

会议详细日程

Conference Agenda

2023 年 10 月 27 日 (27 October, 2023)		
14:00-20:00	会议注册 Conference Registration	华邑酒店 (1 楼大厅) HUALUXE Hotel
厂商交流会		
13:00-18:00	技术培训: 非靶向代谢组学数据分析	3 楼海沧厅
20:00-22:00	代谢组学分会 2023 年度理事会	3 楼金榜厅

2023 年 10 月 28 日 上午 (Morning 28 October, 2023)			
大会报告 Plenary speaker		(主持人: 朱正江、林树海)	厦门厅主会场
7:30-8:30	会议注册/Conference Registration		
8:30-9:00	开幕式/Opening Ceremony		
时间/Time	报告人/Speaker	题目/Title	
9:00-9:40	唐惠儒 复旦大学 Huiru Tang, Fudan University	Metabonomics: Advances and Challenges	
9:40-10:20	Jia Li Imperial College London, UK	Exploring Nutrition and Gut Health Through Metabolic Phenotyping	
10:20-10:50	集体照/Photograph		
10:50-11:30	Matej Oresic Orebro University, Sweden/University of Turku, Finland	Gut Microbiome as Mediator of Chemical Exposome - Host Metabolism Crosstalk	
11:30-12:00	许国旺 中国科学院大连化学物理研究所 Guowang Xu, Dalian Institute of Chemical Physics, Chinese Academy of Sciences	从小分子看健康 Insights into Health from Small Molecules	
12:00-13:00	午餐/Lunch		
13:00-13:45	公司午餐会和墙报交流/ Lunch Seminar and Poster Session		
时间/Time	钻石白金展商 (厦门厅主会场)	时间/Time	金牌展商 (厦门厅分会场)

第三届中国生物物理学会代谢组学分会年会暨 2023 代谢组学国际研讨会

13:00-13:15	SCIEX	13:00-13:15	上海中科新生命生物科技
13:15-13:30	赛默飞	13:15-13:30	上海拜谱生物科技
13:30-13:45	布鲁克	13:30-13:45	杭州凯莱谱精准医疗检测技术

2023 年 10 月 28 日 下午 (Afternoon 28 October, 2023)		
Session 1 代谢组学技术 1 (主持人: 杭纬、朱正江) 厦门厅主会场		
时间/Time	报告人/Speaker	题目/Title
14:00-14:30	Liang Li University of Alberta, Canada	Deep Metabolome Analysis of Micro-Samples
14:30-14:50	杭纬 厦门大学 Wei Hang , Xiamen University	High Spatial Resolution Mass Spectrometry Techniques for Single Cell Imaging
14:50-15:10	张四纯 清华大学 Sichuan Zhang , Tsinghua University	单细胞代谢物质谱流式分析方法研究 Study on Mass Cytometry of Single Cell Metabolites
15:10-15:30	黄光明 中国科学技术大学 Guangming Huang , University of Science and Technology of China	Metabolite Profiling and Identification in Single Living Cell
15:30-15:50	汪夏燕 北京工业大学 Xiayan Wang , Beijing University of Technology	完整活单细胞电发射电离质谱方法用于单细胞代谢组学分析 Intact living-cell electrolaunching ionization mass spectrometry for single-cell metabolomics
15:50-16:10	休息/Break	
Session 2 代谢组学技术 2 (主持人: 吕海涛、袁必锋) 厦门厅主会场		
16:10-16:30	Yulan Wang Nanyang Technological University, Singapore	Mass Spectrometry Imaging - A Novel Technology to Explore Metabolic Heterogeneity in Liver Cancer
16:30-16:50	冯钰琦 武汉大学 Yuqi Feng , Wuhan University	Retention Index for Metabolomics Analysis
16:50-17:10	朱正江 中科院上海有机化学研究所 Zhengjiang Zhu , Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences	质谱驱动精准代谢组学技术 Mass Spectrometry-driven Precision Metabolomics Technology
17:10-17:30	吕海涛 香港浸会大学 Haitao Lv , Hong Kong Baptist University	多模态交叉分子科学驱动的功能代谢组学 Functional Metabolomics and Biomedical Applications Driven by Multimodal Interdisciplinary Molecular Science
17:30-17:50	袁必锋 武汉大学 Bifeng Yuan , Wuhan University	RNA 修饰的分析鉴定及代谢通路研究 Identification of RNA Modifications and Investigations of Metabolic Pathways
17:50-18:10	贺玖明 中国医学科学院药物研究所 JiuMing He , Institute of Materia Medica, Chinese Academy of Medical Science	高清质谱成像空间分辨代谢组学新技术与应用 Emerging Technologies and Innovative

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		Applications of High Spatial Resolution Mass Spectrometry Imaging for Metabolomics
18:10-18:25	Daniel Hermanson Thermo Fisher	Next Generation Metabolomics Workflows for Precision Medicine Using the Orbitrap Astral Mass Spectrometer
18:30-20:00	晚餐/Dinner (一楼自助餐厅)	

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Session 3 代谢组学技术与应用 (主持人: 姜长涛、王旭东) 厦门厅分会场

时间/Time	报告人/Speaker	题目/Title
14:00-14:30	姜长涛 北京大学 Changtao Jiang , Peking University	肠道菌源酶在代谢性疾病中的作用 The Functions of Intestinal Bacterial-derived Enzymes in Metabolic Diseases
14:30-14:50	秦雪梅 山西大学 Xuemei Qin , Shanxi University	代谢流技术解析抑郁症有氧糖酵解代谢转变 Metabolic Flux Analysis Reveals Aerobic Glycolytic Metabolic Alterations in Depression
14:50-15:10	聂宗秀 中国科学院化学研究所 Zongxiu Nie , Institute of Chemistry, Chinese Academy of Sciences	基于生物流体代谢物的质谱相关疾病早筛早诊 Early Disease Screening and Diagnosis by Mass Spectrometry Analysis of Biological Fluid Metabolites
15:10-15:30	王旭东 复旦大学 Xudong Wang , Fudan University	活细胞线粒体能量代谢的原位测量技术 <i>In Situ</i> Measurement Techniques for Mitochondrial Energy Metabolism in Living Cells
15:30-15:50	朱洪影 中国科学技术大学 Hongying Zhu , University of Science and Technology of China	基于人工智能的超分辨空间代谢组学技术 AI-based Super-resolution Spatial Metabolomics Technology
15:50-16:10	休息/Break	

Session 4 疾病代谢组学 (主持人: 靳津、林东海) 厦门厅分会场

16:10-16:30	靳津 浙江大学 Jin Jin , Zhejiang University	The Metabolic Disorder of T Cells Leads to Neurological and Bowel Diseases
16:30-16:50	郑乐民 北京大学 Lemin Zheng , Peking University	代谢组学与心脑血管疾病研究 Metabolomics and Cardiovascular Disease

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		Research
16:50-17:10	钱旭 南京医科大学 Xu Qian , Nanjing Medical University	Sensing Endogenous and Exogenous Metabolites for Tumor Progression
17:15-17:30	郑晓皎 上海交通大学附属第六人民医院 Xiaojiao Zheng , Shanghai Sixth People's Hospital Affiliated to Shanghai JiaoTong University	Bile Acids and Metabolic Diseases
17:30-17:45	李勤喜 厦门大学 Qinxi Li , Xiamen University	Hepatic Conversion of Acetyl-CoA to Acetate Plays Crucial Roles in Energy Stresses
17:45-18:00	林东海 厦门大学 Donghai Lin , Xiamen University	Metabolic Regulation of Critical Metabolites: Insights from NMR-based Metabonomic Analysis in Skeletal Muscle
18:30-20:00	晚餐/dinner (一楼自助餐厅)	

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Session 5 药物代谢组学 (主持人: 尹慧勇、许风国)

厦门厅主会场

时间/Time	报告人/Speaker	题目/Title
8:30-8:50	尹慧勇 香港城市大学 Huiyong Yin , City University of Hong Kong	Fatty Acid Oxidation-induced HIF-1alpha Activation Facilitates Hepatic Urate Synthesis Through Upregulating NT5C2 and XDH
8:50-9:10	林金明 清华大学 Jinming Lin , Tsinghua University	微流控质谱联用细胞药物代谢分析方法研究 Cell Analysis of Drug Metabolism on Microfluidics Combined with Mass Spectrometry
9:10-9:25	陈文连 上海中医药大学 Wenlian Chen , Shanghai University of Traditional Chinese Medicine	Metabolomic Studies Provide New Mechanistic Insights into the Pathogenesis of Esophageal Squamous Cell Carcinoma
9:25-9:40	许风国 中国药科大学 Fengguo Xu , China Pharmaceutical University	衍生化液质联用代谢组学分析新方法开发及其应用 Development of Liquid Chromatography-Mass Spectrometry Derivatization Methods for Metabolomics Analysis
9:40-9:55	王保红 浙江大学 Baohong Wang , Zhejiang University	Altered Gut Microbial Metabolites in Human Health and Disease
9:55-10:05	顾耀华 武汉大学 Yaohua Gu , Wuhan University	Plasma Metabolomic Profiling and Biomarker Panel Selection Using Machine Learning for Patients in Different Stages of Chronic Kidney Disease

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10:05-10:20	Jose Castro-Perez SCIEX	Alternative Fragmentation EAD Workflows using HRMS for Metabolite Characterization
10:20-10:40	休息/Break	
Session 6 脂质组学技术 (主持人: 白玉、姚红艳) 厦门厅主会场		
时间/Time	报告人/Speaker	题目/Title
10:40-11:00	税光厚 中科院遗传与发育生物学研究所 Guanghou Shui , Institute of Genetics and Developmental Biology, Chinese Academy of Sciences	多组学分析助力功能脂质及脂质代谢调控新发现 Multi-Omics Analysis for Discovery of Functional Lipids and Lipid Metabolism Regulation
11:00-11:20	白玉 北京大学 Yu Bai , Peking University	基于多组学的偏头痛患者代谢特征研究 Multi-Omics Characterization of Metabolic Features for Migraine Patients
11:20-11:40	张金兰 中国医学科学院药物研究所 Jinlan Zhang , Institute of Materia Medica, Chinese Academy of Medical Science	Profile Bile Acids in Dried Blood Spot Using UHPLC-MS/MS Method
11:40-11:55	岳蜀华 北京航空航天大学 Shuhua Yue , Beijing University of Aeronautics and Astronautics	Lipid Metabolic Profiling via Quantitative Stimulated Raman Scattering Imaging Opens up New Avenues for Precision Medicine
11:55-12:10	姚红艳 复旦大学 Hongyan Yao , Fudan University	Plant Lipidomic Homeostasis and Regulation in Response to Environmental Factors
12:10-13:00	午餐/Lunch	

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Session 7 环境代谢组学 (主持人: 方明亮、狄利俊) 厦门厅分会场

时间/Time	报告人/Speaker	题目/Title
8:30-8:50	方明亮 复旦大学 Mingliang Fang , Fudan University	Oligomer-Finder: Non-target Screening of Polymer Oligomers in Environmental and Human Samples
8:50-9:05	狄利俊 澳门大学 Lijun Di , University of Macau	Role of CtBP in Cancer: A Central Hub Connecting Growth, Migration and Death
9:05-9:20	石先哲 中国科学院大连化学物理研究所 Xianzhe Shi , Dalian Institute of Chemical Physics, Chinese Academy of Sciences	单细胞/亚细胞代谢组学分析技术及应用 Development of Single-Cell/Subcellular Metabolomics Analysis Techniques

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9:20-9:35	赵超 中国科学院深圳先进技术研究院 Chao Zhao , Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences	Mass Spectrometry Imaging-based Multi-modal Technique for Tumor Metabolism
9:35-9:50	刘心昱 中国科学院大连化学物理研究所 Xinyu Liu , Dalian Institute of Chemical Physics, Chinese Academy of Sciences	代谢组学生物样本质量控制及在重大疾病研究中的应用 Quality Control of Biological Samples in Metabolomics and its Applications in Major Disease Research
9:50-10:05	曾珺 集美大学 Jun Zeng , Jimei University	Neurodevelopmental Effect of Deltamethrin Exposure on Hypothalamic Neurogenesis in Zebrafish (<i>Danio Rerio</i>): A Lipidomics Perspective
10:05-10:20	张洁 厦门大学 Jie Zhang, Xiamen University	PM2.5 组分与新生儿神经行为评分的关联及胎便代谢组的中介效应 The Association Between PM2.5 Components and Neonatal Neurobehavioral Scores, and the Mediating Effect of Meconium Metabolomics
10:20-10:40	休息/Break	

Session 8 代谢组学数据分析 (主持人: 董继扬、卢红梅) 厦门厅分会场

时间/Time	报告人/Speaker	题目/Title
10:40-11:00	卢红梅 中南大学 Hongmei Lu , Central South University	AI-driven Mass Spectrometry-based Identification of Small Molecule
11:00-11:15	林晓惠 大连理工大学 Xiaohui Lin , Dalian University of Technology	基于图神经网络的代谢组学数据分析方法 Graph Neural Network Based Metabolomics Data Analysis
11:15-11:30	吴彩胜 厦门大学 Caisheng Wu , Xiamen University	MS-XDF 系列软件工具助力临床诊疗生物标志物的发掘 MS-XDF Series Software for Exploration of Clinical Diagnostic and Therapeutic Biomarkers
11:30-11:45	董继扬 厦门大学 Jiyang Dong , Xiamen University	Network-based Data Analysis for Metabolomics
11:45-12:00	戴紫薇 南方科技大学 Ziwei Dai , Southern University of Science and Technology	Thermodynamics, Control, and Design Principles of Metabolic Networks
12:00-12:10	赵秀举 武汉轻工大学 Xiuju Zhao , Wuhan Polytechnic University	代谢组 NMR 数据的处理能力和可解释性 Processing Capacity and Interpretability of NMR Metabolomics Data
12:10-13:00	午餐/Lunch	

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Session 9 青年科学家论坛 1 (主持人: 杨立峰、鲁洪中)

海沧厅

时间/Time	报告人/Speaker	题目/Title
8:30-8:45	郑亮 上海交通大学附属儿童医学中心 Liang Zheng , Shanghai Children's Medical Center	线粒体缺陷型肾细胞癌的代谢重塑与临床应用 Metabolic Remodeling and Clinical Applications of Mitochondrial-deficient Renal Cell Carcinoma
8:45-9:00	王琳 中国医学科学院北京协和医学院 Lin Wang , Chinese Academy of Medical Sciences & Peking Union Medical College	Spatially-resolved Metabolic Flux Analysis: Pitfalls and Promises
9:00-9:15	杨立峰 中国科学院上海营养与健康研究所 Lifeng Yang , Shanghai Institute of Nutrition and Health, CAS	Isotope Tracing Reveals Plasticity in Metabolism
9:15-9:30	陈立 复旦大学 Li Chen , Fudan University	Identification of Metabolite Interference Is Necessary for Accurate LC-MS Metabolomics Analysis
9:30-9:45	张文鹏 清华大学 Wenpeng Zhang , Tsinghua University	脂质异构体串联质谱成像分析方法及应用 Development and Application of Lipid Isomer Tandem Mass Spectrometry Imaging Analysis Methods
9:45-10:00	马潇潇 清华大学 Xiaoxiao Ma , Tsinghua University	单细胞结构脂质组学及生物医学应用 Single-cell Structural Lipidomics and Biomedical Applications
10:00-10:15	鲁洪中 上海交通大学 Hongzhong Lu , Shanghai Jiao Tong University	Quantitative Prediction of Yeast Phenotypes Based on Digital Cell Models
10:15-10:30	赵爽 厦门市迈理奥科技有限公司	高覆盖率定量分子表型分析的代谢组学与脂质组学平台 Metabolomics and Lipidomics Platforms for High Coverage Quantitative Molecular Phenotyping Analysis
10:30-10:45	代伟伟 西交利物浦大学 Weiwei Dai , Xi'an Jiaotong-liverpool University	Glutamine Synthetase Limits β -catenin-mutated Liver Cancer Growth by Maintaining Nitrogen Homeostasis and Suppressing mTORC1
10:45-11:00	胡寓旻 中山大学 Yumin Hu , Sun Yat-sen University	参比物质构建在临床大队列代谢组学数据中的分析方法及应用 Analytical Methods and Applications of

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		Reference Substance Construction in Clinical Large-scale Metabolomics Datasets
11:00-11:10	丁俊 中国科学院武汉植物园 Jun Ding , Wuhan Botanical Garden, Chinese Academy Of Sciences	衰老小鼠的脑代谢组图谱 Metabolic Atlas of Aging Mouse Brain
11:10-11:20	罗名都 中科院上海有机化学研究所 Mingdu Luo , Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences	基于离子淌度质谱的四维代谢组学精准分析技术 Met4DX Precise Analysis Technique of Four-Dimensional Metabolomics Based on Ion Flux Mass Spectrometry (Met4DX)
11:20-11:30	侯壮豪 中国科学技术大学 Zhuanghao Hou , University of Science and Technology of China	Single-Cell Metabolic Mass Spectrometry Revealed the Anti-Tumor Mechanism of NK Cell in Liver Cancer
11:30-11:40	程晓玥 复旦大学 Xiaoyue Cheng, Fudan University	Sulfonylation Sites of Nucleobases, Nucleosides and Nucleotides
11:40-11:50	孙玉婷 中国科学院精密测量科学与技术创新研究院 Yuting Sun, Innovation Academy for Precision Measurement Science and Technology, CAS	Revealing Molecular Phenotypes for Chiral Carboxylic Acids in Multiple Human Matrices with the Probe-assisted Sensitivity-Enhanced Quantitative Metabolomics Using Liquid Chromatography with Tandem Mass Spectrometry
11:50-12:00	童灵锋 上海交通大学医学院 Lingfeng Tong , Shanghai Jiao Tong University School of Medicine	Transketolase is a Critical Modulator of Inosine Metabolism and Function in Hepatocytes
12:00-12:10	栾合密 广东工业大学 Hemi Luan , Guangdong University of Technology	高通量、精准代谢组学方法在免疫代谢调节中的应用研究 Application of High-Throughput and Precise Metabolomics Methods in Immunometabolic Regulation Research
12:10-13:00	午餐/Lunch	

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公司午餐会和墙报交流/ Lunch Seminar and Poster Session

时间/Time	金牌展商 (主会场) /Gold Exhibitors (Main venue)	时间/Time	优秀墙报评选/Poster Selection
13:00-13:15	上海百趣生物医学科技	13:00-14:00	优秀墙报评选 Excellent Poster Selection
13:15-13:30	山东英盛生物技术		
13:30-13:45	厦门市迈理奥科技		

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Session 11 代谢物及其功能研究 (主持人: 朱大海、林树海)

厦门厅主会场

时间/Time	报告人/Speaker	题目/Title
14:00-14:25	朱大海 广州生物岛实验室/中国医学科学院基础医学研究所 Dahai Zhu , Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences & Bioland Laboratory, Guangzhou	Unexpected paracrine and endocrine role of MyoD in regulating muscle metabolism
14:25-14:45	林树海 厦门大学 Shuhai Lin , Xiamen University	Mass Spectrometry-based Metabolite Discovery and Functional Studies
14:45-15:00	休息/Break	

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Session 10 青年科学家论坛 2 (主持人: 王佳宁、董继扬)

厦门厅分会场

时间/Time	报告人/Speaker	题目/Title
14:00-14:15	王佳宁 香港浸会大学 Jianing Wang , Hong Kong Baptist University	基于基质辅助激光解吸二次电离的高分辨率高灵敏空间代谢流成像 High Spatial Resolution Metabolic Flux Imaging by Matrix Assisted Laser Desorption Secondary Ionization
14:15-14:25	王成 山东大学 Cheng Wang , Shandong University	MPI-VGAE: Protein-metabolite Enzymatic Reaction Link Learning by Variational Graph Autoencoders
14:25-14:35	郭成 浙江大学医学院 Cheng Guo , Zhejiang University School of Medicine	基于 HILIC-MS/MS 的临床样本核酸修饰分析及应用 HILIC-MS/MS-based nucleic acid modification analysis of clinical samples and its applications
14:35-14:45	林灵 复旦大学 Ling Lin , Fudan University	Time-resolved Metabolite and Lipid Profiling Depicts Macrophage Continuum with Apoptotic and Ferroptotic Heterogeneity Along Foam cell Formation
14:45-15:00	休息/Break	

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Session 12 大会闭幕式 (主持人: 唐惠儒、朱正江、林树海) 厦门厅主会场

时间/Time	报告人/Speaker	题目/Title
15:00-15:30	罗杰 海南大学 Jie Luo, Hainan University	Genetic Dissection of the Diversity of Plant Metabolome
15:30-16:00	再帕尔·阿不力孜 中央民族大学 Zeper Abliz, Minzu University of China	质谱成像技术与空间分辨代谢组学研究进展 Advances in Mass Spectrometry Imaging and Spatially Resolved Metabolomics
16:00-16:30	王喜军 黑龙江中医药大学 Xijun Wang, Heilongjiang University of Chinese Medicine	方证代谢组学驱动的中医药治疗疾病原理解读 Mechanism of Traditional Chinese Medicine in Disease Treatment Driven by Chinmedomics
16:30-17:10	邓子新 上海交通大学/武汉大学 Zixin Deng, Shanghai Jiao Tong University/Wuhan University	模拟和重塑微生物代谢秘诀的合成生物学创新之路 The Innovative Path of Synthetic Biology for Simulating and Recreating Microbial Metabolic Secrets
17:10-17:30	闭幕式/Closing Ceremony 优秀墙报奖颁奖	