

The 2nd Conference of  
**Metabolomics for Health** (CMH2026)

27-30th April 2026 | Shanghai, China



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## 27 April 2026 (Monday)

10:00 - 18:30	Registration
13:00 - 18:00	Training

## 28th April 2026 (Tuesday)

08:30 - 09:00	Registration
09:00 - 09:10	<b>Welcome Speech</b> Huiru TANG, Fudan University, China Chair: Jia LI, Imperial College London, UK
	<b>Futuristic Visions</b> Session Chairs: Huiru TANG / Jia LI
09:10 - 09:50	<b>Quantitative and Intelligent Biomedicines</b> Weihong Tan, Chinese Academy of Sciences, China
09:50 - 10:30	<b>Effects of Nanomaterials and New Methodologies</b> Chunying CHEN, Chinese Academy of Sciences, China
10:30 - 11:00	Coffee & Poster Session
	<b>New Technologies</b> Session Chairs: Yu BAI / Zhengjiang ZHU
11:00 - 11:20	<b>Deep-coverage single-cell metabolomics enabled by ion mobility-resolved mass cytometry</b> Zhengjiang ZHU, Chinese Academy of Sciences, China
11:20 - 11:40	<b>Single cell metabolomic platform and its applications</b> Yu BAI, Peking University, China
11:40 - 12:00	Q&A
12:00 - 13:00	Industrial talk
	<b>New Technologies</b> Session Chairs: Xudong WANG / Suming CHEN

13:00 - 13:20	<p><b>“Target all” as a strategy to improve metabolite identification and quantification</b></p> <p>Julien Wist, Murdoch University, Australia</p>
13:20 - 13:40	<p><b>Metabolites and proteins profiling in living cells, novel method and applications</b></p> <p>Guangming HUANG, University of Science and Technology of China</p>
13:40 - 14:00	<p><b>Online Extraction-Chromatographic Separation for Single-Cell Lipidome Analysis</b></p> <p>Sichun ZHANG, Tsinghua University, China</p>
	<p><b>New Technologies</b></p> <p>Session Chairs: Jinmin LIN / Sichun ZHANG</p>
14:00 - 14:20	<p><b>Real-time Profiling of single-cell energy metabolism phenotype</b></p> <p>Xudong WANG, Fudan University, China</p>
14:20 - 14:40	<p><b>Full Structural Resolution of Lipids at Isomer Level</b></p> <p>Suming CHEN, Wuhan University, China</p>
14:40 - 15:00	<p><b>Toward More Confident Metabolite Identification in LC-MS Metabolomics</b></p> <p>Li CHEN, Fudan University, China</p>
15:00 - 15:30	<p><b>Coffee &amp; Poster Session</b></p>
	<p><b>New Technologies</b></p> <p>Session Chairs: Fang WEI / Jiuming HE</p>
15:30 - 15:50	<p><b>Mass Spectrometry Imaging-Based Spatial Metabolomics: From Target Discovery to Novel Drug Screening and Evaluation</b></p> <p>Jiuming HE, Chinese Academy of Medical Sciences &amp; Peking Union Medical College, China</p>
15:50 - 16:10	<p><b>Analysis method and application of oxylipins based on chromatography-mass spectrometry technology</b></p> <p>Fang WEI, Chinese Academy of Agricultural Sciences, China</p>
16:10 - 16:30	<p><b>Quantitative and qualitative analysis of bile acids, key mediators of host-microbiota symbiotic interactions, using high-resolution mass spectrometry</b></p> <p>Paul Baker, SCIEX, USA</p>

16:30 - 16:50	<p><b>Exploring Bioactive metabolites in TCMs with Multi-Target Affinity Chromatography and Mass Spectrometry</b></p> <p>Mingquan GUO, Chinese Academy of Sciences, China</p>
16:50 - 17:05	<p><b>High Coverage Quantitative Lipidomic Analysis for Multiple Biological Matrices</b></p> <p>Qinsheng CHEN, Fudan University, China</p>
17:05 - 17:20	<p><b>Predict-to-Hit Strategies for De Novo Identification of Oxidized Triglycerides with Hybrid CID and EAD Fragmentation</b></p> <p>Xu LI, Nantong University, China</p>
17:20 - 17:35	<p><b>Single-cell Lipidome Analysis by Supercritical Fluid Chromatography-Mass Spectrometry</b></p> <p>Jinlei YANG, Tsinghua University, China</p>
17:35 - 18:05	<p><b>Q&amp;A</b></p>

## 29th April 2026 (Wednesday)

	<p><b>New Technologies</b></p> <p>Session Chairs: Shaohua HUANG / Yanchuan ZHAO</p>
08:30 - 08:50	<p><b>19F NMR Dynamic Labeling Strategy for Biometabolic Monitoring and High-Throughput Chiral Screening</b></p> <p>Yanchuan ZHAO, Chinese Academy of Sciences, China</p>
08:50 - 09:10	<p><b>Microfluidic Precise Chemical Manipulation of Subcellular Regions for Living Single Cell Analysis</b></p> <p>Jinming LIN, Tsinghua University, China</p>
09:10 - 09:30	<p><b>Discovery of Chiral Markers and Quality Control Methods in Traditional Chinese Medicine/Food</b></p> <p>Shaohua HUANG, Ningbo University, China</p>
09:30 - 09:50	<p><b>Key technologies of comprehensive components analysis of complex systems and their application in biomedicine</b></p> <p>Jianlin WU, Macau University of Science and Technology, China</p>
09:50 - 10:05	<p><b>Sulfonylation sites for adenine and its nucleosides/nucleotides</b></p> <p>Qi WANG, Fudan University, China</p>

10:05 - 10:20	<p><b>Differential Modulation of Gut Microbial Metabolomics by Kale and Dandelion: Freeze-Drying Preserves Bioactive Substrates for Enhanced SCFA Production</b></p> <p>Jiao XIAO, Shenyang Pharmaceutical University, China</p>
10:20 - 10:50	<b>Coffee &amp; Poster Session</b>
	<p><b>New Technologies</b></p> <p>Session Chairs: Qi WANG / Jianlin WU</p>
10:50 - 11:10	<p><b>Epoxy metabolites of linoleic acid promote the development of colorectal and breast cancer</b></p> <p>Junyan LIU, ChongQing Medical University, China</p>
11:10 - 11:30	<p><b>The application of CRISPR in cervical cancer diagnosis: From non-amplification detection to ultra-sensitive protein quantification</b></p> <p>Lei CHEN, Shandong Normal University, China</p>
11:30 - 12:00	<b>Q&amp;A</b>
12:00 - 13:05	<b>Industrial talk</b>
	<p><b>Metabolomics for Pathophysiology</b></p> <p>Session Chairs: Junfang WU / Elaine Holmes</p>
13:05 - 13:45	<p><b>Characterising functional microbiome in healthy aging</b></p> <p>Elaine Holmes, Murdoch University, Australia</p>
13:45 - 14:05	<p><b>Big-data driven precision medicine for neurodegenerative diseases</b></p> <p>Jintai YU, Huashan Hospital Fudan University, China</p>
14:05 - 14:25	<p><b>Intergenerational Metabolomics study in a 10-Year Follow-up Cohort of Gestational Diabetes Mellitus</b></p> <p>Baohong WANG, The First Affiliated Hospital of Zhejiang University School of Medicine, China</p>
14:25 - 14:45	<p><b>Role of microbiota-related metabolites in heart failure</b></p> <p>Junfang WU, Tongji Hospital, HUST, China</p>
14:45 - 15:05	<p><b>Systems Epidemiology of MASLD</b></p> <p>Zhenqiu LIU, Fudan University, China</p>

15:05 - 15:25	<b>Host-microbiota co-metabolism drives immune reprogramming in intestinal inflammation</b> Zhigang LIU, Zhejiang University, China
15:25 - 15:55	<b>Coffee &amp; Poster Session</b>
	<b>Metabolomics for Pathophysiology</b> Session Chairs: Yang XIA / Gang LIU
15:55 - 16:15	<b>Multi-Omics Empower Precision Prevention of Diabetic Complications</b> Gang LIU, Huazhong University of Science and Technology, China
16:15 - 16:30	<b>Erythrocyte hypoxic and metabolic regulator in aging and longevity</b> Yang XIA, Xiangya Hospital of Central South University, China
16:30 - 16:45	<b>Identification and validation of translatable obesity biomarkers using an integrated nontargeted metabolomics and lipidomics workflow</b> Danyue ZHAO, Hong Kong Polytechnic University, Hong Kong China
16:45 - 17:00	<b>Lipidomics in Support of the Discovery of Platelet CXCR7 as a Novel Antithrombotic Target</b> Xiaoqing FU, Shanghai University, China
17:00 - 17:15	<b>NMR-based quantitative lipoprotein subfractions and non-invasive diagnostic model of MASLD</b> Qingxia HUANG, Fudan University, China
17:15 - 17:30	<b>Electroacupuncture regulates glucose metabolism in cerebral ischemic mice via Irisin based on muscle-brain crosstalk</b> Xuan SHA, Shanghai University of Traditional Chinese Medicine, China
17:30 - 18:00	<b>Q&amp;A</b>

## 30th April 2026 (Thursday)

	<b>Host-Microbiota Interactions</b> Session Chairs: Jia LI / Sastia Putri
08:30 - 09:10	<b>Human microbiome in chronic diseases: from correlation to causation</b> Hongwei ZHOU, Zhujiang Hospital, Southern Medical University, China

09:10 - 09:30	<p><b>Rethinking the Gut Microbiome: Environment, Function, and the Path to Disease Prevention</b></p> <p>Jia LI, Imperial College London, UK</p>
09:30 - 09:50	<p><b>Precision Nutrition in Obesity-related Diseases— the role of the gut microbiota and microbial metabolites</b></p> <p>Yan ZHENG, Fudan University, China</p>
09:50 - 10:10	<p><b>Establishment of a platform to identify overlooked metabolites for novel functional food development</b></p> <p>Sastia Prama Putri, Osaka University, Japan</p>
10:10 - 10:30	<b>Coffee</b>
	<p><b>Host-Microbiota Interactions</b></p> <p>Session Chairs: Jutarop Phetcharaburanin / Hao WU</p>
10:30 - 10:50	<p><b>Nonlinear age-dependent remodeling of gut microbiome-plasma metabolome interactions and a quantitative interaction score for disease prediction</b></p> <p>Xiaotao SHEN, Nanyang Technological University, Singapore</p>
10:50 - 11:10	<p><b>Decoding Diet-Microbe-Host Interactions: Integrative Omics Insights into TMAO-Driven Cardiometabolic Risk and Microbiome-Targeted Interventions</b></p> <p>Jutarop Phetcharaburanin, Khon Kaen University, Thailand</p>
11:10 - 11:30	<p><b>Human gut microbiome researches over the last decade: current challenges and future directions</b></p> <p>Hao WU, Fudan University, China</p>
11:30 - 11:45	<p><b>Dietary Haem-Induced Region-Specific Modulation of the Gut Microbiota in Wild-Type Mice</b></p> <p>Xuan YANG, Imperial College London, UK</p>
11:45 - 12:00	<b>Q&amp;A</b>
12:00 - 13:00	<b>Industrial talk</b>
	<p><b>Exposome and Health</b></p> <p>Session Chairs: Bifeng YUAN / Zongwei CAI / Yulan WANG</p>

13:00 - 13:40	<p><b>Mass spectrometry determination of microbiota-mediated biotransformation of triclosan using mouse and spheroid cell models</b></p> <p>Zongwei CAI, Hong Kong Baptist University, Hong Kong China</p>
13:40 - 14:00	<p><b>Leveraging Artificial Intelligence to Illuminate the Toxic “Dark Matter” in Human Exposome</b></p> <p>Mingliang FANG, Fudan University, China</p>
14:00 - 14:20	<p><b>Metabolic Pathways Linking Early Pregnancy Exposure to Emerging Contaminants and Gestational Diabetes Mellitus</b></p> <p>Bifeng YUAN, Wuhan University, China</p>
14:20 - 14:35	<p><b>Prenatal Exposure to Tire-Derived Chemicals Perturbs the Maternal Metabolome: An Exposome-Metabolomics Framework Linking Environmental Mixtures to Early-Life Health</b></p> <p>Yanqiu ZHOU, Shanghai Jiao Tong University School of Medicine, China</p>
14:35 - 14:50	<p><b>Stage specific associations of mixed PFASs exposure with dysglycemia and diabetes progression</b></p> <p>Chunlan TANG, Ningbo University, China</p>
14:50 - 15:10	<p><b>Coffee</b></p>
15:10 - 15:50	<p><b>Quantitative Metabolomics: Challenges and Solutions</b></p> <p>Huiru TANG, Fudan University, China</p>
15:50 - 16:10	<p><b>Q&amp;A</b></p>
16:10 - 16:45	<p><b>Women in Science</b></p> <p>Panel: Elaine Holmes, Chunying CHEN, Sastia Prama Putri, Jia LI, Hongwei ZHOU, Zongwei CAI</p>
16:45 - 17:00	<p><b>Conclude</b></p> <p>Chair: Qi WANG</p>