after COVID-19 vaccination**
H.S. Kim (Hwaseong-Si, Korea, Republic of), S. Jung, N. Lee, S.K. Lee*

P2247 **Correlation between reactogenicity and immunogenicity after the ChAdOx1 nCoV-19 and BNT162b2 mRNA vaccines**
S.Y. Lim (Seoul, Korea, Republic of), J.Y. Kim, S. Park, J.S. Kwon, J.Y. Park, H.H. Cha, M.H. Suh, H.J. Lee, S. Bae, J. Jung, N. Lee, K. Kim, D. Shum, Y. Jee, S.H. Kim*

P2248 **Patients' perception and knowledge about influenza and pneumococcal vaccination during the COVID-19 pandemic: an online survey in patients at risk of infections**
P. Loubet (Nîmes, France), J. Rouvière, A. Merceron, O. Launay, A. Sotto*

P2249 **Durability of responses to SARS-CoV-2 BNT162b2 vaccination in patients on active anti-cancer treatment**
N. Eliakim Raz (Tel Aviv, Israel), A. Masrawa, A. Stemmer, S. Stemmer*

P2250 **Early immunogenicity and safety of the 3rd dose BNT162b2 mRNA COVID-19 vaccine among adults older than 60 years: a real-world experience**
M. Gilboa (Ramat Gan, Israel), M. Mandelboim, V. Indenbaum, Y. Lustig, C. Cohen, G. Rahav, K. Asraf, S. Amit, H. Jaber, I. Nemet, L. Kliker, E. Bar-Haim, E. Mendelson, R. Doolman, C. Rubin, G. Regev-Yochay, Y. Kreiss*

P2251 **Immunogenicity and reactogenicity of heterologous and homologous mRNA-1273 and BNT162b2 vaccination: a multi-centre, non-inferiority, randomised trial**
C. Janssen (Annecy Pringy, France), C. Marine, L. Ninove, M. Lachatre, J. Michon, O. Epaulard, Z. Maakaroun-Vermesse, C. Chidiac, B. Laviolle, H. Aumaitre, A. ASSAF, K. Lacombe, C. Schmidt-Mutter, E. Botelho-nevers, M. Briere, T. Boisson, P. Loubet, B. Bienvenu, O. Bouchaud, A. Touati, C. Pereira, A. Rousseau, L. Berard, M. Montil, X. de Lamballerie, T. Simon, O. Launay*

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P2252 **COVID-19-associated invasive fungal infections: a single-centre experience**
L. Cattaneo (Naples, Italy), A. Giaccone, A.R. Buonomo, R. Scotto, S. Mercinelli, A. Sardanelli, E. Roscetto, M. Catania, I. Gentile*

P2253 **Implementation of seven-day SARS-CoV-2 PCR screening programme for patients exposed to a confirmed case of COVID-19 in hospital: a retrospective observational study**
L. Ruprai (London, United Kingdom), P. Harbham, N. Nolan, N. Walters, J. Allan, M. Mirfenderesky*

P2254 **A snapshot of the secondary bacterial and fungal infection in COVID-19 patients in an Italian hospital**
S. Gaiarsa (Pavia, Italy), G. Petazzoni, M. Corbella, D. Di Carlo, A. De Silvestri, B. Mariani, M. Colaneri, A. Muzzi, C. Bandi, R. Bruno, F. Baldanti, P. Cambieri*

P2255 **An ongoing outbreak of *Acinetobacter baumannii* was magnified by the outburst of the COVID-19 pandemic**
S. Gaiarsa (Pavia, Italy), G. Petazzoni, G. Bellinzona, C. Merla, M. Zatelli, A. Kuka, M. Corbella, P. Cambieri, F. Baldanti, F.P. Cléon, Ø. Samuelsen, P. Johnsen, J. Corander, D. Sassera*

P2256 **Outbreak of human metapneumovirus during a COVID-19 pandemic in a nursing home, a co-circulation?**
D. Seynaeve (Lyon, France), N. Weil-Armand, C. Van Wijem, M.P. Cortez-Pichard, G. Gavazzi*

P2257 **Impact of the COVID-19 pandemic on isolation of multidrug-resistant bacteria in French hospitals**
D. Smith (Paris, France), L. Opatowski, L. Temime*

P2258 **Assessing compliance with pre-cardiac surgery *Staphylococcus aureus* screening before, during and after the peak of the COVID-19 pandemic in a tertiary cardiac centre in the United Kingdom**
E. Ferran (London, United Kingdom), C. Buckingham, T. Carveth-Johnson, C. Suarez*

P2259 **Emergence of two distinctive multidrug-resistant clones of *Corynebacterium striatum* among patients in intensive care unit during first wave of COVID-19 pandemic in the UK**
E. Jauneikaite (London, United Kingdom), M. Getino, S. Mookerjee, J. Turton, H. Abbas, K. Malpardita-Cardenas, L. Miglietta, J. Rodriguez-Manzano, F. Bolt, M. Ellington, A. Holmes, F. Davies, J. Price*

P2260 **An outbreak of nosocomial bloodstream infection due to multidrug-resistant *Acinetobacter baumannii* in COVID-19 intensive care unit**
K. Dobrovic (Zagreb, Croatia), K. Selec, J. Peršec, T. Škrobo, S. Sakan, M. Jelic, A. Mihelcic, S. Hleb*

P2261 **Nosocomial transmission of SARS-CoV-2: importance of contact tracing activity of infection control teams**
E. Glampedakis (Lausanne, Switzerland), E. Kampouri, E. Moulin, I. Federli Hanachi, G. Chaillou, D. Gustin, M. Gyger Wanzenried, I. Koenig, A. Lacot, H. Salehi Gysel, M.J. Thevenin, E. Viaccoz, A. Vital-Heilbronn, B. Grandbastien, L. Senn*

P2262 **Ventilator-associated pneumonia among severe COVID-19 related ARDS patients**
M. Zghidi (Sousse, Tunisia), I. Ben Saida, I. Maatoug, D. Hamdi, R. Boubtane, M. Boussarsar*

P2263 **Antibiotic resistance spectrum and onset timing of bacterial ventilator-associated pneumonia among critically ill COVID-19 patients in Brescia**
E. Van Hauwermeier (Brescia, Italy), A. Mule', M. Migliorati, D. Laurenda, G. Del Fabro, B. Fumarola, R. Pizzi, B. Saccani, S. Lorenzotti, P. Lanza, L. Signorini, A. Matteelli, F. Castelli*

P2264 **Infection prevention and control in Belgian nursing homes: knowledge, attitudes and practices of general practitioners at the onset of the COVID-19 pandemic**
L. Mortgat (Brussels, Belgium), E. Miller, E. Duysburgh, F. Kidd*

P2265 **Atmospheric air cold plasma activated mist to inactivate SARS-CoV-2: a potential novel preventative measure**
A. Upadrasta (Dublin, Ireland), T. Thompson, B. Gilmore, S. Daniels, H. Humphreys*

P2266 **Outbreak with OXA-23-producing *Acinetobacter baumannii* in a COVID-19 cohort: unraveling routes of transmission**
S. Zingg (Basel, Switzerland), S. Kuster, M. Von Rotz, M. Wehrli, A. Portmann, A. Egli, H. Seth-Smith, S. Marsch, H. Pargger, R. Kühl, S. Tschudin Sutter*

P2267 **COVID-19 and seasonal influenza vaccine uptake of hospital employees in southeast Switzerland**
A. Cusini (Chur, Switzerland), C. Hirzel, S. Guesewell, K. Szajek, F. Fleisch, S. Hutter, S. Robitt, M. Risch, T. Bechmann*

P2268 **The incidence of co-infection and secondary infection related to COVID-19 by the severity at the time of hospitalisation in Korea**
S.J. Lee (Seongnam-Si, Korea, Republic of), D.R. Yoon, Y.S. Choi, S.R. Go, J.T. Jung, K.H. Song, E.S. Kim, S.M. Oh, S.J. Choi, H.S. Oh, H.B. Kim*

P2269 **Surgical site infection after solid organ transplantation: features associated with higher rates during COVID-19 pandemic**
M.P. Freire (São Paulo, Brazil), N.N. Nunes, A. Song, D. Brandao, V.O.C. Brito, M.C. Souza, M. Lapchick, M.G. Valente, L. Haddad, D. Terrabuio*

P2270 **Incidence of nosocomial SARS-CoV-2 infections in a Dutch teaching hospital (March 2020-November 2021): an observational study**
V. Weterings (Breda, Netherlands), M. Tinga, M. Van Rijen, S. Pas, W. Van Den Bijllaardt*

P2271 **Epidemiological typing of Enterobacterales from critical COVID-19 patients by whole genome sequencing**
M. Fernandez Torres (Vitoria-Gasteiz, Spain), L. Urrutia-Angulo, R. Alonso-Monsalve, A. Aguirre-Quiñonero, M.C. Lecároz-Agara, M. Almela-Ferrer, H. Barrasa-González, I. Martinez-Malaxetxebarria, A. Canut-Blasco*

P2272 **The impact of COVID-19 on the point-prevalence surveillance of healthcare-associated infections in Dutch hospitals, 2016-2020**
N. Kampstra (Waddinxveen, Netherlands), S. Van Rooden, T. Van Der Kooi, T. Hopmans, S. De Greeff*

P2273 **SARS-CoV-2 survival on healthcare workers' hands caring for COVID-19 patients**
C. Legeay (Angers, France), W. Peron, C. Le Bihan, A. Pivert, C. Lefeuvre*

P2274 **Nosocomial cluster of vancomycin-resistant enterococci during COVID-19 pandemic**
M. Van Singer (Lausanne, Switzerland), D.S. Blanc, L. Senn, B. Grandbastien*

P2275 **Air sampling for SARS-CoV-2 in acute care hospitals**
A. Sonpar (Edmonton, Canada), I. Tetreau, T. Johnson, R. Nishida, Y.C. Lin, D. Evans, J. Olfert, S. Smith*

P2276 **Clinical characterisation of *Clostridiodes difficile* infection in the COVID-19 era**
E. Reigadas (Madrid, Spain), S. Vázquez-Cuesta, M. Olmedo, S. Rodríguez-Fernández, L. Alcalá, M. Marín, P. Muñoz, E. Bouza*

P2277 **Behaviours associated with SARS-CoV-2 infection in non-institutionalised elderly:a case-control study**
J.F. Fernandes (Saint-Étienne, France), A. Addario, A. Gagneux-Brunon, M. Détoc, L. Lafaie, G. Gavezzi, T. Célarier, E. Botelho-Nevers*

P2278 **Outcomes amongst COVID-19-infected patients with secondary methicillin-resistant *Staphylococcus aureus* bloodstream infections at a large academic health system in Miami, FL (USA)**
V. Salazar (Miami, United States), A. Vega, J. Simon, K. Deronde, C. Vu, R. Boatwright, R. Rosa, L. Abbo, K. Sposato, A. Jimenez*

P2279 **Filling the gap on in-hospital antibiotic consumption and antimicrobial resistance during the COVID-19 pandemic: lack of infection control more than antimicrobial stewardship?**
M. Meschiari (Modena, Italy), L. Onorato, E. Bacca, G. Orlando, A. Bedini, M.M.I. Menozzi, A. Santoro, E.U. Franceschini, L. Luppi, M. Sarti, L. Cancian, M. Girardis, C. Mussini*

P2280 **Incidence and risk factors for colonisation and infection by multidrug-resistant bacteria in a large cohort of mechanically ventilated COVID-19 patients in Lombardy, Italy**
D. Mangioni (Milan, Italy), G. Monti, L. Chatenoud, J. Colombo, F. Arnaiz Guerrero, M. Bolis, N. Bottino, B. Breda, G. Fior, M. Marotta, G. Massobrio, C. Matinato, A. Muscatello, E. Palomba, P.F. Previtali, S.M. Santambrogio, F. Tardini, G. Zuglian, G. Grasselli, R. Fumagalli, A. Gori, N. Stocchetti, A. Bandera*

P2281 **Impact of universal admission testing for SARS-CoV-2 on inpatient transmission**
V. Williams (Toronto, Canada), C. Chan, A. Chan, J. Leis*

P2282 **The impact of the COVID-19 pandemic on the infection prevention and control programmes in Belgian acute care hospitals**
S. Dequeker (Brussels, Belgium), B. Catry, A. Schuermans, E. Duysburgh*

P2283 ***Acinetobacter baumannii* bacteraemia in COVID-19 ICU patients in a Greek tertiary university hospital**
S. Pournaras (Athens, Greece), A. Vasilakopoulou, A. Tarpatzi, P. Karakosta, M. Siopi, S. Vourli, E. Kalogeropoulou, S. Damianidou*

P2284 **The challenge of preventing and containing outbreaks of multidrug-resistant organisms during the COVID-19 pandemic: a systematic review**
M. Seneghini (St. Gallen, Switzerland), R. Thoma, D. Vuichard Gysin, G. Scanferla, S. Haller, D. Flury, K. Boggian, M. Schlegel, P. Kohler*

P2285 **Prediction of the location of infectious droplets and aerosols in a patient intensive care room**
C. De Harenne (Liège, Belgium), G. Gambale, P. Obando Vega, A. Bertrand, B. Misset*

P2286 **Timing and aetiology of hospital-acquired bloodstreams superinfections in COVID-19 patients: how timing and etiology changed during different pandemic waves**
V. Cento (Milan, Italy), L. Tartaglione, S. Nerini Molteni, N. Ughi, J. Colombo, M. Merli, T. Langer, G. Monti, F. Di Ruscio, E. Inglese, A. Bielli, G. Casalicchio, S. Renica, A. Nava, D. Fanti, M. Puoti, R. Fumagalli, O.M. Epis, F. Scaglione, C. Vismara, A. Pani*

P2287 **Increase in carbapenem-resistant *Acinetobacter baumannii* and *Candida* spp. during COVID-19 pandemic**
V.D. Rocha (Salvador, Brazil), E.N. Da Silva, J. Azevedo, M.T. Ribeiro, M.G. Reis, J.N. Reis*

P2288 **Risk factors of nosocomial COVID-19 in a French university hospital: a case-control study**
M. Gallouche (Grenoble, France), C. Dinh, H. Terrisse, K. Gam, C. Giner, B. Nemoz, S. Larrat, J. Giai, J.L. Bosson, C. Landelle*

P2289 **SARS-CoV-2 surface contamination in University Medical Centre Ljubljana, Slovenia**
R. Tomazin (Ljubljana, Slovenia), T. Cerar Kišek, A. Steyer, N. Švent-Kucina, M. Logar, T. Mrvic, T. Štraus, M. Druškovic, G. Kavšek, T. Matos*

P2290 **Assessment of SARS-CoV-2 reinfection incidence in Iranian people within one-year follow-up**
A. Ramezani (Tehran, Iran, Islamic Republic of), M. Salehi-Vaziri, A.A. Velayati, M.H. Pouriayevali, F. Fotouhi, T. Jalali, M. Banifazl, B. Farahmand, M. Sadat Larijani, M. Tavakoli, S. Dahmardeh, A.H. Nemati, N.S. Mousavinikoo*

P2291 **Hospital COVID-19 clusters in the setting of intense surveillance and public health measures**
S. Arora (Bukit Merah, Singapore), E. Philip, J. Sim, K. Ko, I. Wee, M. Kyawt Aung, A. Myat Oo, Y. Yong, I. Venkatachalam*

P2292 **Influence of additional infection control measures during the SARS-CoV-2 pandemic on the in-hospital epidemiology of pathogens**
L.I. Dapper (Marburg, Germany), A. Dick, F. Günther*

P2293 **Bacterial pneumonia and respiratory culture utilisation among hospitalised patients with and without COVID-19 in New York City**
M. Weidmann (New York, United States), G. Berry, M. Sobieszczyk, S. Huang, J. Zucker, D. Green*

P2294 **The burden of *Clostridioides difficile* infection in COVID-19 patients: a systematic review and meta-analysis**
G. Granata (Rome, Italy), S. Al Moghazi, E. Caraffa, V. Puro, G. Tillotson, M.A. Cataldo, N. Petrosillo*

P2295 **Analysis of a citywide "Quarantine model" for staff and seniors of elderly care facilities during the 4th and 5th wave of COVID-19 in Kyoto City, Japan**
M. Nagao (Kyoto, Japan), Y. Matsumura, M. Yamamoto, K. Shinohara, S. Yukawa, T. Noguchi, Y. Tsuchido, H. Inoue, Y. Endo, T. Ikeda*

P2296 **COVID-19 vaccine uptake and its determinants in long-term care facilities: data from a multicentre cohort of LTCFs from eastern and western Switzerland**
G. Scanferla (St. Gallen, Switzerland), D. Hequet, N. Graf, P. Kohler, A. Nussbaumer, M. Schlegel, S. Kessler, D. Flury*

P2297 **Theory of the epidemic process: new Russian approach**
G. Kaminskiy (Moscow, Russian Federation), E. Karamov, J. Prostov, O. Zatsepin, S. Lebedev*

P2298 **The role of Sanger sequencing in surveillance of SARS-CoV-2 outbreaks**
M. Ibars (El Prat De Llobregat, Spain), N. Prim, A. Ramírez, M. Jiménez, A. Vilas, A. Suárez, S. Esteban, J. Muñoz, M. Canal, E. Padilla, J.J. Hernández*

PS089

12i. Public health policy, mitigation (non-pharmaceutical interventions)

P2299 **Understanding the effect of the COVID-19 pandemic on tuberculosis care in Peru: results from a mixed methods study**
J.L. Paredes (Lima, Peru), V. Picon, C. Ugarte-Gil, D. Moore*

P2300 **Medical students mobilisation against COVID-19**
M.I. Khan (Lahore, Pakistan), I. Viva*

P2301 **Impact of COVID-19 pandemic on primary healthcare services in rural Mozambique**
F.C. Castelli (Brescia, Italy), C.C. Cerini, L.T. Tomasoni, B.C. Comini, J.M. Nissai Salé Mussa, O.M. Chambule Moçambique*

P2302 **Impact of COVID-19 restrictions on gastroenteritis in children in Southern Jutland, Denmark**
J. Coia (Esbjerg, Denmark), E. Marmolin, Z.H.I.J.U. Song*

P2303 **Acceptance of SARS-CoV-2 self-testing in middle and high school students, Auvergne-Rhône-Alpes in June 2021**
A. Gagneux-Brunon (Saint-Étienne, France), J. Masson, C. Salque, E. Darlington, P. Vanhems, B. Lina, J. Beytout, O. Epaulard, E. Botelho-Nevers*

P2304 **Risk factors associated with environmental contamination by SARS-CoV-2 surround patients with COVID-19**
J.W. Seo (Gwangju, Korea, Republic of), D.Y. Kim, N.R. Yun, Y.M. Lee, M.J. Lawrence Panchali, M.S. Bang, S.Y. Hwang, C.M. Kim, D.M. Kim*

PS090

12j. Preparedness and response (COVID and future pandemics)

P2305 **Impact of the SARS-CoV-2 pandemic on the use of healthcare services**
N. Haddad (Sousse, Tunisia), Z. Dhifaoui, J. Sahli, M. Mellouli, H. Laadhari, M. Ghodhbani, T. Ajmi*

P2306 **Journey of a haematopoietic stem cell transplantation centre through COVID-19 pandemic: one-year experience**
A. Siniaev (Saint Petersburg, Russian Federation), M. Popova, Y. Rogacheva, A. Spiridonova, L. Zubarovskaya, S. Bondarenko, I. Moiseev, A. Kulagin*

P2307 **Preparedness and ressources mobilisation within the COVID-19 pandemic in a Tunisian medical intensive care unit**
M. Boussarsar (Sousse, Tunisia), K. Meddeb, E. Ennouri, R. Toumi, N. Bouguezzi, H. Zouari, I. Ben Saida*

P2308 **SARS-CoV-2 antibody levels evolution in vaccinated healthcare workers**
E. Lagarejos González (Las Palmas, Spain), M. Hernández Febles, M.J. Pena López, F. Rull Del Águila, A. Escobal Machado*

P2309 **Does hybrid education pose an infection risk in the COVID-19 pandemic?**
A. Acar (Ankara, Turkey), E. Sönmezer, N. Tülek, U. Gönüllü, S. Eskioglu, B. Sarikaya, G. Karakaya*

P2310 **Bacterial co-infection in severe and critical COVID-19 confirmed adult patients: a retrospective cohort study in a tertiary hospital in San Juan, Metro Manila, Philippines**
N.A. Chua (San Juan, Philippines), S.P.C. Fernandez, M.S. Ariola-Ramos*

P2311 **Respiratory virus multiplex formulations desiccated on commercial swab for use as cross-platform compatible EQA samples and laboratory quality controls**
P. Zhelev (Mississauga, Canada), S. Rivers, A. Alagic, J. Li, R. Mikhael, J. Auluck, S. Niyamuddin, V. Elango, M. Luscher, K. Hughes*

P2312 **How will demographic change affect the disease burden of future epidemics?**
S. Møgelmose (Hasselt, Belgium), K. Neels, P. Beutels, N. Hens*

P2313 **COVID-19 associated pulmonary aspergillosis (CAPA): evaluation of local CAPA guideline in directing diagnosis and antifungal stewardship**
L. Hawkins (London, United Kingdom), M. Basarab, T. Yau, T. Bicanic*

P2314 **Establishing and testing a protocol for decontamination of used PPE for reuse during COVID-19 pandemic, at a small tertiary care hospital in New Delhi, India; a pilot study**
V. Patwardhan (New Delhi, India), S. Bhartia, D. Das, R. Chawla*

P2315 **Practical application of the COVID-19 normality rate as a criteria for optimal time to return to in-person activities in schools, industries and football fans**
B.R.G. Couto (Belo Horizonte, Brazil), C. Starling, E. Urbano, J. Pagura, R. Nishimura, F. Belasco, R. Silva, M. Meiken, D. Maldonado, M. Aranha, F. Amaral, R. Fernandes, C. Lima, I. Walji, T. Ferreira, O.A. Oliveira, J.L. Vileti, G. Nicolai*

P2316 **COVID-19 and the mental health of ethnically diverse healthcare workers in the United Kingdom: a qualitative study**
I. Qureshi (Nottingham, United Kingdom), L. Nellums, M. Gogoi, A. Al-Oraibi, F. Wobi, J. Chaloner, M. Pareek*

P2317 **Analysis of accidentally detected COVID-19 patients and the efficacy of the triage system in a tertiary care hospital in southern Sri Lanka**
D.L.B. Piyasiri (Galle, Sri Lanka), V.H. Withanage, K.D.D.S. Wijeweera, N.S. Danthanarayana, P.K. Jayasekera, W.G.G. Senaratne, H.A. Ubeysekara, N. Ubeysekara*

P2318 **Use of a temporary patient isolation facility in reducing risk of hospital-acquired SARS-CoV-2 infection in a UK hospital**
M. Madeo (Scunthorpe, United Kingdom), L. Barker, G. Jaques*

P2319 **The COVID-19 pandemic's effect on therapeutic inertia in hypertension patients in a southern hospital in Thailand**
P. Sornsenee (Hat Yai, Thailand), V. Polathep, C. Kittisakdi, C. Romyasamit*

PS091

12k. Other societal aspects (incl. economics)

P2320 **Comparative analysis of sexually transmitted infections before and during COVID-19 pandemic**
A. Couto (Matosinhos, Portugal), F. Carneiro, M. Monteiro, M. Felgueiras, A. Read, M.J. Soares, V. Alves*

P2321 **Diagnostic error in hospitalised patients in the era of the COVID-19 pandemic and its cognitive biases**
L.F. Riaño (Bogotá, Colombia), J.S. Puerto, N. Cano, J.A. Cortes*

P2322 **Enhancing public trust in COVID-19 vaccines by reporting adverse events following immunisation**
S. Sariyan (Plovdiv, Bulgaria), V. Rangelova, R. Raycheva, A. Kevorkyan*

P2323 **Attitude towards COVID-19 vaccination and self-reported vaccination status among migrant sex workers in Florence, Italy**
M. Tilli (Florence, Italy), M. Bendi, A. Venturi, L. Andreoni, G. Nistri*

P2324 **Personal and professional quality of life among French nursing and medical staff during the first COVID-19 wave: a cross-sectional study**
F. Caron (Rouen, France), A. Grelier, O. Guérin, F. Levavasseur, F. Caillot, J. Bénichou*

P2325 **Ethnic disparities between Latin and Spanish natives in COVID-19 presentation and mortality**
B. De Dios García (Madrid, Spain), A. Pérez-Jacoiste, A. Lalueza Blanco, G. Maestro De La Calle, M. Lizasoain Hernández, A. García-Reyne, F. López-Medrano, I. Muñoz Gallego, C. Lumbreras Bermejo*

P2326 **Did SARS-CoV-2 also contaminate Swiss mass media? A retrospective analysis of French-speaking news articles during the first pandemic wave**
G. Greub (Lausanne, Switzerland), A. Sandu, B. Schaad*

P2327 **Contribution of COVID-19 to maternal mortality**
A. Baranouskaya (Minsk, Belarus), A. Varanetski*

P2328 **Impact of regional heterogeneity on the severity of COVID-19**
S. Tsuzuki (Tokyo, Japan), Y. Asai, N. Matsunaga, H. Ishioka, T. Akiyama, N. Ohmagari*

PS092

12l. Virus evolution, variants and impact

P2329 **Introduction and establishment of SARS-CoV-2 VOC Delta in central Rio Grande do Sul, Brazil**
P. Trindade (Santa Maria, Brazil), T. Y Castro, F. Romero, A. Vieira, B. Casarin, A.P. Seerig, M. Lobato, J. De Jesus, A. Schwarzbold*

P2330 **Rapid detection of SARS-CoV-2 variants in nasopharyngeal swab samples using two newly developed PCR assays**
F.M. Liotti (Rome, Italy), F. De Maio, C. Ippoliti, R. Santangelo, S. Marchetti, B. Posteraro, M. Sanguinetti*

P2331 **Mutant spectra of SARS-CoV-2 associated with disease severity**
B. Martínez-González (Madrid, Spain), M.E. Soria, L. Vázquez-Sirvent, C. Ferrer-Orta, R. Lobo-Vega, P. Mínguez, L. De La Fuente, B. Soriano, C. Llorens, R. Ramos, M. Cortón, R. López-Rodríguez, C. García-Crespo, I. Gallego, A.I. De Ávila, J. Gómez, L. Enjuanes, L. Salar-Vidal, J. Esteban, R. Fernández-Roblas, I. Gadea, C. Ayuso, J. Ruíz-Hornillos, N. Verdaguer, E. Domingo, C. Perales*

P2332 **Evaluation of neutralising antibody titres against variants of concern (VOCs) in Italian vaccinated healthcare workers**
V. Rondinone (Foggia, Italy), L. Trabace, G. Corso, L. Vitulano, A. Aceti, M. Iatarola, E. Poppa, F. Tolve, D. Farina, V. Vetritto, V. Manzulli*

P2333 **Spread of SARS-CoV-2 variants in eastern Andalusia**
A. De Salazar (Granada, Spain), L. Viñuela González, A. Fuentes López, T. Cabezas, C. Roldán, E. Clavijo Frutos, F. García García*

P2334 **Comparison of COVID-19 disease severity in paediatric patients infected with the Delta B.1.617.2/AY.X or Epsilon B.1.427/1.429 variants in Los Angeles County, USA**
J. Fissel (Los Angeles, United States), P.Y. Chen, K. Mongkolrattanothai, J. Flores-Vazquez, X. Gai, J. Dien Bard*

P2335 **COVIDBENS: wastewater-based epidemiology to monitor COVID-19 pandemic and to predict new outbreaks in A Coruña (NW Spain)**
N. Trigo-Tasende (A Coruña, Spain), M. Vaamonde, J.A. Vallejo, Á. López-Oriona, S. Rumbo-Feal, K. Conde-Pérez, I. Barbeito, M. Nasser, R. Reif, B.K. Rodiño-Janeiro, G. Bou, S. Ladra, J. Tarrío-Saavedra, R. Cao, M. Poza*

P2336 ***In silico* and *in vitro* performance evaluation of 6 DIAGNOVITAL SARS-CoV-2 mutation detection kits**
M. Isbilen (Istanbul, Turkey), S. Bag, A.Z. Orbay, E. Yolcu, E. Yildiz, O. Bilenoglu, M. Sayan*

P2337 **Circulating sublineages of the SARS-CoV-2 Delta variant in southern Spain**
M. Rodríguez-Iglesias (Cádiz, Spain), J. Machuca, C. Ibañez-López, L. Merino-Díaz, P. Panés-Ortega*

P2338 **SARS-CoV-2 variant determination using PCR-based genotyping assays and whole genome sequencing**
J. Feenstra (South San Francisco, United States), L. Koets, K. Van Leeuwen, M. Derlagen, J. Van Wijk, N. Keijzer, M. Gandhi, M. Koppelman*

P2339 **Molecular epidemiology of SARS-CoV-2 strains identified during a phase III, efficacy and safety trial of NVX-CoV2373 vaccine (PREVENT-19) in the United States and Mexico**
G. Áñez (Gaithersburg, United States), P. Roychoudhury, E. Goecker, A.L. Greninger, K.L. Kotloff, C.L. Gay, J. Nelson, W. Woo, I. Cho, G.M. Glenn, L.M. Dunkle*

P2340 **Application of a multiplexed RT-PCR-based strategy for the surveillance of SARS-CoV-2 variants**
E. Marlowe (San Juan Capistrano, United States), G. Borillo, R. Kagan*

P2341 **Presumptive diagnosis of COVID-19 lambda variant by PCR: a fast and cheap method for variant typing**
J. Rodriguez-Lozano (Santander, Spain), D. Pablo-Marcos, N. Alvarez-Matador, E. Bolado-Conde, J. Agüero, J. Calvo*

P2342 **Amplicon deep sequencing SARS-CoV-2 spike (ADS-Spike) for variant identification**
D. Castañeda-Mogollón (Calgary, Canada), C. Kamaliddin, L. Fine, L. Oberding, D. Pillai*

Poster presentation time for **13. Cases**
Monday, 25.04.2022 12:00 - 13:00

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13a. Cases viral

P2343 **Pneumomediastinum among COVID-19 patients on high-flow nasal cannula: case series**
I.G. Aspiras (Baguio City, Philippines), D. Bernard, A. De Guzman-Pamplona, S. Bartolo*

P2344 **Unilateral pneumonia presentation of COVID-19 in a single-lung transplant recipient**
F. Oliveira E Silva (Porto, Portugal), S. Lacerda Pereira, E. Branco, S. Valdoleiros, A. Silva Pinto, A.S. Santos, M. Neno, S. Xerinda, A. Ferreira, P. Figueiredo, A. Sarmento, L. Santos*

P2345 **Maculopapular skin eruptions associated with COVID-19: a case series**
A. Majauskaite (Vilnius, Lithuania), I. Kubiliute, L. Svetikas, L. Jancoriene*

P2346 **PASC as a HBV reactivation trigger, COVID-19 and its treatment role: a clinical case**
L.M. Montella (Naples, Italy), C.S. Sagnelli, P.G. Grimaldi, S.D. De Pascalis, M.P. Pisaturo, L.A. Alessio, N.C. Coppola*

P2347 **Relapsing COVID-19 in a patient on anti-CD20 antibody treatment: case report and literature review**
R. Fulchini (Münsterlingen, Switzerland), S. Burgener, P. Rochat, G. Dollenmaier, G. Benz, A.D. Kistler*

P2348 **Misidentification of Mu variant using RT-PCR mutation panels for SARS-CoV-2 variant identification**
A. Gual-De-Torrella (Galdakao, Spain), I. Alejo-Cancho, M. Urrutikoetxea-Gutiérrez, M. Gallego, C. Lejarraga-Cañas, M.J. Lopez-De-Goicoetxea*

P2349 **Mission impossible? Analysing 15,000 SARS-CoV-2 samples a day**
M.F. Sæther (Oslo, Norway), Z. Shirazi, K. Jakobsen, M. Holberg-Petersen, F. Müller, L.L. Andresen*

P2350 **Neutralisation of SARS-CoV-2 AY.43 lineage by serum from recipients immunised with three BNT162b2 vaccine doses**
L. Pace (Foggia, Italy), D. Pisanelli, D. Galante, M.R. Lipsi, D. Cipolletta, R. De Nittis, L. Serrecchia, M. Margaglione, I. Padalino, A. Fasanella, F. Arena*

P2351 **Description of nosocomial COVID-19 in a university hospital**
C. Legeay (Angers, France), C. Lefeuvre, H. Cormier*

P2352 **Carbapenem-resistant *Acinetobacter baumanii* (CRAB) outbreak: the dark side of COVID-19 critical patients**
C. Kasher (Afula, Israel), D. Sagas, M. Strauss, B. Reznik, H. Kahanov-Edelstein, A. Yanovskay, B. Chazan*

P2353 **A case of COVID-19 outbreak at a university rugby club**
M. Yamamoto (Kyoto, Japan), M. Nagao, Y. Matsumura, K. Shinohara, Y. Tsuchido, S. Yukawa, T. Noguchi, N. Kamiya, M. Kamioka, S. Matsuo, H. Yamanaka*

P2354 **Acute vulvar ulcer as presenting symptom of EBV infection**
N. Krajcar (Zagreb, Croatia), L. Stemberger Maric, G. Tešovic*

P2355 **Triple threat, severe COVID-19-strongyloidiasis-taeniasis co-infection: a case report**
B. Demot (Baguio City, Philippines)*

P2356 **A serious hepatitis E case report in the city of Rieti and its clinical and virological correlation with a 2019 cluster suggests existence of resident hepatitis E strain that needs close surveillance**
A.R. Garbuglia (Rome, Italy), M. Zaccarelli, C. Minosse, M. Scuderi, F. Gemelli, G. Tacchi, G. Giacchetti, M. Marchili, V. D'ovidio*

PS094

13b. Cases bacterial

P2357 **Combination of meropenem/vaborbactam plus aztreonam for the treatment of NDM-producing *Klebsiella pneumoniae* infections: a last resort option for challenging clinical cases**
G. Tiseo (Pisa, Italy), A. Leonildi, V. Galfo, S. Barnini, M. Falcone*

P2358 ***Lacticaseibacillus rhamnosus* bioprosthetic aortic valve endocarditis following upper gastrointestinal endoscopy**
T. Wong (Hamilton, New Zealand), M. Issa, J. Howard, H. Mcgann*

P2359 **The dilemma of culture-negative endocarditis: first report of infective endocarditis in Qatar caused by *Bartonella quintana* identified by 16s rRNA gene sequencing**
A. Al Bishawi (Doha, Qatar), H. Abdelhadi, M.R. Hasan, R. Qazi, M. Al Maslamani, A. Al Khal, H. Ahmedullah*

P2360 **Intrauterine infection and postpartum bacteraemia due to *Streptococcus gallolyticus* subsp. *gallolyticus (Sgg)*: an emerging concern**
S. Sasi (Doha, Qatar), F.B. Abid, G.J. wilson, A. Zaqout, A.P. Nair, C. P*

P2361 **Brucella pneumonia masquerading as pulmonary tuberculosis**
A. Shaukat (Doha, Qatar)*

P2362 **Difficult diagnosis of legionellosis in a COVID-19 dominated world**
A. Lupsor (Cluj-Napoca, Romania), I.A. Mazga, M.M.J. Oana*

P2363 **Successful ceftazidime-avibactam treatment of MDR-OXA-48-positive *Klebsiella pneumoniae* infection in the patient with chronic obstructive pulmonary disease: a case report**
I.N. Sychev (Moscow, Russian Federation), L.V. Fedina, M.V. Golikova, E.N. Strukova*

P2364 **Community-acquired fulminant *Clostridioides difficile* infection in a patient with purging type anorexia nervosa**
M. Bonilla (Barcelona, Spain), S. Martí, A. Carrera-Salinas, M. Torrecillas, C. Ardanuy, M.Á. Domínguez, G. Rodríguez-Sevilla*

P2365 **Atypical primary peritonitis due to *Streptococcus pyogenes* in a young patient**
J. Acosta-España (Quito, Ecuador), J. Recalde, F. Quito Ortiz*

P2366 **Spondylodiscitis caused by *Streptococcus cristatus***
J. Acosta-España (Quito, Ecuador), J. Romero-Carvajal, F. Lara Freire, F. Villavicencio*

P2367 **Microbial keratitis: a case series in a tertiary hospital**
I. Razquin Olazarán (Pamplona, Spain), A. Aguinaga Pérez, I. Arregui García, E. Erviti Machain, C. Bayo Sánchez, L. Henríquez Mederos, I. Beguiristain Calvo, C. Ezpeleta Baquedano*

P2368 **Characteristics of a chronic osteomyelitis cohor at a tertiary hospital: analysis over 6 years**
B. Flor De Lima (Berlin, Germany), F. Vale, D. Margaryan, A. Trampuz*

P2369 **Description of an uncommon case of *Nocardia* osteomyelitis**
J. Testa (Busto Arsizio, Italy), D. Radrizzani, M. Farinazzo, S.D. Garavaglia, C. Abeli, G. Chieffo, M.G. Pizzi, B. Menzaghi, M.G. Pravettoni, C.G. Zeroli, G. Brigante, F. Franzetti*

P2370 ***Vibrio vulnificus* necrotising fasciitis in upper limbs and septicaemia following pinch injury by mud crab: a case report**
A. Phitsamai (Bangkok, Thailand), W. Chueansuwan, D. Changpradub*

P2371 **Acute bacterial meningitis due to *Klebsiella pneumoniae*: a case series**
S. Pinsai (Prachinburi, Thailand), W. Eaimworawuthikul*

P2372 **Infantile botulism in a developed country: a non-extinct disease, a national study in Israel**
O. Scheuerman (Petah Tikva, Israel), B. Goldberg, D. Danino, Y. Levinsky, I. Levy, R. Straussberg, H. Dabaja-Younis, A. Guri, Y. Almagor, D. Tasher, S. Blum, D. Elad, Z. Baider*

P2373 ***Coxiella burnetii* outbreak in northern Italy, 2021**
A. Chiesa (Brescia, Italy), C. Onza, M.G. Zuccaro, F. Conforti, E. Kofler, G. Moretto, P. Christian, T. Agate, M. Giulia, S. Paola, T. Alexander, S. Liana, S. Najada, M. Alberto*

P2374 ***Listeria monocytogenes*** **hypopyon**
L. Kriegl (Graz, Austria), G. Seidel, R. Robert*

P2375 **Middle East pus on the brain**
A. Al Balushi (Shenas, Oman), M. Chaponda, V. Leelamani, Z. Al Breiki, A. Al Rashdi, N.J. Beeching*

P2376 ***Ricketssiae typhi*** **cluster in an island in Greece**
M.P. Zorzou (Chios, Greece), I. Kyriakodis, A. Lazaridou, F. Kontopidou, A. Pitsikouli, M. Chatzigiannaki, E. Makridaki, A. Kanli, D. Chochlakis, A. Psaroulaki, D. Pervanidou*

P2377 **Fatal outcome of a septic *Vibrio parahaemolyticus* infection in a German resident: characterisation and genetic allocation of the isolate for risk evaluation**
J.A. Hammerl (Berlin, Germany), C. Jaeckel, J. Nekat, C. Goellner*

P2378 ***Staphylococcus pseudintermedius*** **infection of a Permcath site of a haemodialysis patient that works in a veterinary clinic and has multiple family pets: transmission from family dog**
L. Blondeau (Saskatoon, Canada), J. Rubin, H. Deneer, R. Kanthan, S. Sanche, A. Halpin*

P2379 **Hepatic brucelloma: an unseen infection from an endemic area**
D.S. Javed (Karachi, Pakistan)*

P2380 **There is always a tick amongst us: a case of *Anaplasma pneumonitis***
M. Alsoubani (Boston, United States)*

P2381 **An unusual pulmonary infection: don´t forget *Actinomyces* spp.**
A. Figueiredo (Lisbon, Portugal), M. Maia, I. Monge, S. Schäfer, E. Aliyeva, C. Portugal, R. Melo, L. Sancho*

P2382 **Melioidosis: an Indian experience over four years, a single-centre retrospective observational study**
S. Shetty (Mumbai, India), A. Sunavala, L. Drego, M. Rai, V. Agashe, A. Menon, I. Mohammad, V. Vaidya, U. Agrawal*

P2383 **A rare case report of brain abscess due to *Nocardia paucivorans* in an immunocompromised patient**
A. Michelaki (Athens, Greece), M. Kamperogianni, M. Orfanidou, E. Petrou, A. Tsolaki, E. Papadogeorgaki, E. Vagiakou*

P2384 **A challenging case of immune reconstitution inflammatory syndrome in Whipple's disease**
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CGR Cases

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C. Costescu (Bucharest, Romania)*

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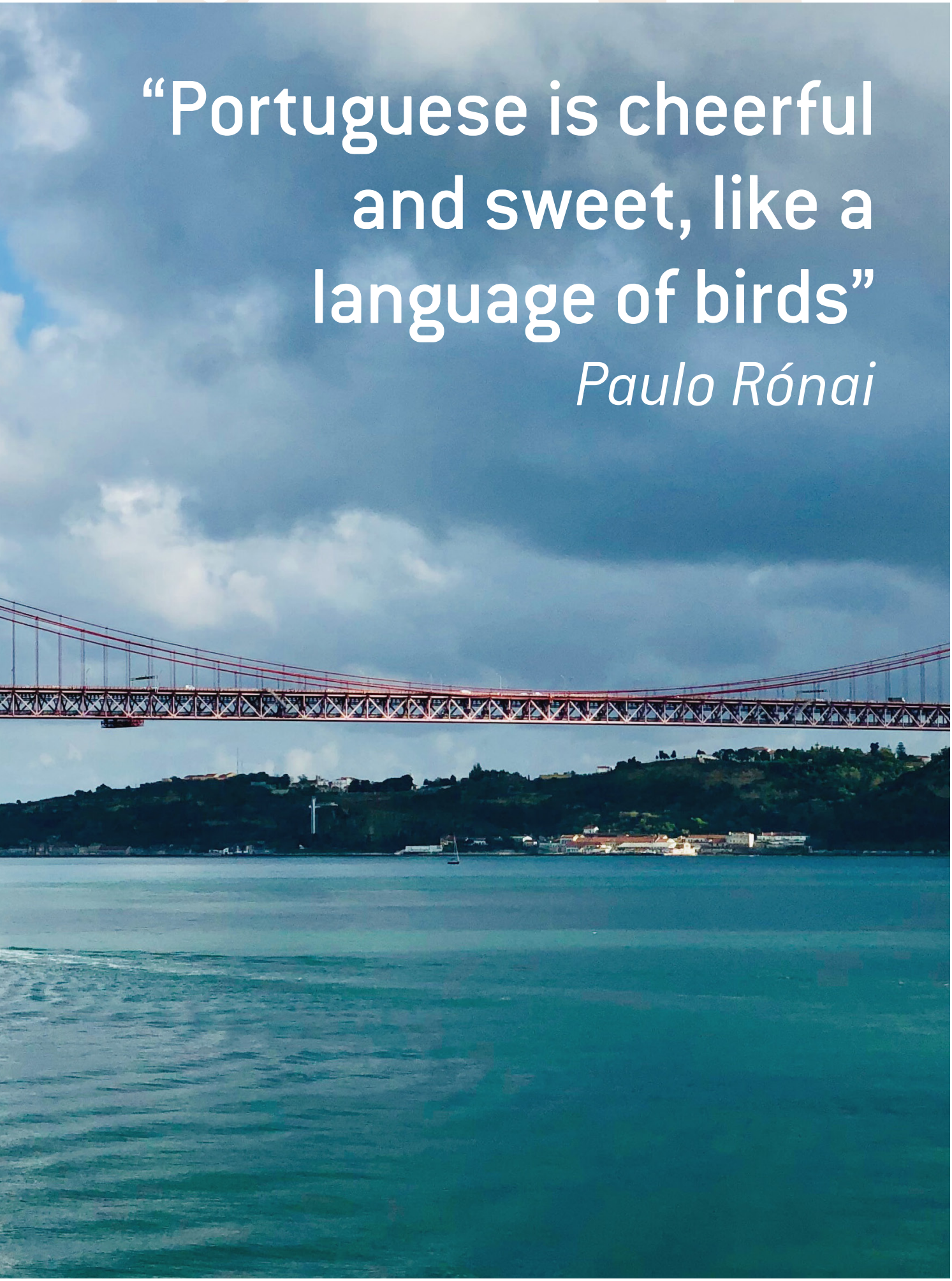
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Instructions for Speakers and Authors

The Speaker Ready Room

The Speaker Ready Room is located PT Meeting Center, Foyer Level 1.

Opening times:

22 April 13:00 – 20:30
23 April 07:30 – 19:30
24 April 07:00 – 18:00
25 April 07:00 – 18:00
26 April 07:00 – 15:30

Paper Poster Sessions

The Programme Director is pleased to give all poster presenters the possibility to present their work also onsite. Therefore, each poster will receive an onsite spot. Posters that are not hanging during the allocated times can be found online with help of a QR Code that will be displayed on the poster board.

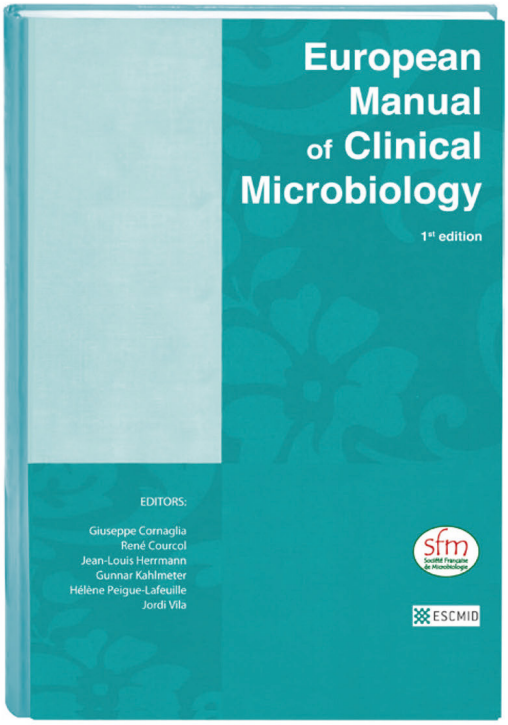
Each Poster will be hanging on two congress days and will be presented in one slot of 1h.

The authors, that are onsite at ECCMID, are requested to stand next to their poster during the allocated presentation time. The times set for mounting and removal must be considered. All posters left hanging beyond the given removal times will be disposed of.

Date	Time WEST	Happening	Poster Categories
Saturday, 23.04.2022	**08:00 - 10:00**	Poster mounting time	2. Bacterial infection & disease 3. Bacterial susceptibility & resistance 5. New antibacterial agents, PK/PD & stewardship 8. Healthcare-associated infections, infection prevention & control 9. Experimental microbiology, microbial pathogenesis & biofilm
Sunday, 24.04.2022	**12:00 - 13:00**	Poster presentation	
Sunday, 24.04.2022	**17:00 - 18:00**	Poster removal time	
Monday, 25.04.2022	**07:00 - 09:00**	Poster mounting time	1. Viral infection & disease 4. Diagnostic microbiology 6. Fungal infection & disease 7. Parasitic diseases & global health 10. Immunology & vaccinology 11. Other 12. COVID-19 13. Cases CGR Cases
Monday, 25.04.2022	**12:00 - 13:00**	Poster presentation	
Tuesday, 26.04.2022	**15:00 - 16:00**	Poster removal time	

Electronic versions of posters, submitted by the presenter for publication can be viewed until 3 months after the congress on the ECCMID Online Platform (online.eccmid.org)

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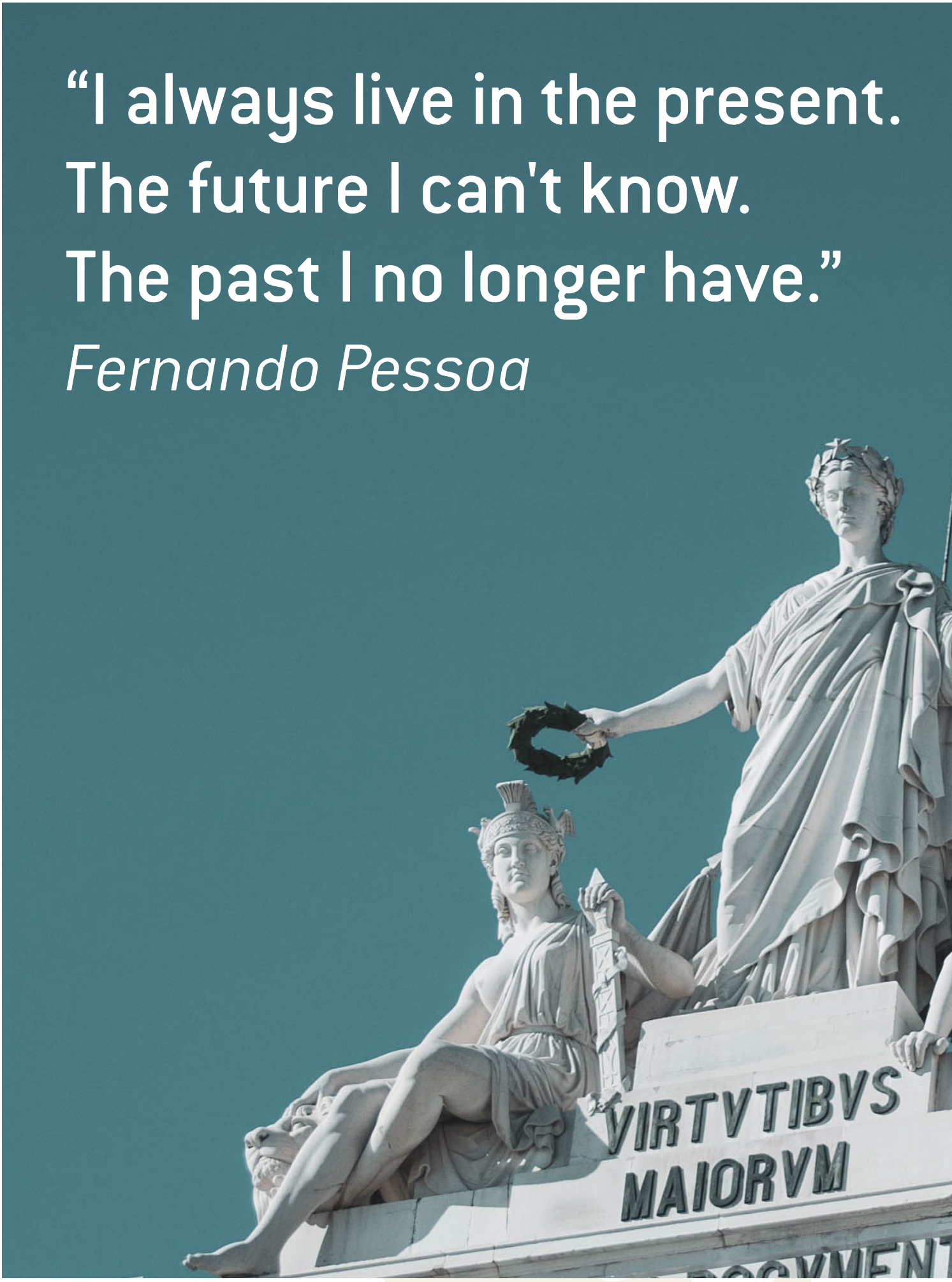
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“I always live in the present.
The future I can't know.
The past I no longer have.”
Fernando Pessoa




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Congress Information

Welcome Ceremony and Welcome Reception

The traditional **Welcome Ceremony** will be held on Saturday, 23 April, at 18:45 in our plenary Hall A at the Altice Arena Lisbon.

All participants – delegates, exhibitors, representatives – are invited to attend. Participation is included in the registration. You need to wear your badge for the opening ceremony and the reception.

Opening programme:

18:45 Welcome by ESCMID President **Maurizio Sanguinetti**
19:00 Performance **Barbara Tinoco**
19:15 Welcome by ECCMID Programme Director **Jacob Moran-Gilad**
19:30 Performance **Barbara Tinoco**
19:45 **Welcome Reception**



General Information (in alphabetical order)

App
Navigate through the entire 32nd ECCMID programme and all important information on your mobile phone or tablet. View sessions by day and category, and see the list of abstracts being presented. Create your individual scientific schedule and save it to your calendar. Locate all session rooms and your favourite exhibitors on the floor plans. Get in contact with your colleagues via the integrated chat tool and comment on all sessions and presentations.

Download the "ESCMID" app from the iOS or Android app store for your mobile interactive congress experience. The ECCMID 2022 event space will be available in Spring 2022.

Art Gallery
Following the success of ECCMID 2021, ESCMID is pleased to host the ECCMID Art Gallery once again for ECCMID 2022! We collected a plethora of fantastic original art pieces from around the ESCMID community ranging from poetry to agar art which will be exhibited onsite in the ESCMID World Village and also organised in an online art gallery. Thank you to everyone who submitted and enjoy the creative side of ESCMID!

Badges
All participants and exhibitors are required to wear their badges throughout the congress. Access to the scientific sessions will only be possible with your personal name badge. We charge 100 EUR for replacement of a lost badge. For any name change, we charge a fee of 50 EUR.

Bank/ATM
Banks are open to the public between 8:30 – 15:00 (Monday-Friday). There is a national network of ATMs, identified as MB (Multibanco), where you can take cash out 24/7. Two ATMs are available in the FIL: one inside the lobby, close to the central entrance doors, and another inside Pav. 3 between the glass doors entrance and the Pavilion itself. In Altice Arena there is one Multibanco (MB) in the arena level, near one of the bars in Hall A. As a note, Monday 25 April 2022 is a national holiday so access may be restricted on this day.

Cameras and recordings
Electronic recording or excessive photography of presentation slides is prohibited in all lecture halls during all sessions.

Certificates
Certificates of attendance (not including CME credits) are available from Monday morning, 25 April 2022. They can be printed at the print stations in the registration area, using the barcode on your name badge. For CME Certificates please check CME Accreditation.

Climate
April is a wonderful time to visit Lisbon, a city filled with eye-catching architecture dating back from many different periods of history. Welcoming you with an average of 19.8 degrees Celsius (67.6°F). Perfect to see the colourfulness of the city and to enjoy the many sights from up high.

Cloakroom / Luggage Storage
A cloakroom will be available in the right entrance of the Altice Arena.
Opening hours:
23.04.2020 07:30 - 22:00
24.04.2020 07:00 - 18:30
25.04.2020 07:00 - 18:30
26.04.2020 07:00 - 16:00

CME accreditation
The 32nd European Congress of Clinical Microbiology and Infectious Diseases, Lisbon, Portugal, 23/04/2022-26/04/2022 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 30 European CME credits (ECMEC®s). To collect a CME Certificate participants need to connect to the CME Platform (cme.eccmid.org) and log in with their ESCMID account. The points of the sessions need to be claimed individually and a general survey needs to be filled out until 10 July 2022.

Congress registration
Upon receipt of the correct registration fee, each participant has received a confirmation of registration by email. Please bring your registration confirmation with the barcode and go directly to the badge self-print stations in the registration area of the congress centre.

Delegates who are booked through a group registration will receive the information on how their badge and congress material will be distributed through their group coordinator.



General Information (in alphabetical order)

For a new congress registration please follow the signs to "New Registration" within the registration area. You may pay by credit card (Visa, MasterCard, Amex). Cash payments in euro will only be accepted at the secretariat.

Congress venue

ALTICE ARENA
Rossio dos Olivais, Lote 2.13.01 A
1990-231 Lisbon
www.alticearena.pt
FIL – FEIRA INTERNACIONAL DE LISBOA
Edificio FIL, Rua do Bojador, Parque das Nações
1998-010 Lisbon
www.fil.pt

COVID-19 Safety Measures

ESCMID is closely monitoring the situation and is keeping in close contact with the local health authorities and the venue to ensure the health and safety of all onsite participants of ECCMID 2022 in Lisbon, Portugal. Masks need to be worn at all times in the congress area (except for when eating or drinking) and we encourage all attendees to keep some distance between each other with helpful stickers all around the congress area. We will also have a special cleaning team that will circulate both venues disinfecting surfaces and areas throughout the congress times.

Currency

All official prices are indicated in euro (EUR, €), the official currency of Portugal. All major credit cards are accepted in most hotels, restaurants and shops.

Electricity Supply

In Portugal, power plugs and sockets are of type F and follow the European standard of 230V and 50Hz. It is recommended for attendees from the USA, Canada and a large part of South America that have a 100-127V system, to include a power plug adapter/ voltage converter.

Emergency

In the event of an emergency, dialling 112 from any phone will connect you to the police dispatch center. The dispatch center redirects the call accordingly for the type of emergency to the appropriate emergency services.

Escape room

As part of the first online ECCMID, we introduced a virtual escape room which gathered a lot of great feedback. We are happy to continue the ECCMID escape room this year with a new story! The escape room will be in pavilion 4 and groups can book their timeslots onsite during the opening hours. Take on the challenge together testing once again your infectious disease knowledge and puzzle solving skills.

Opening hours Escape Room:
23.04.2020 09:00 - 18:00
24.04.2020 08:00 - 18:00
25.04.2020 08:00 - 18:00
26.04.2020 08:00 - 15:30

ESCMID Booth

During the Congress, the ESCMID staff will welcome you at our ESCMID booth in the ESCMID World, located in Pavillion one of the FIL. Please drop by for questions, information or simply to say "Hello".

ESCMID Manual

The ESCMID-SFM Manual of Clinical Microbiology is a jointly produced hard-copy publication by ESCMID and SFM. In 2010 a popular French Manual of Microbiology was published by SFM. The new manual is based upon the original French manual, but has been updated and adapted for Europe. There are 52 chapters covering essential information in clinical microbiology. The launch of the Manual was at the ECCMID 2012 in London. On-site, the manual is available for purchase from the ESCMID Booth.

At ECCMID 2022 it will be the last time that the book is for sale. You'll be able to purchase a copy onsite for 10 EUR while supply lasts, so be sure to secure your copy there.

Hotels

The official hotel partner for ECCMID 2022 is Congrex Switzerland. Please contact the hotel team at hotel.eccmid@congrex.com. Please avoid booking through websites that claim to be working for ECCMID, in case of doubts, please contact us. ESCMID is not responsible for fraudulent bookings that have made though any other channel than the official ECCMID provider.

Integrated Symposia

For the list and session details of integrated symposia organized by commercial companies, please refer to the Integrated Symposia and Exhibition Guide or the mobile website of the congress.

Industry Liaison

The Industry Liaison can be contacted via e-mail at eccmidindustry@escmid.org.

Insurance

The congress organisers accept no liability for any injuries sustained, or any property loss or damage during, or as a result of, the congress. Please ensure that your own insurance is valid.

Lactation Room

A lactation room will be available, where hygiene supplies and private spaces are provided for parents who are registered participants in the congress. Upon entering the PTMC building, on your right, you will find the Lactation Room. Entry to the lactation room is subject to all regular congress entry regulations (congress badge and wearing of a face mask). Feeding children are permitted to enter the congress venue with their parent to travel to and from the lactation room only. Please note that children are not permitted in any session halls, exhibition areas or adjoining spaces at ECCMID.

Language

The official language of the congress is English. Simultaneous translation will not be provided.

Lost and found
Items that are found at the event will be collected by the ECCMID staff and will be kept at the Registrations Service Desk. Should you lose or find any personal belongings, we kindly ask you to visit this desk to report or collect the items.

Mobile Phone Policy
Please respect the meeting policy and switch your mobile phones to silent in all sessions.

Newsletter
For updates and further information subscribe to our ESCMID Newsletter.

Parking
The closest carpark to the Altice Arena is the TEJO Park, right at the end of Rua do Bojador. The Parque das Nações also has several other parks where you can leave your vehicle.

Photographs
The official ECCMID photographers and video crew will be on-site during the whole event and you may be filmed or photographed by the organiser or a representative thereof. ECCMID or its associates reserve the right to use your image for promotional purposes on its website, print media or in other advertising on other unlimited channels. By attending the ECCMID 2022, you consent and agree to this.

Pipeline Corner
The Pipeline Corner has become a regular and popular ECCMID session type where small and medium-sized enterprises (SMEs) from Europe and overseas present their research projects and product pipeline. For 2022, two Pipeline Corner sessions are planned, one for Diagnostic Developments taking place 23 April, and one for Therapeutics Development taking place 24 April. You can see the programme details in the Scientific Programme.
For more information, please contact science@escmid.org.

Prayer Room
You find the prayer-rooms in the Altice Arena. Please check the congress map for the specific location, there is also signage guiding you along the way.

Press Centre
Press registration is complimentary and includes all privileges of regular registration. Members of the press who qualify for press registration and who have been pre-registered may contact the onsite registration at the congress venue to get their press badge. Only journalists or reporters, writers or editors with credentials from a journal, newspaper, magazine, radio or TV station, wire service, or other news organization can be accredited. Freelancers must present proof from a news organization that assigned them to cover the meeting. Freelancers wishing to cover ECCMID on a speculative basis are asked to request accreditation in writing, using their letterhead. Please note that delays may occur for journalists on-site that have not pre-registered. For questions and applications, please contact eccmidinfo@escmid.org.

Printing Services
It is recommended that paper poster presenters bring their posters already printed. Printing services are available onsite by Well Good Portugal, and are the responsibility of the participant.
Opening hours:
Monday - Sunday: 09:30-19:30 (during exhibitions)
For more onsite printing information,
please contact wellgoodportugal@gmail.com

Publication – ESCMID eLibrary
All accepted abstracts, electronic versions of posters as well as presentations are accessible on the ECCMID online platform for the first 3 months before being moved to the ESCMID eLibrary where members will be able to access the material for a year before it is opened to the public. There is no printed abstract book or CD available. You can already find previous year's material in the eLibrary now. You can access the eLibrary at www.escmid.org/eLibrary.

Social Media
Receive up to date information on what is being presented in lectures, discussed about posters and more by following the official ESCMID Social media accounts! Follow "ESCMID" on Twitter, Facebook and LinkedIn and join the conversation using #ECCMID2022.

Travel Grants
ESCMID awarded 120 ECCMID Travel Grants to the best abstracts from young scientists who applied. Further details and criteria can be found on the ESCMID website.

Transport
Airport - FIL & Altice Arena:
The subway red line takes you from the airport to the congress venue (stop "Oriente"). The journey lasts less than 10 minutes and this line departs every 7 minutes. Also, the bus line 744 runs every 15-20 minutes between the airport and the congress venue (stop "Est. Oriente"). The bus ride takes around 10 minutes.
City centre – FIL & Altice Arena:
The congress venue is located approximately 30 minutes by public transport from Lisbon city centre. Its proximity to Orient Train Station guarantees excellent connections to the city centre by train, bus and subway.

Water
Tap water in Portugal is safe to drink and the water in Lisbon is of an excellent quality. Attendees are encouraged to bring their own water bottles to the congress to reduce waste.

Wi-Fi
During ECCMID 2022 a complementary wifi is offered in all areas. To provide the best service, this wifi is only available on 5GHz. There will be no wifi on 2.4GHz available.

YouTube
On the day sessions, impressions and interviews will be uploaded on our YouTube channel.

General Information

Travel to the Venue – Oriente station

Underground the subway stop Oriente of the Vermelha S.SEBASTIAO line is right outside the venue. It takes you to/from the city centre (Santa Apolonia). Taxi for visitors who want to take a taxi to Altice Arena, journey times and prices are found below:

From Lisbon Airport: A taxi from the airport will cost about 7 - 9 EUR and take around 5 minutes with little traffic.
From the city centre: A taxi from the centre will cost 10 - 12 EUR, take around 12 minutes.

Car
GPS: 1990-231 Lisbon, Rossio dos Olivais, Lot 2.13.10.

There is Parque Tejo an under covered parking which will offer 4 hours parking packages for 8 EUR, a 2 minutes walk away from Altice Arena.

Transfer from/to the airport to ECCMID 2022

The Subway line Vermelha AEROPORTO takes just 6 minutes to Oriente station. The subway operates daily from 06:30 a.m. to 1:00 a.m. The Oriente station is approximately 800 meters / 9 minutes walk from the Altice Arena. The prices are for a single ticket 1 - 6 EUR.



Experience Lisbon

Lying in the western Iberian Peninsula at the meeting of the River Tagus and the Atlantic Ocean, Lisbon is the westernmost capital city in continental Europe. With a warm Mediterranean climate, the Portuguese capital is one of the warmest metropoles in Europe during the winter months. As one of the oldest cities in the world, Lisbon is full of historical landmarks and boasts a robust culture.

Fado

Declared in 2011 a part of the UNESCO intangible Cultural Heritage, the famous Portuguese music style Fado originated in the Alfama district and is a must to experience. With more than 40 Fado houses throughout the city, as well as the Museum of Fado, there are plenty of opportunities to enjoy the musical tradition. – Fado is usually performed by a solo singer, male or female, accompanied by an acoustic guitar and the twelve-stringed, pear-shaped cittern.

The food of Lisbon

Lisbon is a dream destination for foodies, wine lovers, critics and the curious. From modern restaurants to century-old tascas, there is always a table set and waiting for you. The famous salted cod, bacalhau, in its various forms, is not to be missed. The seafood and fresh fish bring the Atlantic onto your plate, either in a sophisticated way or simply straight from the grill. The cafés, where so many Portuguese writers gathered together, have outdoor seating with stunning views, endless hours of enchanting sun and interesting wine lists to get to know Portugal's greatest riches.

History

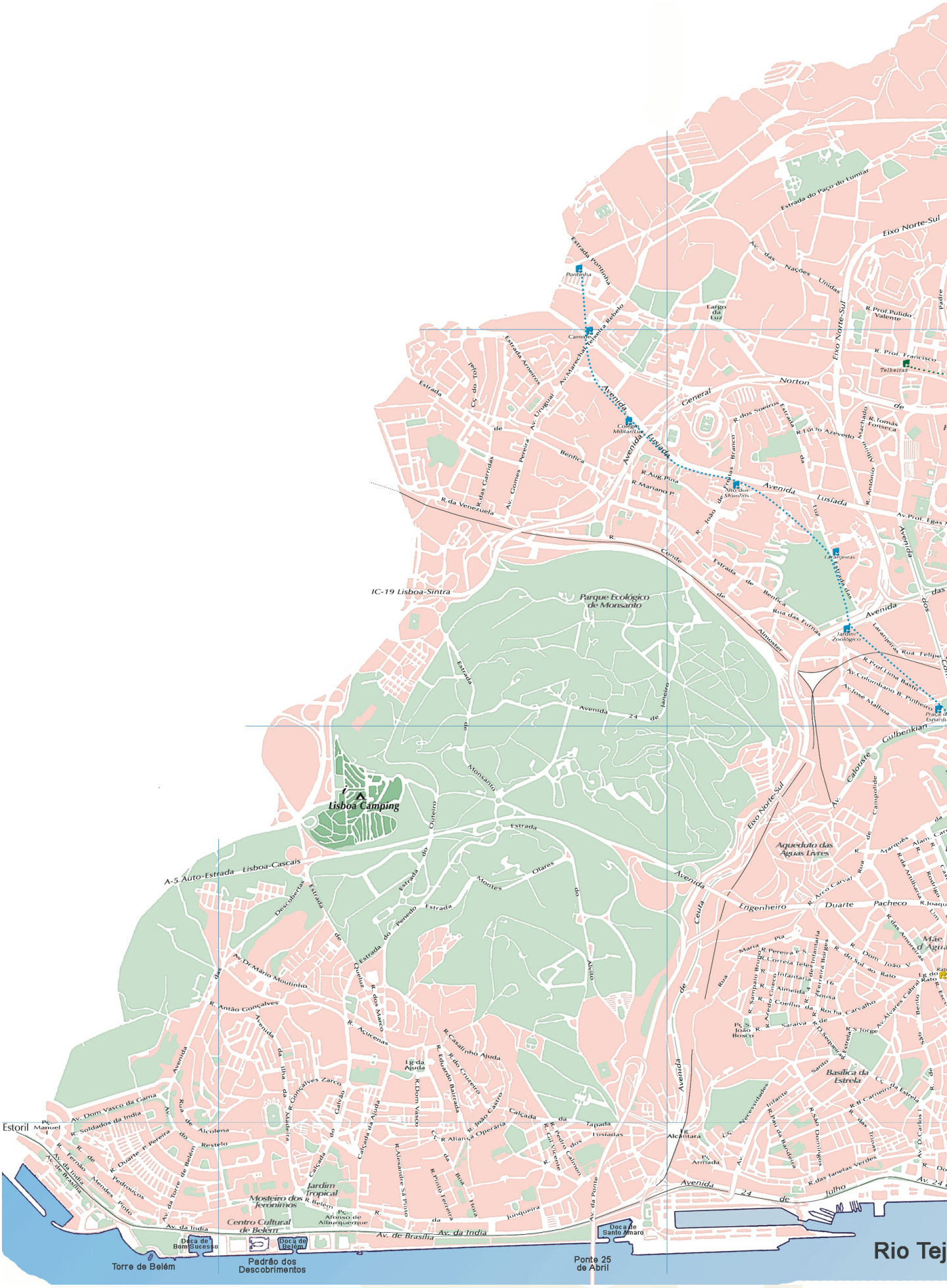
Lisbon is the perfect city break, not just because it combines a European capital, the beach and nature all into one, but because it also offers a set of characteristics you won't find anywhere else. You won't find so much art below your feet in any other city, let alone in the impressive shape of calçada portuguesa, the art of stone paving which visitors find so impressive. If you can manage to raise your eyes from ground level to the walls around you, you will also see that the amazing art of tile making (azulejaria) has plenty to be proud of. In almost every building and street you can find worthy representatives of the geometric art style that reached its zenith in Portugal.

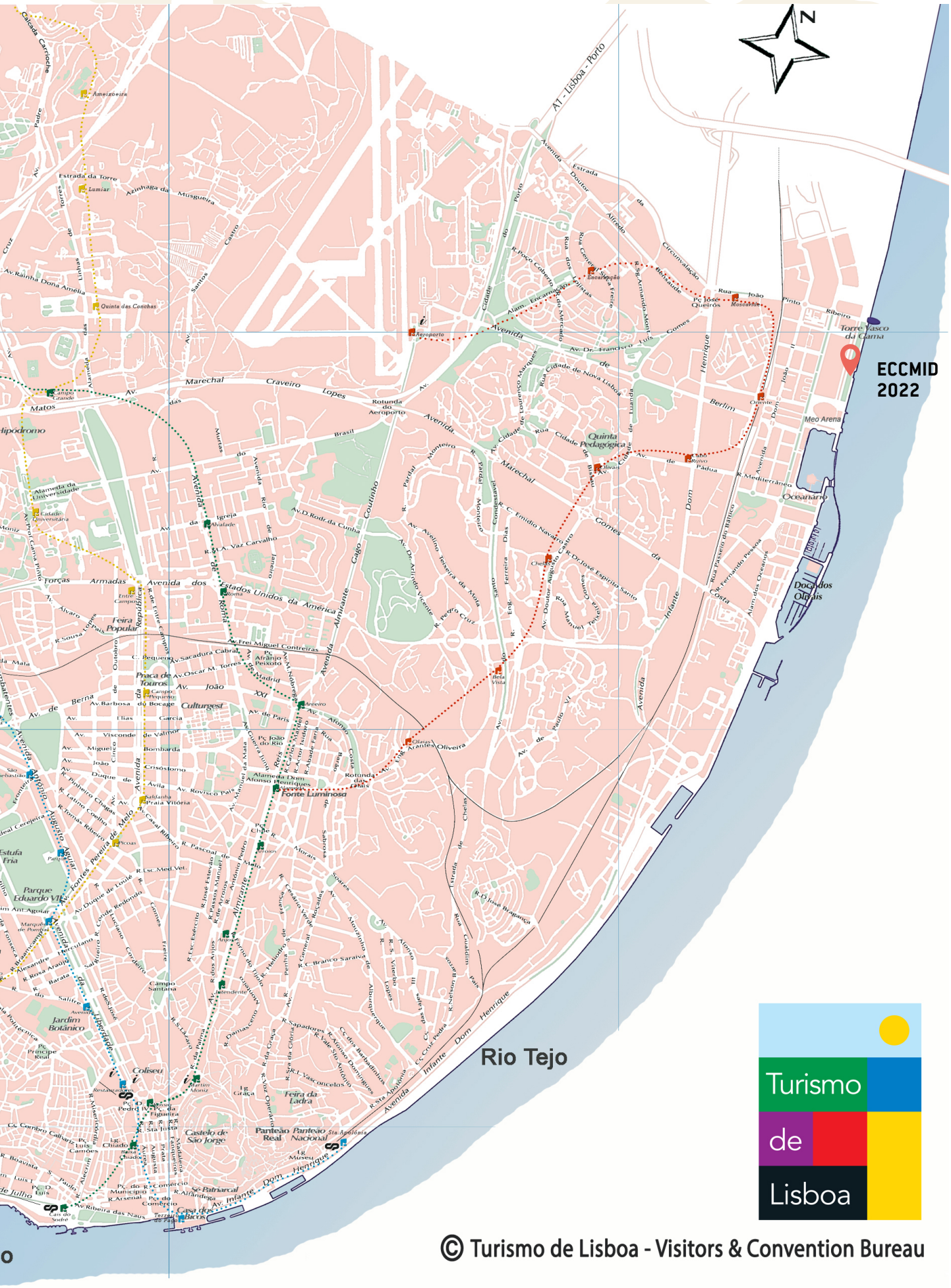
Manueline Architecture

At the end of the 15th century, during the transition from the Gothic era to the Renaissance, an architectural style influenced by Moorish elements emerged in palaces in Lisbon and Sintra, as well as in the construction of the monastery of Jerónimos and Torre de Belém. During the reign of King Manuel I, countless monuments, windows and doorways were built that were influenced by a Naturalist style responsible for more architectural structures than decorative motifs. The size and depth of the arches and ornate framing cornices, facades and vaults distinguish the Manueline style, which began to wane with the Renaissance from 1517 onwards. The style is part of the history, richness and glory of this unique period in Portuguese history.

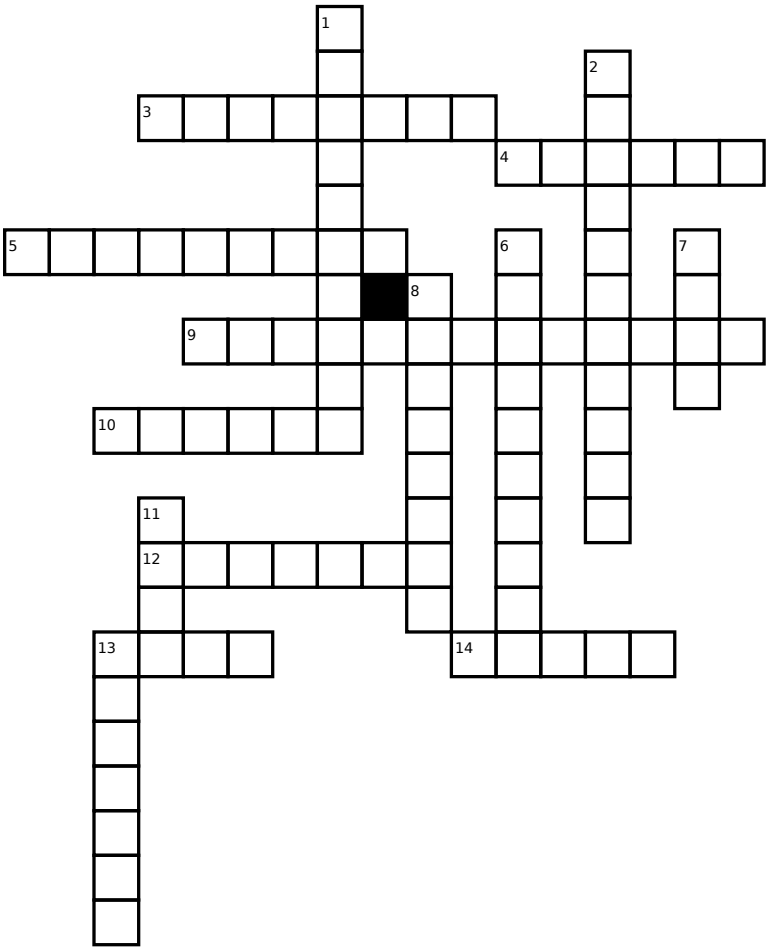


General Information




N
ECCMID
2022
Rio Tejo
Turismo
de
Lisboa
© Turismo de Lisboa - Visitors & Convention Bureau

Brain Teasers



Down:

1. Calouste _____, amassed thousands of works of art, able to view at a museum
2. Lisbon is Europe's _____ capital city
6. in 1755, this destroyed Lisbon
7. Best way to traverse the hilly neighbourhood
8. Small versions of dishes, usually as starters
11. Music style dating back 200 years
13. Lisbon is home to many _____

Across:

3. Portuguese national dish dating back to the 16th century
4. Portugal is famous for its _____ sidewalks
5. Architectural style found in various buildings
9. Describing Portugals weather
10. The Belem Tower used to be a _____
12. Ornamental design covering the walls
13. Portugal is the highest producer of _____
14. Lisbon is between _____ hills

To check your answers, scan the QR code!

Can you find the 5 mistakes in the picture on the right?





N X Y O W Q O E U G F D X J G P T B G K X N Q I X B L Z M H
P N B E V Z S N J V W K O Q M U C O I F X W W Q J O G S Q S
T I U N S N H E Q Y D W P Y F E Q W M S W G T U D A F M D Y
V C Z L E X K F P E B T U F W O H H M X I L G W Q G C U R Z
E Y L J I X Q P X I N R P L X D H S U N G Y U T K D O B A T
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N F D X Q N F T S E Z E G Z P Q A N O R H F D M T S K D Q N
S V W D L F N E B C O P M K U G H Z L B K C D L N R K B P W
G H U H P W W E C W T A P I K P A F O X G I I Q C O B A H E
S V F M O I L L T T H A B A O G P I G S A X M X Y A N B W K
T L X Y G D J T E A I Q U B D L S X Y Y K L N Q V D P L I W
M R G Y W E X C X N H O J R G R O I L Y T F H Z D H N B N L
C E S E W U D F P O X Z N N Q X V G M V N X X Y Z Q L M E T
P L J P N N I X C C Q L A S Z H O K Y I A W H W R D E L O C
J X I A X Y S X O Q E P M J P Q C W F D C C T I X G N F C V
K S Q N V A X U U D G U A E D W M R U J W R C G H P K D S C
P G C O U M E I T I A R X R P M L C H K X H O I U C Y H K A
T H E S I A A G B A Y Q I H A M Y E D L H C M B N G F T W C
X E Z O T W V R R G K L Q H R S J C J S D F B D I O H S I N
R T F C L P K W E N X I L F C M I L O H I F J D A O L B D S
D N B O H D A T A O I E A R M U Q T U L Q J V I T X L O E R
R O I M D J U I K S H T X P I D W L E O O M M X K B R O G B
U M O I E I E Z L T V G I Y H K L R E L X G S C S W V K G Y
Q T F A E G I X J I W W N B U H N R I P T U Y K C H D S L Y
M U I L W F Y X K C M F E I E E W R Q S B Q H K F I P A A A
J X L D K U H L T S O L Y Z R D Q E V A Z E D K P P Q B X O
E T M R M G V O B T P D T K J H D D J J P H Z S F P F K E W
Y S S Q I B W C U C P G D Z D J Y A J N K Q A G B L L I Q V
G A T N P U O K Y K U O R D H L Y M E O E G J B E B R O G Q
A M A K L X Y J J X G L S F H X C Y U L D B I B N F F W J R

Epidemiology	Microbiology	Vaccinology	Diagnostics
Nosocomial	Immunology	Infections	Parasite
Outbreak	Mycology	Lyme	Biofilms

Notes

ESCMID EVENTS 2022

Online events

Emerging laboratory and point-of-care technologies for detection of AMR and bacterial infection in veterinary medicine
9 March 2022, Online

Safety of targeted and biological therapies: an Infectious Diseases perspective
16 – 18 March 2022, Online

Ethical Challenges in Infectious Diseases
9 May – 9 June 2022, Online

COVID-19 and Liver Disease
1 – 3 June 2022, Online

Personalised phage therapy: basic principles of monitoring and treatment
7 – 10 June 2022, Online

Moving beyond single species outbreaks: the role of mobile genetic elements
7 – 8 July 2022, Online

Onsite events

Diagnosis and treatment of mycobacterial infections
24 – 25 March 2022, Nijmegen, Netherlands

Pre-ECCMID course on Antimicrobial Stewardship
21 – 22 April 2021, Carcavelos (Lisbon), Portugal

Optimised dosing of antibiotics – understanding PK/PD, clinical breakpoints, and therapeutic drug monitoring
21 – 22 April 2021, Oeiras (Lisbon), Portugal

The challenge of persistent biofilm-related bone and joint infections
28 – 29 May 2022, Zurich, Switzerland

20th ESCMID Summer School
2 – 9 July 2022, Rome, Italy

Vaccination of the elderly in COVID-19 times
12 – 13 September 2022, Venice, Italy

Measles in the 21th century: is eradication possible and how ?
21 – 23 September 2022, Paris, France

New applications in molecular microbiological diagnostics
Technical workshop on 16S rRNA gene amplicon analysis
26 – 29 September 2022, Maastricht, Netherlands

Migration and Health: a world on the move
26 – 30 September 2022, Brescia, Italy

Antimicrobial susceptibility testing with EUCAST criteria and methods
27 – 30 September 2022, Tallin, Estonia

Future ECCMIDs

33rd ECCMID Copenhagen, Denmark
15 – 18 Apr 2023

34th ECCMID
27 – 30 April 2024

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