

THE ONE HEALTH MICROBIOME SYMPOSIUM

Huck Life Science Building
Penn State University, University Park, PA

MAY 30-31, 2024



Thursday, May 30, 2024 - Day 1

8:00 - 9:30 AM	Registration
8:00 - 9:30 AM	Breakfast & Poster Setup
8:30 - 9:30 AM	Poster Session #1 (odd numbered posters)
9:45 - 10:00 AM	Opening Remarks from One Health Microbiome Center Leadership

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Session 1: Integrated One Health

10:00 - 10:50 AM	Keynote: Steffanie Strathdee, PhD University of California San Diego <i>From Bog to Bedside: The Story Behind the first Dedicated Phage Therapy Program in the United States</i>
10:50 - 11:10 AM	Rupinder Kaur, PhD Pennsylvania State University <i>Pushing boundaries: Unraveling the impact of bacteriophage proteins on eukaryotic host biology to aid in vector control strategies</i>
11:10 - 11:30 AM	Ivan Liachko, PhD Phase Genomics <i>Building the World's Largest Virome-Microbe Interaction Atlas Using Proximity Ligation Sequencing Technology</i>
11:30 - 11:50 AM	Geo Santiago-Martinez, PhD The University of Connecticut <i>Functional genomics in methane-producing archaea from host-associated microbiomes</i>
11:50 - 1:05 PM	Lunch (provided) & Professional Development Talk - Dylan Barbera QIAGEN

Session 2: Agricultural Health

1:05 - 1:55 PM	Keynote: Paul Schulze-Lefert, PhD Max Planck Institute for Plant Breeding Research <i>Reductionist approaches to determine functions of the plant root microbiota</i>
1:55 - 2:15 PM	Patrick Sydow Pennsylvania State University <i>Variation in response to arbuscular mycorrhizal fungi across maize genotypes and agroecosystems</i>
2:15 - 2:35 PM	Fiana Guevara The Ohio State University <i>Pathogen-induced changes in bacterial and fungal communities' structure in hydroponically grown lettuce.</i>
2:35 - 2:55 PM	Karen Peralta Martinez University of Pittsburgh <i>Breaking Down the Armor: Effects of Chitin found in the exoskeleton of insects on Mammalian Gut Microbiota and Physiology in Wild Mice</i>
2:55 - 3:20 PM	Coffee Break

Session 3: Environmental Health

3:20 - 4:10 PM	Keynote: Edith Hammer, PhD Lund University <i>Windows to the Underground - Live Broadcast from the World of Soil Microbes</i>
4:10 - 4:30 PM	Marcella Baiz, PhD University at Buffalo, SUNY <i>Association between the gut microbiome and carotenoid plumage phenotype in an avian hybrid zone</i>
4:30 - 4:50 PM	Tim I. Miyashiro, PhD Pennsylvania State University <i>Homoserine lactone autoinducer drives diversification of the quorum-sensing receptor in the bacterial symbiont <i>Vibrio fischeri</i></i>
4:50 - 5:10 PM	Anna Kazarina Kansas State University <i>Microbial metabolites enhanced plant-host growth through provision of nutrients and stress removal</i>
6:00 - 8:30 PM	Reception Hintz Alumni Center

Friday, May 31, 2024 - Day 2

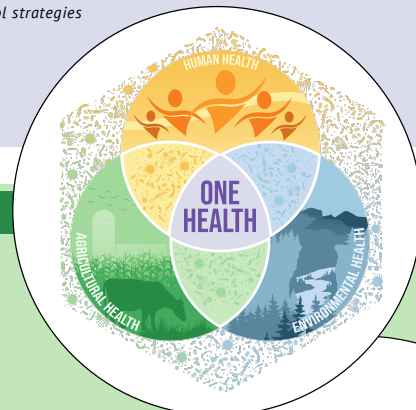
8:00 - 9:30 AM	Breakfast
8:30 - 9:30 AM	Poster Session #2 (even numbered posters)

Session 4: Human Health & Disease

9:45 - 10:35 AM	Keynote: Maria Gloria Dominguez-Bello, PhD Rutgers University <i>The Microbiome in the Novacene</i>
10:35 - 10:55 AM	Guy Townsend, PhD Pennsylvania State University, College of Medicine <i>Harnessing gut microbes for glycan detection and characterization</i>
10:55 - 11:15 AM	Sangshan Tian Pennsylvania State University <i>Soluble fiber mediated modulation of colonic inflammation and colitis-associated colon tumorigenesis in mice</i>
11:15 - 11:35 AM	Benjamin Anderson Pennsylvania State University <i>Antimalarial Drug interactions with the Human Gut Microbiome</i>
11:40 - 1:00 PM	Lunch (provided) & Themed tables discussions
1:00 - 1:20 PM	Group Discussion of lunch table topics led by Ambassadors

Session 5: Tools and Technologies

1:20 - 1:40 PM	Eric V Patridge, PhD Viome Life Sciences <i>Metatranscriptomic activity of the gut microbiome drives data-driven precision nutrition through food and supplement recommendations</i>
1:40 - 2:00 PM	Jennifer Harris Pennsylvania State University <i>Active microbes in the rhizosphere are most likely to successfully colonize plant belowground structures when probed with bioorthogonal non-canonical amino acid tagging (BONCAT)</i>
2:00 - 2:15 PM	Coffee Break
2:15 - 3:00 PM	Awards, discussion, and closing remarks



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