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

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

Posters 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


**Short Talks Chosen from Abstracts**

**Anita L. Kozyrskyj**, University of Alberta, Canada
*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*

**Ivaylo I. Ivanov**, Columbia University, USA
*Uptake and Presentation of Commensal Antigens*

**Wendy S. Garrett**, Harvard School of Public Health, USA
*Commensal Bacteria, Inflammation and Cancer*

**Kenya Honda**, School of Medicine, Keio University, Japan
*Mining the Microbiota and Identifying Effector Microbes that Causally Affect the Host Physiology*

**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
*Mutation 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*

**Ivyly I. Ivanov**, Columbia University, USA
*Uptake and Presentation of Commensal Antigens*

**Wendy S. Garrett**, Harvard School of Public Health, USA
*Commensal Bacteria, Inflammation and Cancer*

**Kenya Honda**, School of Medicine, Keio University, Japan
*Mining the Microbiota and Identifying Effector Microbes that Causally Affect the Host Physiology*

**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*

**Ramnik Xavier**, Massachusetts General Hospital, USA
*Microbiota Compositions and Inflammatory Bowel Disease*

**Bana Jabri**, University of Chicago, USA
*Microbiota, Bowel Inflammation and Celiac Disease*

**Cynthia L. Sears**, Johns Hopkins University School of Medicine, USA
*Commensal Bacterial Biofilms Associated with Colon Cancer*

**Steven D. Townsend**, Vanderbilt University, USA
*Human Milk Oligosaccharides: Defense Against Pathogens*

**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*

**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*

**Seth Rakoff-Nahoum**, Boston Children's Hospital, USA
*Talk Title to be Announced*

**Chun-Jun Guo**, Weill Cornell Medicine, USA
*A Genetic Approach to Investigate Microbe-Host Interaction at the Molecular Level*

**Laurie E. Comstock**, Brigham and Women's Hospital/Harvard Medical School, USA
*Antagonism within the Microbiota*

**Andrew L. Goodman**, Yale School of Medicine, USA
*Survival Strategies in the Gut Microbiome*

**Tracy L. Bale**, University of Maryland School of Medicine, USA
*The Transfer of Stress and Trauma via the Maternal Vaginal Microbiome*

**Elaine Y. Hsiao**, University of California, Los Angeles, USA
*Perinatal Interactions between the Microbiome, Immunity, and Neurodevelopment*

**Jun R. Huh**, Harvard Medical School, USA
*Maternal Microbiota and Neurodevelopmental Abnormalities*

**Seth Rakoff-Nahoum**, Boston Children’s Hospital, USA
*Talk Title to be Announced*

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*Survival Strategies in the Gut Microbiome*

**The Placental and Endometrial Microbiota – A Debate: Technical Artifact or Biological Reality? (J3)**
Jacques Ravel, University of Maryland School of Medicine, USA
Indira U. Mysorekar, Washington University School of Medicine, USA
Frederic D. Bushman, University of Pennsylvania, USA

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

De-Discovery of the Placenta Microbiome

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J4)
Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J3)

FRIDAY, JANUARY 22
Departure