

Scientific Program

[Program at a Glance](#)[Interactive Program](#)

****Program remains subject to change. For the latest version, please refer to the interactive program.**

The IUMS Board has decided to take IUMS 2022 fully online.

IUMS 2022 will bring together scientists from all over the world and you will expand your network of colleagues and meet the experts in Microbiology. All sessions will be fully live and will include dedicated time for Q&A with the audience.

IUMS Committees and the congress organizers are working together to build an exciting congress program. It will be covering the fields of:

- Virology (VIR)
- Bacteriology & Applied Microbiology (BAM)
- Mycology & Eukaryotic Microbiology (MEM)

[What means Going Fully Online?](#)

To review the scientific program and the confirmed speakers, please click on the drop-down menu below:

Opening Ceremony & Plenary 1: Climate Change and Microbial Life

Prof. Sarah Gurr, Exeter University, Exeter, UK

Plenary 2: Complex Systems, Disturbances and Disruption

Prof. Stuart Kauffman, University of Pennsylvania, Institute

for Systems Biology, Philadelphia, USA
Theme: “Science communication as an antidote to misinformation”

Moderator:

Prof. Jeffrey Almond, The Sir William Dunn School, University of Oxford, UK

Panelists:

Dr. Stephanie Kivlin, University of Tennessee, USA

Prof. Jeremy Farrar, Director at the Wellcome Trust, UK

Prof. Marion Koopmans, Erasmus Medical Centre Rotterdam, the Netherlands

Bridging Session 1: Microbiomes and virome in the Anthropocene

VIR: Prof. Li Deng, Institute of Virology, Neuherberg, Germany

BAM: Prof. Nicola Segata, Principal Investigator at the CIBIO Department of the University of Trento | Principal Investigator at the European Institute of Oncology in Milan, Italy

MEM: Prof. Stephanie Kivlin, University of Tennessee, Knoxville, USA

Bridging Session 2: Innate Immunity First-Line Defense Against Viruses, Bacteria and Fungi

VIR: Dr. Sonja Best, Rocky Mountain Laboratories, NIAD, NIH, USA

BAM: Prof. Suzan Rooijakkers, UMC Utrecht, the Netherlands

MEM: Prof. Mihai Netea, Radboud University Medical Center, Nijmegen, the Netherlands

Bridging Session 3: Return After a Period of Absence: Dormancy, Persistence and Relapse

BAM: Prof. Yousef Abu Kwaik, University of Louisville College of Medicine, USA

MEM: Assoc. Prof. Chris Wong, China, University of Macau, China

Bridging Session 4: The Development of Resistance: Host-Pathogen Arms Race

VIR: Prof. Graciela Andrei, Catholic University Leuven, Belgium

BAM: Prof. Kimberly Kline, Nanyang Technological University, Singapore

MEM: Prof. Pablo Antonio Chong Aguirre, Centro de Investigaciones Biotecnológicas del Ecuador, Guayaquil, Ecuador

Bridging Session 5: Emerging Diseases in “One health” Context

VIR: Prof. Lin Fa Wang, Duke-NUS Medical School, Singapore

BAM: Prof. Ulrich Dobrindt, University of Muenster – Germany

MEM: Prof. Francois Balloux, University College London Genetics Institute, London, UK
Workshop: Virus Discovery and Virome Studies

Dr. Darren Obbard, The University of Edinburgh, UK

Workshop: Antiviral immunity

Dr. Tineke Cantaert, Institut Pasteur, Cambodia

Workshop: Mechanisms of Replication and Assembly

Assist. Prof. Aartjan te Velthuis, Princeton, USA

Workshop: Virus Evolution and Emergence

Dr. Sebastian Lequime, Groningen Institute for Evolutionary Life Sciences, University of Groningen, the Netherlands

Workshop: Pathogenesis of Viral Diseases

Speaker TBC

Workshop: Novel Approaches to Virus Control

Dr. Jelke Fros, Wageningen University and Research, the Netherlands

Workshop: Sex Differences in Virus-Host Interaction

Prof. Sabra Klein, The Johns Hopkins Bloomberg School of Public Health, USA

Workshop: Determinants of Host Range

Dr. Ben Longdon, College of Life and Environmental Sciences University of Exeter, UK

Workshop: Virus Dynamics in Reservoir Hosts

Dr. Michelle Wille, School of Life and Environmental Sciences and School of Medical Sciences, The University of Sydney, Australia

Workshop: Antiviral drug resistance and immune evasion

Dr. Jesse Bloom, Fred Hutchinson Cancer Research Center, USA

Workshop: Host-Pathogen Interactions

Prof. Melanie Blokesch, EPFL, Lausanne, Switzerland

Prof. Willbert Bitter, Amsterdam UMC, Netherlands

Workshop: Antimicrobials and Antimicrobial Resistance

Prof. Gilles van Wezel, Leiden University, the Netherlands

Workshop: Microbial Communities and Microbiomes

Dr. Marnix Medema, Wageningen University, the Netherlands

Prof. Pieter Dorrestein, Skaggs School of Pharmacy and Pharmaceutical Sciences, San Diego, USA

Workshop: Plant-Microbe Interactions

Dr. Roeland Berendsen, University of Utrecht, the Netherlands

Dr. Silke Robatzek, LMU, Munich, Germany

Workshop: Gene Expression, Gene Regulation and Development

Prof. Didier Mazel, Institut Pasteur, Paris, France

Prof. Jörg Vogel, HZI, Wuerzburg, Germany

Workshop: Microbiome and Health

Prof. Itzik Mizrahi, Ben-Gurion University of the Negev, Beer-Sheva, Israel

Workshop: Microbial Evolution and Diversity

Prof. Willem van Schaik, University of Birmingham, UK

Workshop: New Insights into phage bacteria interactions

Prof. Bas E. Dutilh, Microverse Cluster, Friedrich Schiller University Jena | Theoretical Biology and Bioinformatics, Germany

Workshop: Microbial Biotechnology and Applied Microbiology

Speaker TBC

Workshop: Extremophiles and Archaea

Prof. Sonja Albers (Germany)

Prof. Uri Gophna, Tel Aviv University, Israel

Workshop: Food Microbiology

Prof. Alison Mather, Quadram Institute, UK

Workshop: Frontiers in Bacterial Structural Biology

Assoc. Prof. Meindert H. Lamers, LUMC, Co-Director NeCEN, Leiden, Netherlands

Workshop: Importance of data management for sustainable futures

1) Culture collections and sustainable development goals: WFCC's catalyst role

Dr. Ipek Kurtböke, WFCC, University of the Sunshine Coast, Australia

2) DCM GCM and 10K Type Strain Sequencing Project

Dr. Linhuan Wu, World Data Center of Microorganisms, Institute of Microbiology, Chinese Academy of Science, Beijing, China

3) Databasing Systems for the Management of Biological Data

Prof. Vincent A. Robert, Westerdijk Fungal Biodiversity Institute, Utrecht, the Netherlands

4) Culture collections and the Nagoya Protocol

Dr. Amber Hartman Scholtz, Braunschweig, Leibniz Institute DSMZ -German Collection of Microorganisms and Cell Cultures, Germany

5) Culture Collection Accreditation

Dr. Paulo Henrique de Holanda Veloso Júnior, Department of Cell Biology, Institute of Biological Sciences, University of Brasília, Brazil

Workshop: Toxicogenic Fungi: Biology and Taxonomy ICFM-Taxonomy of Aspergillus and Penicillium

1) Mycotoxigenic Fungi and Climate Change

Dr. Angel Medina Vaya, Reader in Food Mycology, Acting Director of Environment and Agrifood | Cranfield Soil and

Agrifood Institute, UK

2) Mycotoxigenic Fungi in Nigeria

Prof. Chibundu N. Ezekiel, Babcock University, Ilishan Remo, Nigeria

3) Lecture Title TBC

Dr. Wayne Michael Jurick II, Food Quality Laboratory Research Plant Pathologist, USA

4) Lecture Title TBC

Prof. Markus Schmidt-Heydt, Max Rubner-Institut | MRI · Department of Safety and Quality of Fruits and Vegetables, Germany

Workshop: Oomycetes as Biocontrol Agents and Parasites

Dr. Michiel Kasteel, Laboratory of Phytopathology, Department of Plant Sciences, Wageningen University & Research, Netherlands

Dr. Javier Dieguez Uribeondo, Department of Mycology, Real Jardín Botánico – CSIC, Madrid, Spain

Workshop: Advanced Life Cell Imaging

1) Live Cell Imaging and the Mode of Action of Antifungal Components

Prof. Gero Steinberg, University of Exeter, Director of the Bioimaging Centre, UK

2) Lecture Title TBC

Prof. Stanley Brul, Faculty of Science Swammerdam Institute for Life Sciences, University of Amsterdam, Netherlands

Workshop: Mycoviruses

1) Mycoviruses in *Aspergillus Fumigatus*

Dr. Ioly Kotta-Loizou, Imperial College, London, UK

2) First Mycovirus with an Extracellular Life Phase in *Sclerotinia Scleroti*

Speaker TBC

3) A Novel Mycovirus in *Malassezia*

Giuseppe Ianiri, Università degli Studi del Molise, Italy

Workshop: Skin Neglected Tropical Diseases

1) Mycetoma in the Environment

Prof. Ahmed Fahal, University of Khartoum, Sudan

2) Chromoblastomycosis

Prof. Flavio Queiroz-Telles, Hospital de Clinicas, Department of Public Health, Federal University of Paraná, Brazil

3) Leishmaniasis/Scabies

Dr. Michael Marks, LSHTM, Hospital for Tropical Diseases, University College London Hospital, UK

Workshop: Eukaryotic Anti-Microbial Resistance

1) Malaria resistance – need to decide on names

Prof. Raymond St. Leger, University of Maryland, Entomology Department, USA

2) Dermatophytes in India

Dr. Anuradha Chowdhary, Vallabhbhai Patel Chest Institute, University of Delhi, India

3) The Successful Global Spread of Azole Resistance in *Aspergillus Fumigatus*; Accidental or Inevitable?

Assist, Prof. Eveline Snelders, Wageningen University & Research, Netherlands

Workshop: Mycobiomes

1) Gut Mycobiome

Prof. René van den Wijngaard, ATytgat Institute for Liver and Intestinal Research, Department of Gastroenterology and Hepatology, Amsterdam UMC, the Netherlands

2) Soil and Climate Change

Prof. Eiko Kuramae, Netherlands Institute of Ecology, Netherlands

3) Plastic Degradation

Dr. Caroline de Tender, University of Gent, Belgium

IUMS 2022 will be a hybrid congress, providing you the option of participating both virtually, and in-person in Rotterdam, the Netherlands. To find more details about “The Hybrid Edition”, click on the button below.

[The Hybrid Edition](#)