

# 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

### PRACTICAL CONSIDERATIONS — PART I

11:00 – 11:15am Benefits and Pitfalls of Microbiome Research  
Mohan Iyer, Second Genome

11:15 – 11:35am Complex Microbiota Targeted Rederivation – A New Paradigm in  
Gnotobiology  
Aaron Ericsson, University of Missouri

11:35 – 11:55am Common Assumptions and Pitfalls of Microbiome Analysis  
Robert Beiko, Dalhousie University

11:55 – 1:00pm Lunch & Exhibits

### KEYNOTE TALK

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

## Agenda Continued

### SESSION 3: IMMUNITY & AUTOIMMUNITY

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

### SESSION 4: CANCER & THE MICROBIOME

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|---------------|--|
| 2:25 – 2:55pm | The Fiber-Microbiota-Butyrate Axis in Tumor Suppression<br>Scott Bultman, University of North Carolina                       |
| 2:55 – 3:10pm | High-Resolution Taxonomic Profiling to Enhance Translational Microbiome Research<br>James Robert White, Resphera Biosciences |

### PRACTICAL CONSIDERATIONS – PART II

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|---------------|--|
| 3:10 – 3:30pm | Diversity of Murine Lung Microbiome<br>Julia Scheiermann, National Cancer Institute                      |
| 3:30 – 3:55pm | Gut Dysbiosis Impairs Recovery After Spinal Cord Injury<br>Kristina A. Kigerl, The Ohio State University |
| 3:55 – 4:00pm | Wrap up  |
| 4:00 – 5:00pm | Networking Reception   |

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