SUNDAY, JANUARY 17
Arrival and Registration

MONDAY, JANUARY 18
Welcome and Keynote Address (Joint)
Jeffrey I. Gordon, Washington University School of Medicine, USA
Nutrition, the Gut Microbiota and Infant Development

Chemical Biology of the Microbiome (Joint)
Emily P. Balskus, Harvard University, USA
Dissecting and Manipulating Microbial Metabolism in the Vagina and the Gut Microbiota
Mohamed S. Donia, Princeton University, USA
Chemical Ecology of the Human Microbiome in Health and Disease
Michael A. Fischbach, Stanford University, USA
Small Molecules from the Human Microbiota

Short Talks Chosen from Abstracts

Chemical Biology of the Microbiome (Joint)

Interactions between Phage and Intestinal Bacteria (J4)
Kimberley Seed, University of California, Berkeley, USA
Phage Dynamics during Intestinal Infection with Vibrio cholerae
Paul L. Bollyky, Stanford University, USA
Impact of Bacteriophage on Mammalian Cells
Colin Hill, University College Cork, Ireland
Shining Light on the Viral Dark Matter of the Human Gut Microbiome.

Short Talks Chosen from Abstracts

The Vaginal Microbiome in Health and Disease (J3)
Jacques Ravel, University of Maryland School of Medicine, USA
The Host-Vaginal Microbiome Dialogue
Tal Korem, Columbia University, USA
Modeling Vaginal Metagenomes:Metabolomes in Health and Disease
Marguerite Indriati Hood-Pishcany, Boston Children's Hospital, USA
Interspecies Competition for Glycans in the Vaginal Microbiota

Short Talks Chosen from Abstracts

Poster Session 1

TUESDAY, JANUARY 19
Interactions of Pathogens with the Microbiota (J4)
Denise M. Monack, Stanford University, USA
Commensal Metabolites and Inhibitions of Salmonella
Bärbel Stecher, Ludwig-Maximilians-Universität München, Germany
Interaction of Pathogens and the Gut Microbiota
Trevor Lawley, Wellcome Sanger Institute, UK
Exploiting Commensal Bacteria to Combat Intestinal Infection
Manuela Raffatellu, University of California, San Diego, USA
Mechanisms of Commensal-Mediated Inhibition of Pathogens

Short Talks Chosen from Abstracts

The Microbiome and Pregnancy Outcomes (J3)
Michal A. Elovitz, University of Pennsylvania School of Medicine, USA
Immunological and Microbial Modulation of the Cervicovaginal Microbiota and Spontaneous Preterm Birth
David MacIntyre, Imperial College London, UK
Glycan Mediated Microbiota-Host Interactions in the Reproductive Tract and Pregnancy Outcomes
David A.Relman, Stanford University, USA
The Post-Partum Microbiome and Predisposition Towards Spontaneous Preterm Birth
Katharina Ribbeck, Massachusetts Institute of Technology, USA
Modulation of the Properties of Cervicovaginal Mucus by the Microbiota. A Role in Spontaneous Preterm Birth?

Short Talks Chosen from Abstracts

Metabolic Pathways within the Microbiota (J4)
Alan Walker, University of Aberdeen, Scotland
Implications of Gut Microbiota Variability for Dietary and Therapeutic Interventions
Kiran Patil, European Molecular Biology Laboratory, Germany
Impact of Therapeutic Drugs on Microbiota Metabolism
Lora V. Hooper, University of Texas Southwestern Medical Center, USA
Metabolism, the Microbiome, and the Circadian Clock

Short Talks Chosen from Abstracts

Microbiome Transmission from Mother to Infants (J3)
Moran Yassour, Hebrew University of Jerusalem, Israel
Strain-Level Analysis of Mother-to-Child Bacterial Transmission during the First Few Months of Life

* Session Chair † Invited but not yet accepted  Program current as of March 14, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
Roles of Birth Mode and Infant Gut Microbiota in Intergenerational Transmission of Overweight and Obesity from Mother to Offspring
Grace M. Aldrovandi, University of California, Los Angeles, USA
When Mom is Sick: Maternal Health and the Infant Microbiome
Short Talks Chosen from Abstracts

Development of the Infant Gut Microbiota (J3)
Joseph F. Petrosino, Baylor College of Medicine, USA
Temporal Development of the Gut Microbiome in Early Childhood from the TEDDY Study
Marie-Claire Arrieta, University of Calgary, Canada
Maturation of the Gut Micro and Mycobiome and Risk of Asthma in Childhood
Erika C. Claud, University of Chicago, USA
Necrotizing Enterocolitis and the Preterm Infant Microbiome
Short Talks Chosen from Abstracts

Optimizing the Microbiota for Cancer Treatment (J4)
Thomas Gajewski, University of Chicago, USA
Using Commensal Microbes to Fight Cancer
Melody Smith, Memorial Sloan Kettering Cancer Center, USA
Intestinal Microbiome Analyses Identify Biomarkers for Patient Response to CAR T Cell Therapy
Laurence Zitvogel, Institut Gustave Roussy, France
Mechanisms By Which Microbiota Impact Tumor Immunosurveillance
Short Talks Chosen from Abstracts

The Influence of Nutrition on Infants' Microbiota and Health (J3)
Steven D. Townsend, Vanderbilt University, USA
Human Milk Oligosaccharides: Defense Against Pathogens
David M. Aronoff, Vanderbilt University, USA
Group B Streptococcus: Transmission of a Pathogen from Mother to Infant
Maria Carmen Collado, Institute of Agrochemistry and Food Technology-Spanish National Research Council, Spain
Impact of Maternal Diet and Environment/Geographical Location on Maternal Breast Milk Neonatal Microbiota
Short Talks Chosen from Abstracts

The Placental and Endometrial Microbiota – A Debate: Technical Artefact or Biological Reality? (J3)

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Moving from 'Microbiome' to Microbes in the Placenta and Uncovering Microbial-Immune Crosstalk

Frederic D. Bushman, University of Pennsylvania, USA

De-Discovery of the Placenta Microbiome

Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J4)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J3)

FRIDAY, JANUARY 22

Departure