

**Promoting Applied Biomedical & Environmental Microbiome  
Research in Rhode Island & the Northeast**

7 Greenhouse Road, Kingston RI  
WI-FI "URI\_Open"

*Pre-registration is Required*

Visit our website

[web.uri.edu/riinbre/microbiome-symposium-2020/](http://web.uri.edu/riinbre/microbiome-symposium-2020/)



**Thursday, January 16**

4:00 pm - 5:00 pm

**Registrants** - First Floor Atrium

*Upon arrival please check in at the registrant table to pick up a program booklet & name badge*

**5:00 pm to 8:00 pm – 170 Avedisian Hall**

5:00 pm - 5:15 pm

**Welcoming Remarks**

Christopher Hemme, PhD, RI-INBRE Bioinformatics Core Director

Bongsup Cho, PhD, RI-INBRE Program Director

Paul Larrat, PhD, Dean, College of Pharmacy, University of Rhode Island

5:15 pm - 6:00 pm

**Keynote Speaker I – *De novo mutations in human skin microbiomes*** Tami Lieberman, PhD, Assistant Professor, Massachusetts Institute of Technology

6:00 pm - 8:00pm

**Poster Session & Networking Reception** 1<sup>st</sup> Floor Atrium

**Friday January 17**

7:00 am - 8:30 am

**Registrants** - First Floor Atrium

*Upon arrival please check in at the registrant table to pick up a program booklet & name badge*

**8:30 am to 12:00 pm – 170 Avedisian Hall**

8:30 am - 8:45 am

**Overview of Symposium Goals**

Christopher Hemme, PhD, RI-INBRE Bioinformatics Core Director

8:45 am - 10:15 am

**Session I – *Diet & the Microbiome*** Peter Belenky, PhD, Brown University

***Microbial Translocation & Innate Immune Markers following Moderate Alcohol in Healthy Volunteers***

Mollie Monnig, PhD, Brown University

***The Effects of Polyunsaturated Fatty Acids on the Gut Microbiome***

Kanakaraju Kaliannan, M.D., Harvard Medical School, Massachusetts General Hospital

***Effects of Complex Polysaccharides on Antibiotic-Induced Gut Dysbiosis***

Swathi Penumutchu, Brown University

***Taxonomic and Functional Profiling of the Microbiome of the Eastern Oyster, *Crassostrea virginica****

Zachary Pimentel, University of Rhode Island

10:15 am - 10:30 am **Break**

10:30 am - 12:00 pm

**Session II – *Pathogens, Antibiotics & the Microbiome*** Kathryn Ramsey, PhD, University of Rhode Island

***Impact of Lung Microbes on Tolerance to Influenza A Virus Infection***

Amanda Jamieson, PhD, Brown University

***The Role of Microbial & Host Metabolism in Antibiotic-Induced Dysbiosis***

Peter Belenky, PhD, Brown University

***Mucus Residing Community is Key for Gut Microbiome Stability***

Kellyanne Duncan, Brown University

***An Expedition into the Establishment of the Resistome: Exploring the Collection of Antimicrobial Resistance Genes in the Infant Gut***

Rebecca Lebeaux, Dartmouth College

12:00 pm - 12:45 pm

**Facilities Tours & Lunch**

- 3D Facility for Biomedical Sciences 292 Avedisian
- Rhode Island Genomics & Sequencing Center 352 CBLS
- RI-INBRE Central Research Core Facility 405 Avedisian

12:45 pm - 2:00 pm

**Breakout Sessions**

BREAKOUT SESSION A: ***Bioinformatics*** Christopher Hemme 105 Avedisian

***Aspects of Power for Metagenomic Studies*** August Guang, PhD, Brown University

***Nanopore Sensors for -omics: Combing Through the Microbiome one Molecule at a Time***

Jason Dwyer, PhD, University of Rhode Island

***From genomes to ecosystems: Model-based characterization of omics data***

Ying Zhang, PhD, University of Rhode Island

**Open Discussion**

BREAKOUT SESSION B: ***Student/Postdoc Lightning Talks*** Matthew Ramsey, PhD 130 Avedisian

***Antibiotic Resistance Genes are Ubiquitous Among the Gut Microbiota of Narragansett Bay Fish Species***

Benjamin Korry, Brown University

***Host Hyperglycemia Impacts Antibiotic Efficacy within the Gut Microbiome***

Jenna Wurster, Brown University

***An Unexpected Finding in the Serum of Type II Diabetics*** Dasith Perera, University of Rhode Island

***Metabolic Modeling of a Novel Mycoplasma Identified from Eastern Oyster Microbiome*** Kayla Russo, University of Rhode Island

***Analysis of nitrifying & denitrifying bacteria communities in advanced nitrogen-removal onsite wastewater treatment systems*** Bianca Ross, University of Rhode Island

***Microbial composition of greenhouse gas cycling communities in soils above septic system drainfields*** Alissa Cox, University of Rhode Island

***Microbial Nitrogen Removal in Soils Treating Septic System Wastewater*** Sarah Wigginton, University of Rhode Island

***EUKnique: Single-Cell Transcriptomic Analysis for Marine Microbial Eukaryotes*** Arianna Krinos, Massachusetts Institute of Technology

***Tiny Cells with a Big Impact: An Unexpected Bloom in the Mid-Atlantic*** Jessica Carney, University of Rhode Island

***Microbiome Profiling at the Strain Level Using rRNA Amplicons*** Dawn Gratalo, Shoreline Biome

**2:00 pm to 6:00 pm – 170 Avedisian Hall**

2:00 pm - 2:45 pm

**Keynote Speaker II – *Birds & Bacteria: Evolution of the Avian Microbiome*** Sarah Hird, PhD, University of Connecticut

2:45 pm - 4:15 pm

**Session III – *Healthy States: Commensal Microbiomes*** Roxanne Beinart, PhD, University of Rhode Island

***Identifying Mechanisms That Dictate Spatial Composition of the Oral Microbiota*** Matthew Ramsey, PhD, University of Rhode Island

***Inter-Individual Variation in the Gut Bacterial Communities of Captive Coppery Titi Monkeys*** Laura Williams, PhD, Providence College

***Effects of Environment & Species Identity on the Gut Microbiomes of Co-occurring Small Mammals in a Savanna Ecosystem*** Bianca Brown, Brown University

***Linking Environmental Variability to Oyster Microbiomes in Narragansett Bay*** Rebecca Stevick, University of Rhode Island

4:15 pm - 4:30 pm **Break**

4:30 pm - 6:00 pm

**Session IV – *Microbial Ecology*** Ying Zhang, PhD, University of Rhode Island

***Long-term Coexistence of Cyanobacterial & Viral Communities in Narragansett Bay*** Marcia Marston, PhD, Roger Williams University

***Using the Local Temperate Coral *Astrangia poculata* to Identify What Drives Stability of Coral-Microbe Interactions*** Koty Sharp, PhD, Roger Williams University

***Microbial Drivers of Nitrogen Metabolism: Searching Tara Oceans Metagenomes*** Laura Blum, Middlebury College

**High-Pressure Shipboard Experiments Provide Insights into the Physiological Dynamics of Chemosynthetic Vent Snail Symbionts** Corinna Breusing, PhD, University of Rhode Island

6:00 pm

**Closing Remarks**

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*For help, call 401-874-4357(HELP) or email [helpdesk@uri.edu](mailto:helpdesk@uri.edu)*



**Parking**

In Fine Arts North (student parking), accessible by Flagg Road.

*Note: Visitor Parking passes are not required for this event.*

*Please do not park in faculty/staff lots. Thank you.*

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