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SESSION **HMB-MC-001. Annual Meeting of the Oversea Chinese Society for Microbiology**

[Add to Itinerary](#)

June 13, 2024, 12:30 PM - 4:00 PM B314, GWCC

DESCRIPTION
This will be session with diverse research topics, attendees will learn the recent advancement in the study of bacteria that impact both the environment and human and animal health. Topics that cover microbiome and biochemical study of bacterial virulence factors will be also covered. Mechanism of antibiotic resistance and its mitigation.

Primary Track
Host-Microbe Biology

Learning Objective One
Learn recent progress in the role of bacterial in tumorigenesis

Learning Objective Two
Biochemical and structural study of virulence factors of important pathogens.

Learning Objective Three
Understand the mechanism of antimicrobial resistance and its mitigation.

P.A.C.E. Session Number
273-509-24

P.A.C.E. Credit Hours
2.5

CME Credit Hours

16 Presentations

12:30 PM - 4:00 PM	Convener Zhao-Qing Luo ; Purdue Univ., West Lafayette, IN	Add to Itinerary
12:30 PM - 12:45 PM	Introduction: Oliver He and Yi-Wei Tang	Add to Itinerary
12:45 PM - 1:40 PM	Session 1: Molecular mechanism of infection and antibiotic resistance	Add to Itinerary

2.5

CA/FL Credit Hours

2.5

12:45 PM - 1:05 PM

Amyloid FadA: a molecular switch converting *Fusobacterium nucleatum* from benign commensal to cancer-stimulating pathogen

Yiping Han; Columbia Univ., New York, NY

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1:05 PM - 1:20 PM

Microbiologic and comparative genomic analysis of a hyper-aerotolerant *Campylobacter jejuni* causing bloodstream infections in a pediatric immunocompromised patient

Benjamin Liu; George Washington Univ. Sch. of Med. and Hlth. Sci., Washington, DC

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1:20 PM - 1:40 PM

Understanding the evolution of antibiotic esistance using bacterial single-cell transcriptomics

P. Ma; St. Jude Hospital, TN

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1:40 PM - 1:50 PM

Break

Add to Itinerary

1:50 PM - 3:00 PM

**Session 2:
Microbiome and ecology research**

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1:50 PM - 2:10 PM

The biology, ecology, and pathogenesis of Saccharibacteria (TM7), the ultrasmall bacteria within human oral microbiome

Xuesong He; Forsyth Institite, Cambridge, MA

Add to Itinerary

2:10 PM - 2:25 PM

Label-free dissection and sorting of metabolic phenomes (e.g., heteroresistance) @ single-cell in microbiome via Raman Flow Cytometry

Jian Xu; Qingdao Inst. of BioEnergy and Bioprocess Technology (QIBEBT), Chinese Academy of Sci., Qingdao, China

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2:25 PM - 2:45 PM

Inter-Phylum Quorum Sensing Elevates *Vibrio cholerae* Virulence in Dysbiotic Human Gut Microbiota

J. Zhu;
University of Pennsylvania, Philadelphia, PA

Add to Itinerary

2:45 PM - 3:00 PM

Detection and characterization of microorganisms associated with lower respiratory tract infections by metagenomic next-generation sequencing (mNGS) of 27089 clinical samples across mainland China

Chengsheng Zhang;
The First Affiliated Hosp. Jiangxi Med. Coll. Nanchang Univ., Qingdao, China

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3:00 PM - 3:30 PM

Special Topics (Chairs: Oliver He and Zhao-Qing Luo)

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3:00 PM - 3:15 PM

Introduction to ASM Journals

Liyan Teng; American Society for Microbiol., Washington, DC

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3:15 PM - 3:30 PM

FlowRACS: High-throughput label-free single-cell profiling and sorting of microbiota for *in situ* functions and probiotics - Speaker: Ethan Yin

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3:30 PM - 4:00 PM

Sino-Micro Discussion - Coordinators: Oliver He, Jizhong Zhou, Yi-Wei Tang, Zhao-Qing Luo

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