



UCR MICROBIOME INITIATIVE

FROM THE ENVIRONMENT TO AGRICULTURE TO HUMAN HEALTH

SYMPOSIUM PROGRAM

September • 23th • 2019

8:00 a.m. Registration & Breakfast

9:00 a.m. Welcome and Introduction Joel Sachs EEOB

Keynote Lecture 9:05 a.m. Douglas Cook, Department of Plant Pathology, College of Agricultural and Environmental Sciences, UC Davis. "Harvesting plants, genes and microbes from the ancestors of modern agriculture"

Session 1. Ecology & Evolution:

10:00 a.m. Yan Wang, MPP Evolutionary impact of anaerobic gut fungi on their herbivorous mammal hosts

10:15 a.m. Nichole Ginnan, MPP Microbial Population Dynamics Across the Huanglongbing Disease Spectrum: A Microbiome Disease Model for Perennial Plants

10:30 a.m. Elizabeth Deyett, BPS Elusive Endophytes: A Microbial Journey Through the Grapevine

Coffee Break 10:45-11:15

BASF Networking meeting in the Genomic Boardroom

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Session 2. Cell Interface

- 11:15 a.m. **Julliet Morrison, MPP** The role of pleural macrophages in influenza resolution (Invited)
- 11:30 a.m. **Dan Pers, ENT** Epigenetic regulation of an integrated animal-microbe metabolism throughout aphid development
- 11:45 a.m. **Ali Shawki, SOM** The Autoimmune Susceptibility Gene, PTPN2, Restricts Expansion of a Novel Mouse Adherent-Invasive E coli
- 12:00 p.m. **Arghavan Alisoltanidehkordi, SOM** Large scale metaproteomic analysis of young South African women: insights into the choice of database and normalization method

Lunch Break and Poster Session 12:15 p.m.-1:45 p.m.

Session 3. Genes to Function

- 1:45 p.m. **Katherine Borkovich, MPP** Signaling mechanisms involved in the response of fungi to the plant cell wall (invited)
- 2:00 p.m. **Lauren Hale, USDA-ARS**, Environmental conditions shape the magnitude of microbial biodiversity and functioning relationships
- 2:15 p.m. **Poonamjot Deol, MCSB** Impact of Dietary Soybean Oil on Inflammatory Bowel Disease: Role of HNF4 α and the Microbiome

Coffee Break 2:30-3:15 p.m.

BAYER Networking meeting in the Genomic Boardroom

Session 4. Host & Society

- 3:15 p.m. **Deborah Pagliaccia/Sam Ying, BPS & ENSC** Two food waste byproducts selectively stimulate beneficial resident host-associated microbes
- 3:30 p.m. **Salma Alavi, MPP** Human Gut Microbiome Mediates Colonization Resistance to *Vibrio cholerae*
- 3:45 p.m. **Jonathan Mitchell, MPP** Modulation of *Vibrio cholerae* virulence by bile acids metabolism through the gut microbiome

Session 5 University/Industry Partners

- 4:00 p.m. **Joel Sachs, Microbiome Director** Updates on UCR Microbiome Initiative, Announcement of new fellowship program from Zymo
- 4:15 p.m. **Keith Booher, Service Projects Manager, The Zymo Research** Microbiomics Portfolio: A Complete Microbiomics Solution”
- 4:30 p.m. **Rosibel Ochoa, OTP** UCR's model for catalyzing Industry-university collaborations.
- 4:45 p.m. **Adil Anjem, Bayer Microbials**

Reception 4:00 - 5:30 p.m

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Posters Presentations - Genomic Building Courtyard

Fabiola Pulido-Chavez High-severity Wildfire Reduces Richness and Alters Composition of Ectomycorrhizal Fungi in Ponderosa Pine Forest

Nuttapon Pombubpa Fungal-Bacterial Diversity and Network underlying Biocrust Geographical, Soil Depth, and Crust types patterns in Mojave Desert

Xingyu Chen Creating a Circular Economy: From Food Waste to Sustainable Food Production through Microbe-Mediated Processes

Monica McNamara Early-life exposure to Western diet reduces adult gut microbiome diversity

Arafat Rahman Characterizing in planta competitive fitness of wild Bradyrhizobium strains

Tania Kurbessoian Just Deserts: Exploring the Diversity of Melanized Fungi in Rocks and Biological Soil Crusts

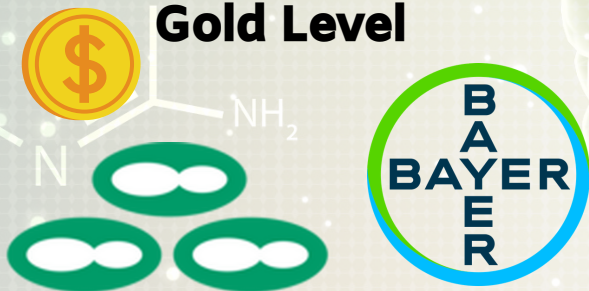
Yingnan Hou Plant secondary siRNAs contribute to host-induced gene silencing in oomycete pathogens

Dylan Enright Effect of a Megafire on Soil Microbial Communities

Julio Avelar-Barragan Variations in local microbiome populations in normal colorectal tissue and adenomas

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