2019 International Conference on Metabolic Sciences

Systematic Metabolic Sciences: Driving Force for Human Future

Hotel Golden Tulip Rainbow, 2000 West Yan'an Road, Shanghai http://www.icms-sjtu.org

2019/11/20					
	Registration (Lobby, 1F)				
	2019/11/21				
Opening Ceremony (Tulip Ballroom, 2F) Chair: Linquan Bai, Shanghai Jiao Tong University					
08:30-08:40	Opening Address				
08:40-08:50	Signing Ceremony of MoU for Educational and Scientific Cooperation between SJTU and ICL				
08:50-09:00	Ceremony of SynBioFoundry (SJTU) Joining Global Biofoundries Alliance				
09:00-09:30	Zixin Deng, Shanghai Jiao Tong University Intelligent Bio-Design for the Innovative Bio-Industrialization				
09:30-09:50	Group Photo				
Plenary Session (Tulip Ballroom, 2F) Chairs: Guoping Zhao, Shanghai Institute of Plant Physiology and Ecology, CAS Ningyi Zhou, Shanghai Jiao Tong University					
09:50-10:30	Paul Freemont, Imperial College London, UK In vitro Synthetic Biology - Using Cell Free Extracts to Prototype Parts Biosynthetic Pathways and Rapidly Access Xenobiotics in a Test Tube				
10:30-11:10	Huimin Zhao, University of Illinois at Urbana-Champaign, USA Discovery and Engineering of Novel Natural Products via Synthetic Biology				
11:10-11:50	Liping Zhao, Shanghai Jiao Tong University Foundation Species and Essential Guilds: Ecological Understanding of the Causative Role of Gut Microbiota in Human Health				

	Session I Fundamental Metabolic Sciences (Tulip Ballroom A, 2F) Chairs: Jiemin Weng, East China Normal University Xiang Xiao, Shanghai Jiao Tong University	Session II Drug Discovery and Healthcare (Tulip Ballroom B, 2F) Chairs: Yong Wang, Shanghai Institutes for Biological Sciences, CAS Jiahai Zhou, Shanghai Institute of Organic Chemistry, CAS
13:15-13:50 Keynote Lecture	Haruyuki Atomi, Kyoto University, Japan The Unique Metabolism in Archaea	Ming Lei, Ninth People's Hospital, Shanghai Jiao Tong University Cancer-testis Antigen SAGE1 Hijacks the Integrator Complex to Promote Tumorigenesis
13:50-14:15	Qiang Wu, Shanghai Jiao Tong University CRISPR 3D Genome	Zichun Hua, Nanjing University Bacteria as Tumor-targeting Cancer Therapy Agent
14:15-14:40	Hiroshi Shimizu, Osaka University, Japan Integration of in Silico Genetic Modification Design and Adaptive Laboratory Evolution to Increase in Productivity of Target Compounds	Taifo Mahmud, Oregon State University, USA Synthetic Biology and Metabolic Engineering of Natural Sunscreens
14:40-15:05	Chen Yang, Shanghai Institute of Plant Physiology and Ecology, CAS Stable Isotope Tracing and Metabolic Flux Analysis	Xudong Qu, <i>Shanghai Jiao Tong University</i> Biosynthesis of Plant Tetrahydroisoquinoline Alkaloids through an Imine Reductase Route
15:05-15:20	Coffee Break	
15:20-15:55 Keynote Lecture	Jiahai Zhou, Shanghai Institute of Organic Chemistry, CAS Structural Insights into Natural Product Biosynthesis	Chenli Liu, Shenzhen Institutes of Advanced Technology, CAS Quantitative Engineering Biology: Build-to-Learn-to-Build
15:55-16:20	Yuzhong Zhang, Shandong University Molecular Insight into Bacterial Metabolism of Oceanic Dimethylsulfoniopropionate (DMSP)	Haifeng Ye, East China Normal University Chinese Green Tea Meets Synthetic Biology
16:20-16:45	Tao Dong, <i>Shanghai Jiao Tong University</i> Engineering a Microbial Weapon for Delivery of Cargo Proteins	Jianhua Ju, South China Sea Institute of Oceanology, CAS Biosynthesis and Resistance of Cytorhodin from Streptomyces sp. SCSIO166
17:00-18:00	Poster Session (Magnolia Room 白玉兰厅, 2F) / S	Sponsor Exhibition (Creativity Room 创意工坊, 2F)

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	Session III Metabolic Engineering and Synthetic Biology (Tulip Ballroom A, 2F) Chairs: Weihong Jiang, Shanghai Institute of Plant Physiology and Ecology, CAS Xiaoxia Xia, Shanghai Jiao Tong University	Session IV Biomanufacture and Bioprocessing (Tulip Ballroom B, 2F) Chairs: Jianjiang Zhong, Shanghai Jiao Tong University Shuangjun Lin, Shanghai Jiao Tong University
08:30-09:05 Keynote Lecture	Patrick Yizhi Cai, <i>University of Manchester, Manchester Institute of Biotechnology, UK</i> Rapid Pathway Prototyping and Engineering in Yeast with YeastFab and SCRaMbLE System	Johan Thevelein, Leuven University, Belgium Development of Superior Industrial Yeast Strains for First - and Second-generation Bioethanol and Bio-based Chemicals Production
09:05-09:30	Qi Zhang, <i>Fudan University</i> Discovery and Biosynthesis of Ribosomally Synthesized and Posttranslationally Modified Peptides (RiPPs)	Jianhe Xu, East China University of Science and Technology Engineering Enzymes for Biomanufacturing
09:30-09:55	Min Jiang, Nanjing Technology University Bioconversion of Methanol into Organic Acid Using Model Microbes	Ping Xu, Shanghai Jiao Tong University Molecular Microbiology: Enzymes and Value-added Chemicals via Microbial Catabolism of EnvironmEntal Molecules
09:55-10:10	Coffee	Break
10:10-10:45 Keynote Lecture	Tilmann Weber, Novo Nordisk Foundation Center for Biosustainability, DTU, Denmark Integration of Informatics and Metabolic Engineering for the Discovery and Analysis of Natural Products	Lixin Zhang, East China University of Science and Technology Harnessing Cellular Triacylglycerol Pool for Titer Improvement of Polyketides in Streptomyces
10:45-11:10	Chun Li, Beijing Institute of Technology Licorice Triterpenoids Synthesized by Saccharomyces cerevisiae	Qipeng Yuan, Beijing University of Chemical Technology Strategies for Construction of Efficient Microbial Cell Factories: Enzyme, Pathway and Metabolic Network
11:10-11:35	Chao Zhong, Shanghai Technology University Engineering Living Functional Materials with Synthetic Biology	Yong Tao, Institute of Microbiology, CAS Harassing Central Carbon Metabolism for Goods
11:35-12:00	Shengying Li, Shandong University Multi-engineering of Cytochrome P450 Enzymes for Better Biocatalytic Parts in Synthetic Biology	Fengwu Bai, Shanghai Jiao Tong University Self-flocculation of Zymomonas mobilis and its Potential Applications for Biorefinery

Plenary Session (Tulip Ballroom, 2F)			
Chairs: Yan Feng, Shanghai Jiao Tong University			
Tilmann Weber, Novo Nordisk Foundation Center for Biosustainability, DTU, Denmark			
14:00-14:40	Ikuro Abe, Tokyo University, Japan		
	Engineered Biosynthesis of Medicinal Natural Products		
14:40-15:20	Tiangang Liu, Wuhan University		
	From Farnesene to Vitamin E to Lycopene and Beyond		
15:20-15:40	Coffee Break		
15.40 16.20	Gongli Tang, Shanghai Institute of Organic Chemistry, CAS		
15:40-16:20	Extracellular Biology in Tetrahydroisoquinoline Antibiotics Biosynthesis		
16:20-17:00	Renxiang Tan, Nanjing University		
	Symbionts, a Promising Source of New Bioactive Compounds and Biocatalysts		
17:00-17:30	Closing Ceremony & Poster Award		