

SCIENTIFIC PROGRAM

SESSION LECTURE

No. 34

Microbiome and Human Health

Room: 401

Co-Chairs: Shuangjiang Liu



Wenyuan Shi



Day 2 October 28th (Sunday) 13:30 – 17:00

Time	Speaker	Title
13:30-14:00	Gary Borisy <i>The Forsyth Institute, USA</i>	Mapping Microbiomes at the Micron Scale
14:00-14:30	Jun Wang <i>Institute of Microbiology, Chinese Academy of Sciences, China</i>	Gut microbiome and health at macro- and micro-scale
14:30-15:00	Yunsheng Yang <i>Institute of Digestive Diseases, Chinese PLA General Hospital, China</i>	Gut microbiota : Advances on Clinical Treatment
15:00-15:30	Tea Break	
15:30-16:00	Wenyuan Shi <i>The Forsyth Institute, USA</i>	Targeted antimicrobial therapy to manipulate human microbiome
16:00-16:30	Matthew Sullivan <i>The Ohio State University, USA</i>	How studying ocean viruses may help save the Earth and cure disease
16:30-17:00	Shuangjiang Liu <i>Institute of Microbiology, Chinese Academy of Sciences, China</i>	One health of microbiomes for human and environments



Shuangjiang Liu

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Dr. Shuangjiang Liu was promoted to a professor in 2001 at Institute of Microbiology, Chinese Academy of Sciences. His research interests include gut microbiology, bacterial degradation of aromatic compounds, bacterial behavior in environments particularly chemotaxis, and cultivation of microbes from various environments. He is serving as the Editor of “Applied and Environmental Microbiology”, Editor of “Achieves of Microbiology”, and Associate Editor of “Microbes and Environments”.



Gary Borisy

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National Academy of Sciences, Amer Acad Arts & Sciences, Senior Investigator at the Forsyth Institute in Cambridge, MA. His work is directed at deconstructing microbiome function by visualizing the spatial organization of the microbiota at the level at which they live and work—the micron scale.



Yunsheng Yang

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Prof. Yun-sheng Yang MD is a gastroenterologist at Chinese PLA General Hospital, China. His research on GI microbiota and robot-assistance endoscopy. FMT Clinical trials with positive effects on ulcerative colitis, autism and Tic disorder, and FMT mechanism. He is the leading inventor of soft endoscopy robot YunSRobot and firstly performed gastroscopy with YunSRbobot in human in the world, 2017. He is the president of Chinese Association of Digestive Diseases.



Wenyan Shi

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Dr. Shi’s research team studies the molecular mechanisms underlying the inter-species interactions within oral microbiome with a specific focus on signal transduction and the targeted antimicrobial therapeutics to modulate microbiomes.



Jun Wang

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Jun Wang is professor of Bioinformatics and Computational Biology at Institute of Microbiology, CAS, with additional support from Max-Planck Society of Germany as a partner group. He focuses on the structure and functionality of microbiome in various contexts, including host-microbiome co-evolution, microbiome in health and diseases, as well as data exploration and mining.



Matthew Sullivan

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Professor Sullivan’s research aims to quantitatively explore the roles of microbial viruses in the oceans (globally), soils, and humans. As a Gordon and Betty Moore Foundation Investigator, he has helped lay the foundation for modern viral ecology through establishing quantitative viral metagenomic sample-to-sequence pipeline and community-available informatics platforms to analyze such data, expanding our understanding of the global virosphere, and developing new approaches to link and explore virus-host interactions. He co-founded the UA Ecosystem Genomics Institute, and serves as co-Director of OSU’s Microbial Communities Program.