SUNDAY, FEBRUARY 13
Arrival and Registration

MONDAY, FEBRUARY 14
Welcome and Keynote Address (Q4)
Eric G. Pamer, University of Chicago, USA
Impact of Antibiotic on Resistance Development, the Microbiome and Human Health

Welcome and Keynote Address (Q3)
Howard Ochman, University of Texas at Austin, USA
Evolution of the Human Microbiome

Expanding the Source of Chemical Space for Antimicrobial (Q4)
Man-Wah Tan, Genentech, Inc., USA
DNA Encoded Macrocycles and Metagenomic Mining for Antibiotic Discovery

David Bikard, Pasteur Institute and Eligo Bioscience, France
Engineering CRISPR-CAS Systems to Kill Bacteria

Davide Corti, Vir Biotechnology, Switzerland
Talk Title to be Announced

Short Talk(s) Chosen from Abstracts

Host Factors and the Microbiome (Q3)
Alexandra Zhernakova, University Medical Center Groningen, Netherlands
Host Genetics in Relation to the Microbiome

C. Jessica Metcalf, Princeton University, USA
Demographics and the Human Microbiome

Nandita Garud, University of California, Los Angeles, USA
Comparative Population Genetics in the Human Gut Microbiome

Short Talk(s) Chosen from Abstracts

Workshop 1: Pathways to a Sustainable Antimicrobial Ecosystem (Q4)

Short Talks Chosen from Abstracts

Novel Approaches to Discover Therapeutics and Overcome AMR (Q4)
Deborah T. Hung, Broad Institute of MIT & Harvard, USA
Systems Approach to Antimicrobial Discovery

Regina Barzilay, Massachusetts Institute of Technology, USA
Talk Title to be Announced

Houra Merrikh, Vanderbilt University, USA
Blocking the Evolution of Resistance

David S. Weiss, Emory University, USA
Novel Ways to Treat MDR Microbes

Short Talk(s) Chosen from Abstracts

Co-Evolution and Co-Diversification of Microbiota and their Hosts (Q3)
Andrew Moeller, Cornell University, USA
Coevolution of Hominids and their Microbiomes

Katherine R. Amato, Northwestern University, USA
Diet and the Evolution of the Human Microbiome

Ran Blekhman, University of Minnesota, USA
Human Genomics and the Human Microbiome

Short Talk(s) Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 15
Alternatives Approaches to tackle AMR (Q4)

Annette Vogel, BioNTech, Germany
TB Vaccine based on mRNA Technology

Speaker to be Announced

Kimberly Kline, Nanyang Technological University, Singapore
Biofilm and AMR

Heather Pinkett, Northwestern University, USA
Transporters in AMR

Short Talk(s) Chosen from Abstracts

Controlling the Microbiome for Health (Q3)

Fredrik Bäckhed, University of Gothenburg, Sweden
The Microbiome in Metabolic Disease

Lisa Maier, University of Tübingen, Germany
Microbe-Drug Interactions

Sandrine Claus, Ysopia Bioscience, France
A New Strain of Christensenella minuta as a Potential Biotherapy for Obesity and Associated Metabolic Diseases

Jens Walter, APC Microbiome Ireland, University College Cork, Ireland
Applying Ecological Theory in Controlling Microbiomes

Short Talk(s) Chosen from Abstracts

Host-Virus-Microbiome Interactions (Joint)

Andrew T. Gewirtz, Georgia State University / Frontiers, USA
Host-Virus-Microbiome Interactions

Alejandro Reyes, Los Andes University, Colombia
Bioinformatics Approaches to Phage-Host Interactions

Matthew Henn, Seres Therapeutics, USA
Microbiome Therapeutics to Combat Antimicrobial Resistance and Modulate Host Immunity

Short Talk(s) Chosen from Abstracts

* Session Chair † Invited but not yet accepted     Program current as of May 14, 2021. Meal formats are based on meeting venue.
For the most up-to-date details, visit https://www.keystonesymposia.org.
**Poster Session 2**

**WEDNESDAY, FEBRUARY 16**

**Innovations in Rapid Diagnostic to Combat AMR (Q4)**
- **Pierre Mahé**, Biomerieux, France
  *Diagnosing AMR through Sequencing*
- **Julie A. Segre**, National Institutes of Health, USA
  *Tracking an Emerging Pathogen Candida auris in Nursing Homes with Genomic-Epidemiology*
- **Kelly Flentie**, Selux Diagnostics, Inc, USA
  *Rapid Phenotypic Antibiotic Susceptibility Testing*

**Short Talk(s) Chosen from Abstracts**

**Microbe-Microbe Interactions in Shaping the Microbiome (Q3)**
- **Britt Koskella**, University of California, Berkeley, USA
  *How Microbial Interactions Maintain Diversity*
- **Rachel Dutton**, University of California, San Diego, USA
  *It's not you, It's Brie: Dissecting Species Interactions using in vitro Communities*
- **Jeff Gore**, Massachusetts Institute of Technology, USA
  *Modeling Interactions*
- **Kevin Foster**, University of Oxford, UK
  *Talk Title to be Announced*

**Short Talk(s) Chosen from Abstracts**

**Workshop 2: Lessons Learnt from Covid19 (Q4)**

**Challenges and Novel Pathways to Develop Alternative Therapies (Q4)**
- **Sumathi Nambiar**, U.S. Food and Drug Administration, USA
  *Regulatory Paths and Novel Clinical Endpoints*
- **Laura Piddock**, University of Birmingham, UK
  *Sustaining Antimicrobial Innovation*
- **Timothy Jinks**, Wellcome Trust, UK
  *Novel Antimicrobials to Patient: Creating Sustainable R&D and Marketplace for Antimicrobials*

**Short Talk(s) Chosen from Abstracts**

**Molecular Cross Talk (Q3)**
- **Elizabeth L. Johnson**, Cornell University, USA
  *Sphingolipids in the Infant Gut Microbiome*
- **Ruth E. Ley**, Max Planck Institute for Developmental Biology, Germany
  *The Interactions between Bacterial Flagellins and Toll-Like Receptor 5*

---

*Session Chair † Invited but not yet accepted  Program current as of May 14, 2021. Meal formats are based on meeting venue. For the most up-to-date details, visit [https://www.keystonesymposia.org](https://www.keystonesymposia.org).*