Agenda

Microbial Ecology in States of Health and Disease
March 18-19, 2013
500 Fifth Street, NW
Washington DC

DAY ONE: MONDAY, MARCH 18, 2013

7:30-8:00: Registration and Continental Breakfast

8:00-8:15: Welcoming Remarks: David Relman, James Hughes, and Lonnie King

8:15-9:00: KEYNOTE: Indigenous microbes and the ecology of chronic diseases
Martin Blaser, New York University
PowerPoint Slides
Slides with Audio (Presentation and Discussion)

9:00-9:15: Discussion

9:15-9:30: BREAK

SESSION I: HOST-MICROBE INTERACTIONS IN HUMANS, ANIMALS, AND PLANTS

Moderator: Rima Khabbaz, Centers for Disease Control and Prevention

9:30-10:00: Plant-microbe interactions in root endophyte and rhizosphere communities of Populus
Gerald Tuskan, Oak Ridge National Laboratory
PowerPoint Slides
Slides with Audio

10:00-10:30: Origins and maintenance of host-microbe interactions
Angela Douglas, Cornell University
PowerPoint Slides
Slides with Audio

10:30-11:00: Annual cycles of extreme dietary change shape gut microbiota and their hibernator hosts
Hannah Carey, University of Wisconsin-Madison
PowerPoint Slides
Slides with Audio
11:00-11:30: Symbiont microbiota and the development and maturation of the mammalian immune system
   
   Gérard Eberl, Pasteur Institute
   
   PowerPoint Slides  Slides with Audio

11:30-12:00: Discussion  Audio

12:00-1:00: LUNCH

SESSION II: EMERGING INSIGHTS INTO HOST–MICROBE INTERACTIONS

   Moderator: David Relman, Stanford University

1:00-1:30: Community ecology and the human vaginal microbiome
   
   Larry Forney, University of Idaho
   
   PowerPoint Slides  Slides with Audio

1:30-2:00: Host defense and immunomodulation of mucosal candidiasis
   
   Paul Fidel Jr., Louisiana State University
   
   PowerPoint Slides  Slides with Audio

2:00-2:30: Interactions between the mammalian virome, disease susceptibility genes, and the phenome
   
   Herbert “Skip” Virgin, Washington University
   
   PowerPoint Slides  Slides with Audio

2:30-3:00: BREAK

3:00-3:30: Microbial community dynamics and disruption—Health and disease in corals reefs and the human lung
   
   Forest Rohwer, San Diego State University
   
   PowerPoint Slides  Slides with Audio

3:30-4:00: Interactions and functions of the gut microbiota in a model vertebrate host
   
   Karen Guillemin, University of Oregon
   
   PowerPoint Slides  Slides with Audio

4:00-4:30: The influence of the mucosal immune system and gut microbiota on inflammatory bowel diseases (IBD)
   
   Richard Blumberg, Harvard Medical School
   
   PowerPoint Slides  Slides with Audio

4:30-5:30: Discussion  Audio

5:30-6:00: Concluding Remarks

6:00: ADJOURN DAY ONE
DAY TWO: TUESDAY, MARCH 19, 2013

8:00-8:30: Registration and Continental Breakfast

8:30-8:45: Welcoming Remarks and Summary of Day One: David Relman
PowerPoint Slides Slides with Audio

SESSION III: STRUCTURE AND FUNCTION OF HOST–ASSOCIATED MICROBIAL COMMUNITIES

Moderator: Queta Bond, Burroughs Wellcome Fund

8:45-9:15: The application of ecological concepts to host-associated microbial communities
Brendan Bohannan, University of Oregon
PowerPoint Slides Slides with Audio

9:15-9:45: Nutrition and the infant gut microbiota—Health and disease in the first 1000 days
David Mills, University of California at Davis
PowerPoint Slides Slides with Audio

9:45-10:15: Roles of the microbiota in the control and pathogenesis of infections
Yasmine Belkaid, National Institute of Allergy and Infectious Diseases
PowerPoint Slides Slides with Audio

10:15-10:45: BREAK

10:45-11:15: Host-microbe interactions and the genetic architecture of IBD and other complex diseases
Ramnik Xavier, Massachusetts General Hospital
PowerPoint Slides Slides with Audio

11:15-11:45: Host-mycobiome interactions in gut homeostasis and pathogenesis
David Underhill, Cedars-Sinai Medical Center
PowerPoint Slides Slides with Audio

11:45-12:15: Discussion Audio

12:15-1:15: LUNCH

SESSION IV: RESEARCH CHALLENGES & OPPORTUNITIES

Moderator: Jesse Goodman, Food and Drug Administration

1:15-1:45: Metabolism, interspecies interactions, and novel approaches to disease diagnostics and treatment
Michael Fischbach, University of California at San Francisco
PowerPoint Slides Slides with Audio
1:45-2:15: Fecal transplantation as a treatment option for recurrent *Clostridium difficile* infection
   Josbert J. Keller, University of Amsterdam
   PowerPoint Slides  Slides with Audio

2:15-2:45: BREAK

2:45-3:15: Innate antimicrobial mechanisms in disease prevention and treatment
   Michael Zasloff, Georgetown University
   PowerPoint Slides  Slides with Audio

3:15-3:45: The skin microbiome and chronic disease states
   Julie Segre, National Human Genome Research Institute
   PowerPoint Slides  Slides with Audio

3:45-4:30: Discussion Audio

4:30-4:45: Concluding Remarks

4:45: ADJOURN