

# Advancing Microbiome Research Symposium: Microbiome & Disease



November 3, 2016 | Bolger Center, Potomac, MD

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## Agenda

8:00 – 8:45am Registration and Light Breakfast

8:45 – 9:00am Welcome and Introduction

### SESSION 1: METABOLIC DISEASE & THE MICROBIOME

9:00 – 9:20am Deciphering the Biofilm-Macrophage Interactome  
Mary Cloud B. Ammons, Montana State University

9:20 – 9:40am Influence of Extrinsic Factors on the Gut and Seminal Fluid  
Microbiome in Various Rodent Models  
Cheryl Rosenfeld, University of Missouri

9:40 – 10:00am The Role of Gut Microbiota and Innate Immunity in Mouse Model  
of Autoimmune Diabetes  
Ningwen Tai, Yale University

### SESSION 2: INFECTIOUS DISEASE & THE MICROBIOME

10:00 – 10:25am A “Gut” Feeling About Malaria  
Nathan W. Schmidt, University of Louisville

10:25 – 10:40am Break

10:40 – 11:00am Triangulating Immune Responses, the Microbiota and Infection  
Outcomes in Giardiasis  
Steven Singer, Georgetown University

### SESSION 3: CANCER & THE MICROBIOME

11:00 – 11:30am The Fiber-Microbiota-Butyrate Axis in Tumor Suppression  
Scott Bultman, University of North Carolina

11:30 – 11:45am High-Resolution Taxonomic Profiling to Enhance Translational  
Microbiome Research  
James Robert White, Resphera Biosciences

11:45 – 1:00pm Lunch & Exhibits

### KEYNOTE TALK

1:00 – 1:30pm Microbiome, Disease and Therapeutics  
Odile Engel, US Food and Drug Administration

## Agenda Continued

### SESSION 4: IMMUNITY & AUTOIMMUNITY

- 1:30 – 1:50pm      Microbiota-Dependent Activation of an Autoreactive T Cell Receptor Provokes Autoimmunity in an Immunologically Privileged Site  
Reiko Horai, National Institutes of Health
- 1:50 – 2:10pm      Microbiome-Dependent Modulation of Mucosal Immunity at the Ocular Surface  
Tony St. Leger, National Institutes of Health
- 2:10 – 2:25pm      Break

### SESSION 5: PRACTICAL CONSIDERATIONS

- 2:25 – 2:45pm      Common Assumptions and Pitfalls of Microbiome Analysis  
Robert Beiko, Dalhousie University
- 2:45 – 3:05pm      Complex Microbiota Targeted Rederivation – A New Paradigm in Gnotobiology  
Aaron Ericsson, University of Missouri
- 3:05 – 3:25pm      Diversity of Murine Lung Microbiome  
Julia Scheiermann, National Cancer Institute
- 3:25 – 3:40pm      Benefits and Pitfalls of Microbiome Research  
Mohan Iyer, Second Genome
- 3:40 – 4:00pm      Gut Dysbiosis Impairs Recovery After Spinal Cord Injury  
Kristina A. Kigerl, The Ohio State University
- 4:00 – 4:05pm      Wrap up
- 4:05 – 5:00pm      Networking Reception

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