

# Research

## Microbiome Systems Biology for Human and Environmental Health

October 6, 2016 | 4:00-6:00 PM

### Introductions:

|                 |  |
|-----------------|--|
| Gloria Waters   | Vice President and Associate Provost for Research                                    |
| Daniel Segrè    | Professor, Biology and Physics, CAS, Biomedical Engineering, ENG, and Bioinformatics |
| W. Evan Johnson | Associate Professor, Medicine and Biostatistics, MED, and Bioinformatics             |

### Research Presentations:

- **Enzyme Profiling for Functional Discovery**  
*Karen Allen, Ph.D., Professor, Department of Chemistry, College of Arts & Sciences*
- **Motility and Colonization of Helicobacter in Stomach Mucosa**  
*Rama Bansil, Ph.D., Professor, Department of Physics, College of Arts & Sciences*
- **Plant-Microbial Interactions in Natural and Managed Ecosystems**  
*Pamela Templer, Ph.D., Associate Professor, Department of Biology, College of Arts & Sciences*
- **Microbes Gate Keep the Global Carbon Cycle and Regulate Climate**  
*Adrien Finzi, Ph.D., Professor, Department of Biology, College of Arts & Sciences*
- **Insect Probiotics: Are Wolbachia in Mosquitos Good for Human Health?**  
*Horacio Frydman, Ph.D., Associate Professor, Department of Biology, College of Arts & Sciences, and National Emergency Infectious Diseases Laboratories (NEIDL)*
- **Gluten-Degrading Bacteria and Enzymes: Novel Therapeutics for Celiac Disease**  
*Eva Helmerhost, Ph.D., Associate Professor, Department of Molecular & Cell Biology, School of Dental Medicine*
- **Regulating Inflammation**  
*Trevor Siggers, Ph.D., Assistant Professor, Department of Biology, College of Arts & Sciences*
- **Vaccines, Adjuvants, and the Microbiome**  
*Lee Wetzler, M.D., Professor, Department of Microbiology, School of Medicine*
- **Southern Africa Mother Infant Pertussis Study**  
*Chris Gill, Ph.D., Associate Professor, Department of Global Health, School of Public Health*
- **Microbiome: From Data to Models**  
*Kirill Korolev, Ph.D., Assistant Professor, Department of Physics, College of Arts & Sciences*
- **Marine Microbiomes – Linking Ecosystem Function to Microbial Community Dynamics**  
*Wally Fulweiler, Ph.D., Associate Professor, Departments of Earth & Environment and Biology, College of Arts & Sciences*
- **Systems Biology of the Earth Microbiome**  
*Jennifer Talbot, Ph.D., Assistant Professor, Department of Biology, College of Arts & Sciences*
- **Two Approaches to Uncovering Ecological Principles**  
*Pankaj Mehta, Ph.D., Associate Professor, Department of Physics, College of Arts & Sciences*

- **Tools and Methods for Interpreting Metagenomic Sequencing Data**

*Evan Johnson, Ph.D., Associate Professor, Departments of Medicine and Biostatistics, School of Medicine*

- **Metabolic Dynamics and Synthetic Ecology of Microbes**

*Daniel Segrè, Ph.D., Professor, Departments of Biology and Physics, College of Arts & Sciences; Department of Biomedical Engineering, College of Engineering; and Bioinformatics Program*

*Thank you for your participation*



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