

FROM MODELS TO MEDICINE

■ Friday // August 5th

5:30-7:30 Registration and reception

7:30-8:30 **Opening Keynote: Sarkis Mazmanian, California Institute of Technology – “Host-microbiome interactions in neurological diseases”**

8:30-10:30 Poster session

8:30-9:30 odd posters

9:30-10:30 even posters

■ Saturday // August 6th

7:00-8:30 Breakfast with themed tables for directed discussions

Session 1: Host-microbe system development (moderated by Philip Washbourne)

8:30-8:55 Seth Rakoff-Nahoum, Harvard University – “*Evolutionary Ecology of the Human Gut Microbiota*”

8:55-9:20 Emily Miraldi, Simons Foundation and NYU – “*Transcriptional regulatory networks reveal gut innate lymphoid cell functionality*”

9:20-9:30 Christopher Remien, University of Idaho – “*Estimating interactions from microbial time-series data*”

9:30-9:40 Diana Proctor, Stanford University – “*Saliva and the human oral microbiota*”

9:40-9:50 Brandon Schlomann, University of Oregon – “*Response dynamics of gut bacterial communities*”

9:50-10:00 Judith Eisen, University of Oregon – “*The microbiota modulate zebrafish behavior and brain development*”

10:00-10:20 Session discussion

10:20-10:40 Break



Session 2: Host-microbe system stability and change (moderated by Tristan Ursell)

- 10:40-11:05 Thomas Sharpton, Oregon State University – *“Using zebrafish as a high-throughput system to study the effect of environmental exposure on the gut microbiome”*
- 11:05-11:30 Tracy Grikscheit, University of Southern California – *“Short bowel syndrome (SBS) has systemic effects beyond altering nutrient absorption: The microbiome and RNA sequencing in a zebrafish SBS model”*
- 11:30-11:50 Jonas Schluter and Katharine Coyte, Memorial Sloan Kettering Cancer Center – *“The ecology of the microbiome: Networks, competition, and stability”*
- 11:50-12:00 Adrian Verster, University of Washington – *“The role of the B. fragilis type VI secretion system in the assembly of the microbiome”*
- 12:00-12:10 Travis Wiles, University of Oregon – *“The importance of spatial structure in the intestinal ecosystem”*
- 12:10-12:30 Session discussion

12:30-2:00 Buffet Lunch and Poster Session (open presentation & viewing)

Session 3: Host-microbe system evolution (moderated by Michael Harms)

- 2:00-2:25 Matt Barber, University of Oregon – *“The host-microbe armistice: evolutionary insights on disease and immunity”*
- 2:25-2:50 Nadia Singh, North Carolina State University – *“Fruit flies diversify their offspring in response to parasite infection”*
- 2:50-3:00 Dahlia Nielson, North Carolina State University – *“Cross-species expression QTL mapping reveals novel insights into host-parasite interactions”*
- 3:00-3:10 Clay Small, University of Oregon – *“Host genotype, the microbiota, and their interaction contribute to transcriptional variation of the gut in larval threespine stickleback”*
- 3:10-3:20 Cathy Robinson, University of Oregon – *“Experimental evolution provides insight into the selective pressures of adaptation to the vertebrate gut”*
- 3:20-3:40 Session discussion

3:40-4:00 Break



Session 4: The personalized microbiome (moderated by Nelson Ting)

- 4:00-4:25 Ran Blekhman, University of Minnesota – “Host genomic control of the microbiome in health and disease”
- 4:25-4:50 Joey McMurdie, Whole Biome – “Higher resolution metagenome techniques and their implication on the role of microbiota in personalized medicine”
- 4:50-5:00 Xiaoxi Dong, Oregon State University – “Shotgun sequencing reveals the cross-regulation between immunity and metabolism in immunodeficiency associated enteropathy”
- 5:00-5:10 Adam Burns, University of Oregon – “Inter-host dispersal mediates the assembly of microbial communities associated with wild type and immune-deficient zebrafish”
- 5:10-5:20 Keaton Stagaman, University of Oregon – “The effects of market integration on the composition of the gut microbiota in an indigenous Ecuadorian population”
- 5:20-5:40 Session discussion

Free time - for dining suggestions please refer to the guide provided with your symposium materials. Be sure to check out the ‘Show Your Badge’ deals!

■ Sunday // August 7th

- 7:00-8:00 Breakfast with themed tables for directed discussions

Session 5: Host-microbe systems and disease promotion and prevention (moderated by Annie Powell)

- 8:00-8:25 Susan Erdman, MIT – “Gut microbes and cancer”
- 8:25-8:50 Li Wen, Yale University – “Antibiotics – friend or foe – a case of type 1 diabetes”
- 8:50-9:15 Robert Martindale, Oregon Health & Science University – “Use of probiotics in surgical practice: Panacea or poison”
- 9:15-9:25 Bethany Rader, Southern Illinois University – “Probiotic use of *Lactobacillus reuteri* to treat early life traumatic brain injury (TBI) and the effect of TBI on the gut microbiome”
- 9:25-9:35 Annah Rolig, University of Oregon – “The enteric nervous system promotes intestinal health by constraining microbiota composition”
- 9:35-9:55 Session discussion



9:55-10:15 Break

10:15-11:15 **Closing Keynote: Eric Pamer, Memorial Sloan Kettering Cancer Center –**
“Microbiota-mediated defense against intestinal infection”

11:15-11:30 Closing remarks by Karen Guillemin

Meeting adjourned at 11:30

Symposium Notes

Event Locations

Reception.....*Lobby*
Friday Keynote talk.....*Composer's Hall*
Sunday Keynote talk.....*Hellman / Wilder*
Seminar sessions.....*Hellman / Wilder*
Breaks & meals.....*O'Neill / Williams*
Poster sessions.....*O'Neill / Williams*

Social Media

Share your thoughts and continue the conversation by following the META symposium hashtag **#UOMETA2016** and tweeting **@META_Center**

