

2018 Sino-Micro Annual Meeting

Microbiome and Organisms: A New Era in Medicine, Food & Agriculture, and the Environment

June 7, 2018

2018 Microbes Conference Facility (to be announced)

Atlanta, Georgia

Organized by

Overseas Chinese Society for Microbiology (Sino-Micro)

Co-sponsored by American Society for Microbiology and Chinese Society for Microbiology

<http://www.sinomicro.org/2018symp/index.php>

Online Registration and abstract submission: <http://www.sinomicro.org/2018symp/registration.php>

Featured expert speakers and forum panel members:

Presidents of Sino-Micro, ASM, CSM, ASM membership and international department officers; Academicians and fellows of NAS, AAM, Chinese Academy of Sciences, Chinese Academy of Engineering; White House and China Microbiome Initiatives and China Synthetic Biology Initiative leaders

Symposium Sessions:

8:00 -9:45 AM

Fundamental Microbiology

Convener(s): Drs. Casey Chen, Yiping Han, Daoguo Zhou

8:00-8:20 AM

Jian-Guo Xu (China CDC)

The pathogens, opportunity pathogens and new bacteria in wild animals in depopulated Qinghai-Tibet Plateau of China

8:21-8:30 AM

Oliver He (U Michigan) (Power talk)

Ontology-based standardization and integration of host-microbiome interaction data and identification of dysbiosis-inducing gene factors

8:31-8:40 AM

Youjun Feng (Zhejiang University) (Power talk)

Mechanistic Insights into MCR-1/2 Colistin Resistance

8:41-8:50 AM

Wei Liang (The Second People's Hospital of Lianyungang City) (Power talk)

Anti-restriction protein, KlcAHS, promotes dissemination of Carbapenem-resistant *Klebsiella pneumoniae*

8:51-9:00 AM

Liang Yang (Nanyang Technological University) (Power talk)

Compound that sensitises bacterial cells to hydrophobic antibiotics

- 9:01-9:10 AM Xingxing Xu (Zhejiang Chinese Medical University) (Power talk)
Comparative whole genome sequence analysis of *Clostridium difficile* ST37 isolates circulating in China.
- 9:11-9:30 AM Yongqun Zhu (Zhejiang Univ.)
Molecular mechanism of bacterial pathogen-host interactions
- 9:31-9:40 AM Yubao Wang (The Second Hospital of Tianjin Medical University) (Power talk)
Emergency of multidrug-resistant *Salmonella* Goldcoast harboring *Salmonella* Typhi-associated virulence genes
- 9:41-9:50 AM Yiping Han (Columbia University) (Power talk)
Mechanism of *Fusobacterium nucleatum* in colorectal cancer
- 10:00AM-12:10 PM Environmental Microbiology**
- Convener(s): Dr. Jizhong Zhou**
- 10:00-10:30AM Guoping Zhao (Chinese Academy of Sciences)
Chinese microbiome initiatives on water and biotechnology: current status, challenges and future
- 10:30-11:00 AM Nianzhi Jiao (Xiamen University)
Microbial carbon sequestration and climate change
- 11:00-11:10 AM Jiangrang Lu (US EPA)
High interspecific and intraspecific diversity of dominant cyanobacteria throughout a bloom in Lake Harsha (Ohio, USA) (Power talk)
- 11:11-11:20 AM Min Dong (Harvard Medical School) (Power talk)
Identification of a botulinum neurotoxin-like toxin in a commensal strain of *Enterococcus faecium*
- 11:21-11:30 AM Wenjun Li (NCBI) (Power talk)
Evidence-based prokaryotic genome re-annotation project at NCBI.
- 11:31-11:40 AM Jizhong Zhou (University of Oklahoma) (Power talk)
Global Wastewater Microbiome Consortium
- 11:41 AM-12:10 PM James Tiedje (Michigan State University)
Microbial ecology: learning from the past and projecting the future

Lunch break

1:00-2:50 PM Clinical and translational Microbiology

Convener(s): Dr. Yiwei Tang

- 1:00-1:20 PM Yi-Wei Tang (Memorial Sloan Kettering Cancer Center, USA)
Promoting translational research in clinical microbiology service
- 1:21-1:40 PM Ping-Yu Zhou (Shanghai Skin Disease Hospital, China)
Circulating microRNAs as potential biomarkers for the diagnosis of neurosyphilis
- 1:41-1:55 PM Baoming Liu (Johns Hopkins University Hospital, USA)
Detection and clinical significance of inter-genotypic recombination in HBV reverse transcriptase gene among chronic hepatitis B patients
- 1:56-2:10 PM Xiuguang Guo (Southern Medical University, China)
Real-time fluorescence reverse transcription loop-mediated isothermal amplification for rapid detection of Zika virus
- 2:11-2:20 PM Hua Wang (The Ohio State University, USA) (Power talk)
Key drivers and innovative mitigation of antibiotic resistance, gut microbiota dysbiosis and corresponding modern diseases
- 2:21-2:30 PM Wenyuan Shi (The Forsyth Institute, USA) (Power talk)
Exploring the social structure of microbiome
- 2:31-2:50 PM Robin Patel, Mayo Clinic, USA
The diagnostics revolution – challenges and opportunities

3:00-4:30 PM

Sino-Micro Presidential Forum on Hot Topics:

(I): How to facilitate integration and impact delivery: fundamental, translational microbiology and global collaboration

(II) Microbiome, antibiotic resistance and synthetic biology: what are the paradigm-changing messages?

Convener(s): Wenyuan Shi, Frank Yang, Chuanwu Xi, Hua Wang (former and current Sino-Micro Presidents)

Expert panel members: Zixing Deng (President, CSM), Jian-guo Xu (China CDC), Yiwei Tang, Jizhong Zhou, Jim Tiedje, Vic DiRita, Steve Specter, Qijing Zhang, David Aronoff, Liping Zhao, Shuangjiang Liu (China Microbiome Initiative lead, Chinese Academy of Sciences Institute of Microbiology), Robin Patel (ASM President-elect), David Hooper (ASM former President), Jeff Miller (ASM former President, White House Microbiome Initiative lead), Guoping Zhao (CSM former President; China Microbiome Initiative and Synthetic Biology lead)

ASM Society Day Program Officers: Connie Herndon, Joe Campos