

Synthesis & Selection of Host-Microbe Systems

■ Friday // July 31st

5:30-7:30 Registration and reception

7:30-8:30 **Keynote talk: Julie Segre, National Institutes of Health** – *“Genomic Epidemiology: Full genome sequencing to track antibiotic resistant Gram-negative bacteria within and between hospitals”*

8:30-10:30 Poster session

8:30-9:00 odd posters

9:00-9:30 even posters

9:30-10:30 open presentation & viewing

■ Saturday // August 1st

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

Session 1: Host Selection on Microbiota

8:30-8:55 June Round, University of Utah – *“Redefining self: MHC variation influences microbial community composition”*

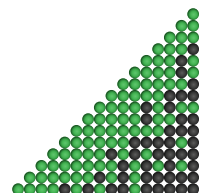
8:55-9:20 Rustom Antia, Emory University – *“A population biological approach to understanding adaptive immune repertoires”*

9:20-9:45 Khrys Duddleston, University of Alaska Anchorage – *“Investigating the gut microbial community of an extreme hibernator, the arctic ground squirrel”*

9:45-9:55 Keaton Stagaman, University of Oregon – *“The zebrafish adaptive immune system subtly shapes its gut microbiota”*

9:55-10:25 Session discussion, moderated by Claire Fraser (University of Maryland) and Karen Guillemin (University of Oregon)

10:25-11:00 Break



Session 2: Structure/Function Relationships in Host-Microbe Systems

- 11:00-11:25 Carolina Tropini, Stanford University – “*Gut microbiota dynamics during physical perturbations*”
- 11:25-11:50 Jason Shear, University of Texas – “*3D printing of microscopic bacterial communities*”
- 11:50-12:00 Travis Wiles, University of Oregon – “*Dissecting the ontogeny of host-associated bacterial communities*”
- 12:00-12:10 Alexander Eng, University of Washington– “*An algorithm for designing minimal microbial communities with desired metabolic capacities*”
- 12:10-12:40 Session discussion, moderated by David Relman (Stanford University) and Tristan Ursell (University of Oregon)

12:40-1:40 Buffet lunch

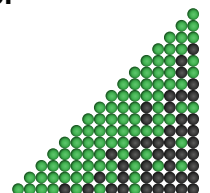
1:40-3:40 Poster session

1:40-3:40 open presentation & viewing

Session 3: Population Variation of Host-Microbe Systems

- 3:40-4:05 Mohamed Donia, Princeton University – “*Small-molecule-mediated interactions in complex microbial communities*”
- 4:05-4:30 Margaret Romine, Pacific Northwest National Laboratory – “*Potential coordination of community metabolism via B12 limitation*”
- 4:30-4:55 Natalia Shulzhenko, Oregon State University – “*Uncovering host-microbiota interactions using transkingdom networks*”
- 4:55-5:05 Jennifer Hampton, University of Oregon – “*A novel protein produced by the gut microbiota induces pancreatic β cell proliferation*”
- 5:05-5:15 Ohad Manor, University of Washington – “*An integrative computational framework for identifying taxonomic drivers of functional shifts in the human microbiome*”
- 5:15-5:45 Session discussion, moderated by Steve Wiley (Pacific Northwest National Laboratory) and Raghuveer Parthasarathy (University of Oregon)

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 2nd

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

Session 4: Modeling Microbial Communities

8:00-8:25 Tadashi Fukami, Stanford University – “*Historical contingency in host-microbe interactions*”

8:25-8:50 Pankaj Mehta, Boston University – “*Learning interactions in the Human Microbiome*”

8:50-9:00 Stephen Nayfach, University of California San Francisco – “*Uncovering the gene content and biogeography of microbial species from the human gut microbiome*”

9:00-9:30 Session discussion, moderated by Curtis Huttenhower (Harvard University) and Brendan Bohannan (University of Oregon)

9:30-10:05 Break

Session 5: Evolutionary Perspectives of Host-Microbe Systems

10:05-10:30 Michael Travisano, University of Minnesota – “*Ecological perspectives on synthetic biology: insights from microbial population biology*”

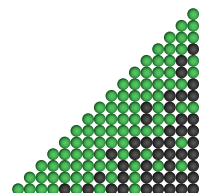
10:30-10:55 Nels Elde, University of Utah – “*Paying an evolutionary Fe(3+) to the Red Queen*”

10:55-11:05 Kat Milligan-Myhre, University of Alaska Anchorage – “*Natural variation in the immune response to gut microbiota*”

11:05-11:30 Stephen Giovannoni, Oregon State University – “*Genome Streamlining and the Uncultured Microbial Majority*”

11:30-12:00 Session discussion, moderated by Thomas Sharpton (Oregon State University) and William Cresko (University of Oregon)

Meeting adjourned at noon



Symposium Notes

Event Locations

- Reception..... *Lobby*
- Keynote talk..... *Composer's Hall*
- 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 [#METAsym2015](#) and tweeting [@META_Center](#)

