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imes INTERNATIONAL METABOLIC ENGINEERING SOCIETY

IMES

Metabolic Engineering Summit 2026

Program and Handbook

IMES

Dalian, China | 18-22,October 2026

- Organizers:

  Dalian Institute of Chemical Physics, CAS
  International Metabolic Engineering Society

- Co-organizers:

18-22,October 2026
Dalian, China



Metabolic Engineering Summit 2026

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01. Conference Organization

Organizers

Dalian Institute of Chemical Physics, CAS

International Metabolic Engineering Society

Co-organizers

State Key Laboratory of Green Biomanufacturing, Beijing University of Chemical Technology

Key Laboratory of Bio-Intelligent Manufacturing, Ministry of Education, Dalian University of Technology

Jiangsu Provincial Key Laboratory of Industrial Synthetic Biology, Jiangnan University

State Key Laboratory of Synthetic Biology, Tianjin University

State Key Laboratory of Microbial Metabolism, Shanghai Jiao Tong University

State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology

Key Lab for Industrial Biocatalysis, Ministry of Education, Tsinghua University

State Key Laboratory of Microbial Technology, Shandong University

School of Food Science and Pharmaceutical Engineering, Nanjing Normal University

State Key Laboratory of Engineering Biology for Low-Carbon Manufacturing, Tianjin Institute of Industrial Biotechnology, CAS

State Key Laboratory of Quantitative Synthetic Biology, Shenzhen Institute of Synthetic Biology, Shenzhen Institutes of Advanced Technology, CAS

Division of Advanced Biomanufacturing, Qingdao Institute of Bioenergy and Bioprocess Technology, CAS

Dalian Institute of Marine Traditional Chinese Medicine

Microbial Metabolism and Biomanufacturing Professional Committee

One Carbon Biotechnology Professional Committee, Chinese Society of Biotechnology

As the world-leading conference in the field, this bi-annual event, initiated by the International Metabolic Engineering Society (IMES) in 2015, gathers leading experts to share state-of-the-art advancements in metabolic engineering and synthetic biology. The summit explores how metabolic engineering is revolutionizing key sectors, from biomanufacturing and agriculture to medicine.

We are proud to announce that the Metabolic Engineering Summit 2026 (MES2026) will be hosted by the Dalian Institute of Chemical Physics. Please join us from October 18-22, 2026, in Dalian, China—a city renowned for science and culture.

We warmly invite scientists, industry leaders, and students from across the globe to participate in this dynamic exchange on the future of metabolic engineering.

02. Welcome Speech



Yongjin Zhou

Chair of MES2026

Dalian Institute of Chemical Physics, CAS



Hal Alper

Chair of MES2026

The University of Texas at Austin



Tianwei Tan

Chair of MES2026

Beijing University of Chemical Technology

03. Committees

International Advisory Committee (Sort by initial)

Jian Chen	Zixin Deng	He Huang	Jay Keasling	Sang Yup Lee
Jens Nielsen	Gregory Stephanopoulos	Yingjin Yuan	Hanjie Ying	Anping Zeng
Yuguo Zheng				

International Organizing Committee (Sort by initial)

Lars M. Blank	Linquan Bai	Irina Borodina	Matthew Chang	Byung-Kwan Cho
Guo-Qiang Chen	Yan Feng	Martin Grininger	Tomohisa Hasunuma	Rodrigo Ledesma-Amaro
Chun Li	Shengying Li	Bingzhi Li	Chenli Liu	Long Liu
Liming Liu	Zheng Liu	Yunzi Luo	Xuefeng Lv	Esteban Marcellin
Lars K. Nielsen	Pablo Ivan Nikel	Qingsheng Qi	Haijia Su	YaoJun Tong
Chaoguang Tian	Xiaoxia Xia	Jian Xu	Jianhe Xu	Xiaowo Wang
Christoph Wittmann	Bian Wu	Chuang Xue	Bangce Ye	Qipeng Yuan
Sheng Yang	Lixin Zhang	Dawei Zhang	Xing Zhang	Chao Zhong
Jingwen Zhou	Zongbao Zhao			

Session Chairs

Parallel Session 1: Next-Generation Feedstock for Metabolic Engineering	Esteban Marcellin, Yong-Su Jin, Bingzhi Li
Parallel Session 2: The cutting-edge technologies for Metabolic Engineering	Chun Li, Long Liu, Bangce Ye, Rodrigo Ledesma-Amaro
Parallel Session 3: Frontiers in Synthetic and Systems Biotechnology	Guo-Qiang Chen, Yongjin Zhou
Parallel Session 1: Modeling, Big Data, and Artificial Intelligence	Xiaowo Wang, Yingping Zhuang, Vassily Hatzimanikatis
Parallel Session 2: Biomanufacturing: From Lab to Industry	Guo-Qiang Chen, Jian Xu, Ramon Gonzalez
Parallel Session 1: Next-Generation Chassis for Metabolic Engineering	Xuefeng Lv, Chaoguang Tian, Pablo Ivan Nikel
Parallel Session 2: Adaptive Evolution and Protein Engineering	Shengying Li, Bian Wu, Yan Feng, Martin Grininger
Young Scientist Forum | Postgraduate Panel Session	Yaojun Tong, Yongqin Lv, Codruta Ignea, Hyun Uk Kim

04. Program at a Glance

Sunday, October 18		
Morning	Registration	1F Shangri-La Hotel Lobby
	Young Scientist Forum	3F Ballroom A+B
	Postgraduate Panel Session	3F Ballroom C
Evening	Poster Session	3F Dalian Ballroom
Monday, October 19		
Morning	Opening Ceremony & Group Photo	3F Grand Ballroom
	Plenary & Keynote & Rapid Fire Talk	
Afternoon	Parallel Session 1: Next-Generation Feedstock for Metabolic Engineering	3F Ballroom A+B
	Parallel Session 2: The cutting-edge technologies for Metabolic Engineering	3F Ballroom C
	Parallel Session 3: Frontiers in Synthetic and Systems Biotechnology	3F Guangzhou Room
Evening	"Meet the Editors" Forum	3F Ballroom A+B
	Poster Session	3F Dalian Ballroom
Tuesday, October 20		
Morning	Parallel Session 1: Modeling, Big Data, and Artificial Intelligence	3F Ballroom A+B
	Parallel Session 2: Biomanufacturing: From Lab to Industry	3F Ballroom C
Afternoon	Parallel Session 1: Next-Generation Chassis for Metabolic Engineering	3F Ballroom A+B
	Parallel Session 2: Adaptive Evolution and Protein Engineering	3F Ballroom C
Evening	Poster Session	3F Dalian Ballroom
Wednesday, October 21		
Morning	Plenary & Keynote	3F Grand Ballroom
	Awards & Closing Ceremony	

Online Detailed Program | Abstract book | Live Photo Coverage

- Scan the QR code to access the detailed program, abstract book and live photo coverage of MES2026.

05. Guidelines for Speakers

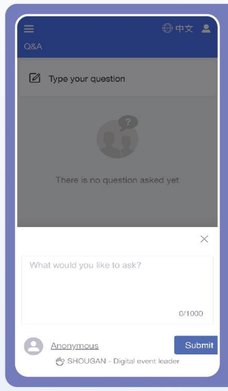
Allotted Time

- Plenary Lecture: 25 min
- Keynote Lecture: 15 min
- Invited Lecture: 10 min
- Oral Presentation: 7min
- Young Scientist Forum: 8 min
- Postgraduate Panel Session: 8 min
- Rapid Fire Talk: 2 min

- The official conference language is English.
- To maintain the overall flow, a dedicated joint Q&A session will be arranged at the end of each thematic session.
- Modes of Interactive Q&A:
  - Opt. 1: On-site verbal questions
  - Opt. 2: Online question submission



Demo QR code only
Attendees may scan the QR code available in the on-site Q&A session.



Scan the QR code to fill in the form:
Presenter +Your question

E.g. To Jiaoqi Gao: What is the biggest challenge in your research?

Presentation File Compatibility

Presentation format: PDF slides or PowerPoint slides in a **16:9** aspect ratio, prepared for Windows.

For presentations prepared on a Mac, please use fonts that are compatible with Microsoft Office for Windows to avoid formatting problems. To ensure smooth session transitions and prevent delays, all presenters are strongly advised to check the compatibility of their presentation files in advance.

1. Please bring a copy of your presentation on a USB flash drive and upload it to the conference computer at least **2 hours before your presentation.** For presentations scheduled in the first morning session, please upload your file **the day before**. On-site staff will assist you in checking that all fonts, audio files, and video clips display and play correctly.
2. If you are unable to provide your presentation file in advance, please upload it to the conference computer at least **30 minutes before the session begins**. To save time and ensure smooth transitions between presentations, the use of personal laptops is not encouraged.
3. Should you need to use your own laptop, please contact the presentation management staff well in advance of your session to ensure that your equipment can be properly connected and tested.

All presentation files will be deleted from the conference computers at the end of the conference.

01 02 03 04 05 Guidelines for Speakers 06 07 08 09 10 11 12 13

06. Guidelines for Poster and Rapid Fire Talk Session

Poster Session

- Posters must be prepared in English and should be **90 cm wide × 120 cm high**. Please display your poster on the board corresponding to your assigned poster number. Adhesive tape will be provided on site.
- This poster session features dedicated time slots for focused discussions:
  - 20:00-22:00, October 18, 2026
  - 20:00-22:00, October 19, 2026
  - 20:30-22:30, October 20, 2026
- Location: **3F Dalian Ballroom**
  - Set-up Time: Before 12:00 on Monday, October 19, 2026
  - Removal Time: After 12:00 on Wednesday, October 21, 2026
- Please ensure that your poster is mounted and removed within the designated times. Posters not removed by the specified time will be considered abandoned and may be disposed of by the organizers.

Rapid Fire Talk Session

Rapid Fire Talk session will be held on 19th October, 2026, in the Grand Ballroom. Each talk must be strictly limited to 2 minutes.

! Outstanding Poster Awards and Outstanding Rapid Fire Talk Awards will be awarded honorably during Closing Ceremony.

07. Scientific Program in Detail

Online Detailed Program

Opening Ceremony & Plenary Lectures

Monday, October 19, 2026 I 3F Grand Ballroom

Time	Type	Title	Speaker	Affiliation
08:30-08:45	Opening Ceremony	Welcome Speech	Feng Wang	Dalian Institute of Chemical Physics, CAS
		Opening Speech	Yongjin Zhou	
		Group Photo		
Chair: Yingjin Yuan, Yongjin Zhou				
08:45-09:10	PL	DNA Modification by Sulfur: Mechanistic Insight Drive SynBioTec Foward	Zixin Deng	Shanghai Jiao Tong University
09:10-09:35	PL	Accelerating Metabolic Engineering with AI and Robotics	Huimin Zhao	University of Illinois at Urbana-Champaign
09:35-09:50	KN	Transforming food production for sustainability: microbes to eat CO_2; humans to eat microbes	Ron Milo	Weizmann Institute of Science
09:50-10:05	KN	Biomanufacturing of Aromatic Compounds	Qipeng Yuan	Beijing University of Chemical Technology
10:05-10:15	Q&A			
10:15-10:30	Coffee Break			
Chair: Lixin Zhang, Qipeng Yuan				
10:30-10:45	KN	Engineering fatty acid synthase to control chain length and its application in yeast	Martin Grininger	University Frankfurt
10:45-11:00	KN	Microbial Cell Factories Manufacture Plant Natural Products	Chun Li	Tsinghua University
11:00-11:15	KN	Glucose-driven evolution of *Pseudomonas putida* awakens catabolism of lignocellulose-derived pentoses	Pablo Ivan Nikel	Technical University of Denmark
11:15-11:30	KN	Engineering Microbes for Dynamic Host-Microbiome Modulation	Matthew Chang	National University of Singapore
11:30-11:40	Q&A			

Online Detailed Program

Opening Ceremony & Plenary Lectures

Chair: Pablo Ivan Nikel

Time	Type	Title	Speaker	Affiliation
11:40-11:42	FT	Engineered Commensals for Metabolic Modulation of the Gut-Liver-Brain Axis	Nikhil Aggarwal	National University of Singapore
11:42-11:44	FT	Expanding the biosynthetic capability of *Corynebacterium glutamicum* for lutein production	Hyunmin Eun	Korea Advanced Institute of Science and Technology
11:44-11:46	FT	Multi-omics analysis reveals the impact of LincRNA deletion on yeast protein synthesis	Ling Qin	South China University of Technology
11:46-11:48	FT	Engineering *Penicillium rubens* as a Next-Generation Fungal Chassis for Flavonoid Biosynthesis	Bo Peng	VIB-KU Leuven Center for Microbiology
11:48-11:50	FT	Complementary Yeast Biosensors for Intracellular and Extracellular Lactate	Xiang Li	Chalmers University of Technology
11:50-11:52	FT	Global analysis of natural product diversity from extreme environments reveals vast untapped biosynthetic potential	Ian Yunus	Singapore Institute of Food and Biotechnology Innovation (SIFBI),Agency for Science, Technology and Research (A*STAR)
11:52-11:54	FT	Synthesis of aromatic PHAs as sustainable hot-melt adhesives	Minju Kang	Korea Advanced Institute of Science and Technology
11:54-11:56	FT	Rational design of self-assembling protein scaffolds for enzyme performance reconstruction and efficient cascade catalysis	Yiwei Meng	Jiangnan University
11:56-11:58	FT	Enhancing PgUGT activity and thermostability via mutation site screening aided by molecular docking structure and computer-aided design for efficient industrial synthesis of Rebaudioside D	Shengding Wang	South China University of Technology
11:58-12:00	FT	Rewiring carbon-nitrogen metabolism and remodeling methyltransferase enables high-level de novo melatonin biosynthesis in yeast	Yuyao Ren	Dalian Institute of Chemical Physics, CAS
12:00-12:02	FT	Engineering all human milk oligosaccharide fucosidic linkages in planta	Sophia Tang	University of California, Berkeley
12:02-13:30	Buffet Lunch			

Online Detailed Program

Plenary Lectures & Closing Ceremony

Wednesday, October 21, 2026 I 3F Grand Ballroom

Time	Type	Title	Speaker	Affiliation
Chair: Helge B. Bode, Long Liu				
08:30-08:55	PL	Developing biomanufacturing to support China's Dual-carbon goals	Tianwei Tan	Beijing University of Chemical Technology
08:55-09:20	PL	Systems metabolic engineering of microorganisms for the biomanufacturing of chemicals and materials	Sang Yup Lee	Korea Advanced Institute of Science and Technology / Metabolic Engineering
09:20-09:35	KN	Extremophilic Biomanufacturing	Guo-Qiang Chen	Tsinghua University
09:35-09:50	KN	From Marginal Gains to Major Improvements in Yeast Cell Factories	Kevin Verstrepen	VIB-KU Leuven Center for Microbiology
09:50-10:05	KN	Engineering Mixed Cultures for Gas Fermentation: Converting Biogas into Sustainable Protein	Esteban Marcellin	The University of Queensland
10:05-10:20	Q&A			
10:20-10:35	Coffee Break			
Chair: Guo-Qiang Chen, Sang Yup Lee				
10:35-10:50	KN	Making peptides the non-ribosomal way: possibilities & limitations	Helge B. Bode	Max-Planck-Institute for Terrestrial Microbiology
10:50-11:05	KN	Biomanufacturing of future food ingredients: From lab to industry	Long Liu	Jiangnan University
11:05-11:10	Q&A			
11:10-11:35	Xueming Zhao Lectureship Award			
11:35-12:00	Awards & Closing Ceremony			
12:00-13:30	Buffet Lunch			

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Online Detailed Program

Young Scientist Forum

Young Scientist Forum (3F Ballroom A+B)

Sunday, October 18, 2026 | Session Chair: Yaojun Tong, Yongqin Lv, Codruta Ignea, Hyun Uk Kim

Time	Title	Speaker	Affiliation
Reviewer: Ewelina Celinska, Johannes Rebelein, Wenming Zhang, Xiaolin Shen, Yating Hu			
13:30-13:45	Guidance Talk	Matthew Chang	National University of Singapore
13:45-13:55	Growth-coupled selection drives evolution of Rubisco promiscuity towards formate-based glycolate production	Enrico Orsi	Technical University of Denmark
13:55-14:03	MAP of the future: Establishing a next-generation C1 biofoundry at BRIGHT	Rikke Rasmussen	Technical University of Denmark, BRIGHT
14:03-14:11	Short-chain Alcohols Fueled Orthogonal Conversion of Pyruvate via a Non-natural Cofactor	Xiaojia Guo	Dalian University of Technology
14:11-14:19	Engineering *Schizochytrium* as a Next-Generation Cell Factory for Functional Lipid Biosynthesis	Wang Ma	Nanjing Normal University
14:19-14:27	Biomanufacturing of Omega Fatty Acids Driven by Synthetic Biology	Kaifeng Wang	Nanjing Tech University
14:27-14:35	Microbial Synthesis of 4'-O-methylnorbelladine, the Universal Precursor of Amaryllidaceae alkaloids	Maria Francisca Villegas Torres	Universidad de los Andes
14:35-14:43	Small RNAs Enable Programmable Metabolic Engineering at Conjugated Polymer–Microbe Interfaces	Yuanmei Liang	University of Singapore
14:43-14:51	Ancestral Reconstruction Reveals a Flavin-Shielding Design Principle for Photostable Fatty Acid Photodecarboxylases	Guang Yang	Nanjing Normal University
14:51-14:59	Rational Engineering of Cytochrome P450 Catalysis overcomes Biosynthetic Bottlenecks for Microbial Manufacturing of Complex Natural Products	Keith Yamada	University of Turku
14:59-15:07	Design of a Novel Diamine Biosensor to Guide the Engineering of *Escherichia coli* for Cadaverine Overproduction	Jia Feng	Nanjing Tech University
15:07-15:15	Multichromatic Dynamic Control of Multi-Membered Microbial Consortia Compositions for Chemical Production	Jaewan Jang	Princeton University
15:15-15:23	A hybrid system enables plasmid copy number control in yeast	Anni Li	Xiamen University
15:23-15:31	An efficient microbial secretion platform for scalable production of protein-based materials from C2 feedstocks	Xinyu Yu	Tsinghua University
15:31-15:45	Q&A		
15:45-16:00	Coffee Break		

Time	Title	Speaker	Affiliation
16:00-16:08	PCR Leaping Enables High-Throughput Cloning of Biosynthetic Gene Clusters	Xinglin Jiang	Technical University of Denmark
16:08-16:16	Low-pH-Driven Succinic Acid Biomanufacturing: Chassis Optimization and Metabolic Remodeling of *Yarrowia lipolytica*	Zhiyong Cui	Shandong University
16:16-16:24	Development of Advanced Gene Expression Tools for Bacillus licheniformis: Engineered Translation Systems and Dynamic Induction Platforms for Microbial Cell Factory Applications	Qin Wang	Hubei University
16:24-16:32	Construction and Optimization of Biosynthetic Pathways for Multiple Organic Acids	He Liu	Nanjing Normal University
16:32-16:40	Biosystem design of *Corynebacterium glutamicum* cell factory for producing biochemicals from lignocellulosic biomass	Kai Li	Shanghai Jiao Tong University
16:40-16:48	Efficient genome editing for oleaginous yeast *Rhodotorula toruloides*	Liting Lv	Dalian University of Technology
16:48-16:56	ESTEEM Strategy: Revolutionizing Enzymatic Catalysis through the Evolutionary Gateway of Enzyme Tunnels	Ruyue Dong	Biotechnology Research Institute, CAAS
16:56-17:04	Model-Driven Dynamic Circuit Design for Quorum-Sensing Activation at High Cell Densities	Bahareh Arab	University of Waterloo
17:04-17:12	Establishing Vibrio natriegens as a high-performance host for acetate-based poly-3-hydroxybutyrate production	Roland Politan	The University of Western Australia
17:12-17:20	Iterative dissolved-oxygen control combined with growth–production coordination enables efficient erythritol biosynthesis in *Yarrowia lipolytica* under high-temperature stress	Wenxin Bai	Tsinghua University
17:20-17:28	Development of a Sustainable Process for Manufacturing Aquaculture Feed	Wei Jiang	The Univeristy of Queensland
17:28-17:36	Synthetic Biology Platform for Production of Novel Anthracycline Anticancer Agents	Rongbin Wang	University of Turku
17:36-17:50	Q&A		
18:00-20:00	Welcome Banquet		
20:00-22:00	Poster Session		

Online Detailed Program

Postgraduate Panel Session

Postgraduate Panel Session (3F Ballroom C)

Sunday, October 18, 2026 | Session Chair: Yaojun Tong, Yongqin Lv, Codruta Ignea, Hyun Uk Kim

Time	Title	Speaker	Affiliation
Reviewer: Codruta Ignea, Hyun Gyu Lim, Huadong Peng, Zhiwei Zhu, Jin Hou			
13:30-13:38	Enhancement of Pyruvate Derivative Production in Methanotrophic Bacteria via Integrated Carbon Fixation and CRISPR Base Editing	Xiaohan Huang	Xi'an Jiaotong University
13:38-13:46	Development of a Cell-Free Enzymatic Cascade for CO_2-to-Formaldehyde Conversion	Tanya Ou	National Yang Ming Chiao Tung University
13:46-13:54	Improved Metabolic Flux Estimations through Compositional Data Analysis	Te Chen	Technical University of Denmark
13:54-14:02	Discover the maze-like network for glabridin biosynthesis	Faze Meng	Tsinghua University
14:02-14:10	Construction of a multi-copy system with flexible engineering space based on rDNA autonomous regeneration	Xiaolin Rao	Xiamen University
14:10-14:18	Functional Characterization of Enone Oxidoreductase Orthologs Highlights Hidden Furaneol Biosynthetic Capacity in Apples	Chan Li	Technische Universität München
14:18-14:26	Green Biosynthesis of the Cosmetic Humectant Isoprene Glycol in *Escherichia coli* via Metabolic Engineering	Jenny Ji-Chan Hung	National Yang Ming Chiao Tung University
14:26-14:34	Metabolic rewiring of oleaginous yeast for efficient production of the aromatic compound tyrosol	Xin Wang	Nanjing Tech University
14:34-14:42	Cardamine hupingshanensis: an emerging plant chassis to produce Selenolanthionine and sugar-associated selenium metabolites	Yuhua Duan	Xi'an Jiaotong-Liverpool University
14:42-14:50	Construction of an efficient and universal *Yarrowia lipolytica* chassis for the biosynthesis of pterocarpans and their derivatives	Shujing Qiao	Tianjin Institute of Industrial Biotechnology, CAS
14:50-14:58	Solar-driven biosynthesis of chemicals from phosphite-rich wastewater and carbon dioxide	Haotian Zheng	Shanghai Jiao Tong University
14:58-15:06	Development of a novel biocatalyst for renewable formaldehyde production	KUEI-CHIEH HUNG	National Yang Ming Chiao Tung University
15:06-15:14	Improving extracellular electron transfer of *Zymomonas mobilis* to build an industrial electroactive microbial chassis	Wentao Wang	Shanghai Jiao Tong University
15:14-15:22	Variation in the synthesis of specialized metabolites in *Erythroxylum coca*: A biotechnological approach using callus cultures	Sarha García	Universidad de Los Andes- Master
15:22-15:30	Ethylene glycol as a bridge from sustainable carbon to microbial products	Michelle Feigis	University of Toronto
15:30-15:40	Q&A		
15:40-15:55	Coffee Break		
15:55-16:03	Ino80-mediated regulation of nitrogen metabolism and targeted epigenome engineering of stress tolerance in *Saccharomyces cerevisiae*	Bing Yuan	Shanghai Jiao Tong University
16:03-16:11	Metabolic engineering *Methylobacterium extorquens* AM1 for biosynthesis of 1,4-Butanediol and succinic acid	Yushan Liu	National Yang Ming Chiao Tung University
16:11-16:19	Multi-step Metabolic Engineering Optimization of *Escherichia coli* BL21 Star (DE3) for High-efficient Production of Hydroxytyrosol	Weijian Jin	University of Science and Technology of China
16:19-16:27	Synthetic ATP auxotrophy enables control over cellular carbon and electron flow	Jan Lukas Krüsemann	Charité-Universitätsmedizin Berlin
16:27-16:35	Metabolic Engineering of *Methylorubrum extorquens* AM1 for P(3HB-co-4HB) Biosynthesis from Methanol	Billy Hung	National Yang Ming Chiao Tung University
16:35-16:43	Engineering a synthetic CH_2-THF carbon-entry module enables formate assimilation through a redesigned metabolic architecture	Yuchen Wang	Westlake University
16:43-16:51	Genome-Guided Sugarcane Bagasse Bioconversion by *Bacillus* sp. T2 and Exometabolomic Discovery of Value-Added Product Candidates	Tingmei Li	Guangxi University of Science and Technology
16:51-16:59	Engineering yeast *Yarrowia lipolytica* for De Novo Biosynthesis of psychedelic compounds	Baode Sun	The University of Queensland
16:59-17:07	Claim-Level Forensic Reconstruction of Metabolic-Engineering Evidence Chains	Forest Savage	Oregon State University
17:07-17:15	AlphaGEM enables precise genome-scale metabolic modelling by integrating protein structure alignment with deep-learning-based dark metabolism mining	Weishang Han	Shanghai Jiao Tong University
17:15-17:23	Precision engineering of probiotics with prime editing	Pei-Ru Chen	Shandong University
17:23-17:31	Improving Mevalonate Yield through a Synthetic Threonine Pathway	Teresa Pei-Ju Tsai	National Yang Ming Chiao Tung University
17:31-17:39	Rewiring pyruvate synthesis improves cell growth of Clostridium ljungdahlii during microbial electrosynthesis	Chaeho Im	Pusan National University
17:39-17:47	An AI-assisted genome-scale metabolic atlas of Y1000+ yeasts reveals dark metabolism, cross-scale diversity and mitochondrial specialization	Luchi Xiao	Shanghai Jiao Tong University
17:47-18:00	Q&A		
18:00-20:00	Welcome Banquet		
20:00-22:00	Poster Session		

Online Detailed Program

Parallel Sessions

Parallel Session 1
Next-Generation Feedstock for Metabolic Engineering (3F Ballroom A+B)

Monday, October 19, 2026 I Session Chair: Esteban Marcellin, Yong-Su Jin, Bingzhi Li

Time	Type	Title	Speaker	Affiliation
Chair: Esteban Marcellin, Zongbao Kent Zhao				
13:30-13:45	KN	Engineering microbes for a multidimensional circular economy – plastic monomers to OH-fatty acids as an example	Lars M. Blank	RWTH Aachen University
13:45-14:00	KN	Engineering red yeast-based cell factories	Zongbao Kent Zhao	Dalian University of Technology
14:00-14:15	KN	Synthetic biology and process engineering facilitate the highly efficient production of rhamnolipid	Min Jiang	Nanjing Tech University
14:15-14:25	IL	The BRIGHT Biofoundry: Translating Biological Data into Biosolutions — from Pest Control to Human Nutrition and further	Jochen Förster	Technical University of Denmark, BRIGHT
14:25-14:35	IL	An RNA-Tethering Platform for Target-Specific Translation Enhancement	Ji-Sook Hahn	Seoul National University
14:35-14:45	IL	Customizing Micro-Grain for Nutrient Production Through Low-Carbon Microbial Manufacturing	Guokun Wang	Tianjin Institute of Industrial Biotechnology, CAS
14:45-14:55	IL	Synthetic Biology-Enabled Lignin Valorization via Artificial Funneling Pathways and Metabolic Engineering	Zhihua Liu	Tianjin University
14:55-15:02	OP	A Cross-Feeding *Yarrowia lipolytica*-*Pseudomonas putida* Consortium for Efficient Valorization of Lignocellulosic Oligosaccharides	Jorge Barriuso	Consejo Superior de Investigaciones Científicas
15:02-15:09	OP	Biological Upcycling of Methane into Multicarbon Chemicals by Metabolically Engineered Methanotrophs	Shuqi Guo	Xi'an Jiaotong University
15:09-15:16	OP	Bioproduction Valuable Acetyl-CoA Derivatives with *Rhodotorula toruloides*	Xiaobing Yang	Northwest A&F University
15:16-15:35	Q&A			
15:35-15:55	Coffee Break			
Chair: Lars M. Blank, Ji-Sook Hahn				
15:55-16:10	KN	Engineering Microbial Cell Factories for Precision Biomanufacturing of Chondroitin Sulfate	Liming Liu	Jiangnan University
16:10-16:25	KN	Bioconversion of Lignocellulosic Biomass to Fuels and Chemicals via DLC Sugar Platform	Mingjie Jin	Nanjing University of Science and Technology
16:25-16:35	IL	Synthetic Domestication of Environmental Bacteria for Efficient Biorefineries	Hyun Gyu Lim	Inha University
16:35-16:45	IL	Advanced methanotrophic cell factory for methane-to-multi-carbon bioconversion	Qiang Fei	Xi'an Jiaotong University
16:45-16:55	IL	Acetoin Bioproduction from H_2 and CO_2 with *Methanothermobacter thermautotrophicus*	Bastian Molitor	Leipzig University
16:55-17:05	IL	Engineering Yeast Cell Factories for Circular Biomanufacturing from Waste Feedstocks	Sun-Mi Lee	Korea University
17:05-17:12	OP	Harnessing Microbial Metabolic Repertoire for Biological Upcycling of Wastes: Towards Sustainable Development	Jinjin Diao	Guangdong Technion-Israel Institute of Technology
17:12-17:19	OP	Bioconversion for Ursodeoxycholic Acid Using β-Cyclodextrin Included-Chenodeoxycholic Acid via Immobilized Cells of Xanthomonas maltophilia	Qingxi Wu	Anhui University
17:19-17:26	OP	Mechanism Elucidation of Efficient Organic Acids Production in Industrial Filamentous Fungi	Xiaoxi Zhang	Qingdao Institute of Bioenergy and Bioprocess Technology, CAS
17:26-17:45	Q&A			
18:00-20:00	Buffet Dinner			
20:00-22:00	Poster Session			

Online Detailed Program

"Meet the Editors" Forum (3F Ballroom A+B)

Monday, October 19, 2026

Time	Speaker	Affiliation
Chair: Yongjin Zhou		
19:00-19:10	Francesco Zamberlan	Nature Catalysis / Nature Chemical Biology
19:10-19:20	Yunling Xie	Nature Metabolism
19:20-19:25	Sang Yup Lee	Metabolic Engineering
19:25-19:30	Jian Xu	Green Carbon
19:30-19:35	Guo-Qiang Chen	Synthetic and Systems Biotechnology
19:35-19:45	Atin Sharma	Nature Microbiology
19:45-19:55	Fraser Andrews	Nature Communications
19:55-20:00	Shengying Li	Engineering Microbiology
20:00-20:05	Qing Yu	Vita Microbiology
20:05-20:45	Q&A	
20:45-22:00	Poster Session	

Online Detailed Program

Parallel Session 2
The cutting-edge technologies for Metabolic Engineering (3F Ballroom C)

Monday, October 19, 2026 | Session Chair: Chun Li, Long Liu, Bangce Ye, Rodrigo Ledesma-Amaro

Time	Type	Title	Speaker	Affiliation
Chair: Rodrigo Ledesma-Amaro, Shuyi Zhang				
13:30-13:45	KN	Discovery and engineering of plant chemistry for plant and human health	Xiaoguang Lei	Peking University
13:45-14:00	KN	Spatiotemporal Control of Metabolism via Engineered Membraneless Organelles	Xiaoxia Xia	Shanghai Jiao Tong University
14:00-14:10	IL	Writing Genomes and Metagenomes, and the Advent of Synthetic Evolution	Marc GÜELL	Universitat Pompeu Fabra
14:10-14:20	IL	Synthetic genetic control systems for smart living therapeutics	Ningzi Guan	East China Normal University
14:20-14:30	IL	RNA splicing regulators for gene network and metabolic programming	Yuanli Gao	Zhejiang University
14:30-14:40	IL	Engineering SOS-Responsive DNA Damage Circuits for High-Precision CRISPR Genome Editing	Rongming Liu	Dalian University of Technology
14:40-14:50	IL	Engineering Tailoring Reactions for Efficient Natural Product Biosynthesis	Xiaolin Shen	Beijing University of Chemical Technology
14:50-15:00	IL	Synthetic yeast communities and cell factories for biosustainability	Huadong Peng	The University of Queensland
15:00-15:07	OP	Open Fermentation Enabled by Enhanced Cellular Robustness: Mining and Design of Stress-Resistance Parts	Haitao Yue	Xinjiang University
15:07-15:15	OP	Accelerating the DBTL Cycle: Echo MS+ Enables Million-Scale Screening in Synthetic Biology	Jingjing Fang	Shanghai AB Sciex Analytical Instrument Trading Co., Ltd.
15:15-15:35	Q&A			
15:35-15:55	Coffee Break			

Time	Type	Title	Speaker	Affiliation
Chair: Chun Li, Xiaoxia Xia				
15:55-16:10	KN	Deciphering the Pyrethrins Biosynthetic Pathway and Heterologous Reconstitution in *Nicotiana benthamiana*	Tiangang Liu	Shanghai Jiao Tong University
16:10-16:20	IL	Mapping the Sequence-Function Landscape of Proteins and Biological Systems	Shuyi Zhang	Tsinghua University
16:20-16:30	IL	Synthetic biology strategies for enhanced production of aromatic polyketides in *E. coli*	Dongsoo Yang	Korea University
16:30-16:40	IL	Semi-artificial photosynthesis enables light-driven biomanufacturing in non-photosynthetic bacteria	Xing Zhang	Nanjing Normal University
16:40-16:50	IL	Production of etoposide and teniposide in yeast to protect endangered plant	Yating Hu	Capital Medical University
16:50-17:00	IL	Engineer enzymes and cellular metabolism for the synthesis of specialty/unusual fatty acids	Zhiwei Zhu	Dalian University of Technology
17:00-17:07	OP	Harnessing photoenzymatic reactions for unnatural biosynthesis in microorganisms	Yujie Yuan	Nankai University
17:07-17:14	OP	Carbon- and Cost-Efficient Upcycling of Agrifood Waste into Fatty Acid Esters by Systematically Engineered *Clostridium tyrobutyricum*	Zhengming Zhu	Nanjing Tech University
17:14-17:21	OP	De novo production of polycyclic polyprenylated acylphloroglucinols in engineered microbes	Benye Liu	Technische Universität Braunschweig
17:21-17:40	Q&A			
18:00- 20:00	Buffet Dinner			
20:00- 22:00	Poster Session			

Online Detailed Program

Parallel Session 3
Frontiers in Synthetic and Systems Biotechnology (3F Guangzhou Room)

Monday,October 19, 2026 I Session Chair: Guo-Qiang Chen, Yongjin Zhou

Time	Type	Title	Speaker	Affiliation
Chair: Jiazhang Lian				
13:30-13:50	KN	*Yarrowia lipolytica* as a chassis for synthetic biology: from genome editing to metabolic engineering	Qingsheng Qi	Shandong University
13:50-14:10	KN	Rethinking Fermentation: Freeing Production from Redox Constraints	Steffen Lindner	Charité-Universitätsmedizin Berlin
14:10-14:25	IL	Engineering Modular Polyketide Synthases via Domain-Domain Interaction Design	Lihan Zhang	Westlake University
14:25-14:40	IL	Enabling Fluorinated Molecule Biosynthesis: From Biocatalysis to Engineered *Streptomyces* Cell Factories	Yunzi Luo	Tianjin University
14:40-14:55	IL	Global reprogram of regulation and metabolism for secondary metabolite production	Weishan Wang	Institute of Microbiology, CAS
14:55-15:10	IL	Conversion of syngas-derived C2 carbon sources to C2+ biochemicals by microbial cell factories	Hui Wu	Dalian University of Technology
15:10-15:25	IL	Engineering *Bacillus methanolicus* for methanol-based biomanufacturing of amino acids and single cell proteins	Yu Wang	Tianjin Institute of Industrial Biotechnology, CAS
15:25-15:40	Q&A			
15:40-16:00	Coffee Break			

01 02 03 04 05 06 07 Scientific Program in Detail 08 09 10 11 12 13

Time	Type	Title	Speaker	Affiliation
Chair: Yunzi Luo				
16:00-16:20	KN	Manufacturing Plant Natural Products by Microorganisms	Jingwen Zhou	Jiangnan University
16:20-16:40	KN	Metabolic engineering of microorganisms toward sustainable biomanufacturing of chemicals and polymers	Si Jae Park	Ewha Womans University
16:40-17:00	KN	Regulation and Engineering of Monoterpenoid Indole Alkaloid Biosynthesis	Jiazhang Lian	Zhejiang University
17:00-17:15	IL	Systematic analysis of signal peptides for engineering protein secretion in yeast	Mingtao Huang	South China University of Technology
17:15-17:30	IL	Design and Optimization of Artificial Biological Carbon Fixation Systems	Wenming Zhang	Nanjing Tech University
17:30-17:45	IL	Repurposing *Ogataea polymorpha* into a superior microbial platform for bio-productions	Jiaoqi Gao	Dalian Institute of Chemical Physics, CAS
17:45-18:00	Q&A			
18:00-20:00	Buffet Dinner			
20:00-22:00	Poster Session			

Online Detailed Program

Parallel Session 1
Modeling, Big Data, and Artificial Intelligence (3F Ballroom A+B)

Tuesday,October 20, 2026 | Session Chair: Xiaowo Wang, Yingping Zhuang, Vassily Hatzimanikatis

Time	Type	Title	Speaker	Affiliation
Chair: Xiaowo Wang, Daniel R. Weilandt				
08:30-08:45	KN	Toward precise kinetic models of acetogen metabolism	Lars K. Nielsen	The University of Queensland
08:45-09:00	KN	AI and systems approach for multiscale optimization in biomanufacturing	Hyun Uk Kim	Korea Advanced Institute of Science and Technology
09:00-09:10	IL	AI4S Empowering Biomanufacturing	Xiaozhou Luo	Shenzhen Institutes of Advanced Technology, CAS
09:10-09:20	IL	AI agents for microbial cell factory design	Hongwu Ma	Tianjin Institute of Industrial biotechnology, CAS
09:20-09:30	IL	Biosensor-guided genetic circuits for dynamic control of sustainable biomanufacturing	Pablo Carbonell	Institute for Integrative Systems Biology CSIC / UV
09:30-09:40	IL	Advancing Cellular Digital Modeling through Artificial Intelligence	Hongzhong Lu	Shanghai Jiao Tong University
09:40-09:48	OP	M.I.A. — A Deterministic Bioprocess AI Agent	Jingyan Jiang	T&J Bio-Engineering (Shanghai) Co.,Ltd.
09:48-10:05	Q&A			
10:05-10:25	Coffee Break			

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Time	Type	Title	Speaker	Affiliation
Chair: Hyun Uk Kim, Fengxue Xin				
10:25-10:40	KN	Designing Gene Regulatory Programs with AI	Xiaowo Wang	Tsinghua University
10:40-10:55	KN	The Development of Ultraviolet Laser Dissociation-Structural Mass Spectrometry	Fangjun Wang	Dalian Institute of Chemical Physics, CAS
10:55-11:05	IL	AI-driven quantification of tissue metabolic fluxes *in vivo*	Daniel R. Weilandt	Princeton University
11:05-11:15	IL	AI-driven digital cell modeling for cell factory design	Feiran Li	Tsinghua University
11:15-11:25	IL	Rational design of metabolic engineering strategies based on modulating the expression of transcription factors	Zoran Nikoloski	Universität Potsdam
11:25-11:45	Q&A			
12:00-13:30	Buffet Lunch			

Online Detailed Program

Parallel Session 1
Next-Generation Chassis for Metabolic Engineering (3F Ballroom A+B)

Tuesday,October 20, 2026 I Session Chair: Xuefeng Lv, Chaoguang Tian, Pablo Ivan Nikel

Time	Type	Title	Speaker	Affiliation
Chair: Pablo Ivan Nikel, Chaoguang Tian				
13:30-13:45	KN	Engineering Microbial Cells and Communities for Sustainable Food Biomanufacturing	Rodrigo Ledesma-Amaro	Imperial College London
13:45-14:00	KN	Engineering Methanotrophs for Value-added Bioproduct Synthesis from C1 Gases	Eun Yeol Lee	Kyung Hee University
14:00-14:10	IL	Modulating gene co-expression and metabolic flux in the yeast *Saccharomyces cerevisiae* by harnessing the regulatory plasticity of divergent transcription	Codruta Ignea	McGill University
14:10-14:20	IL	Beyond Pathway Engineering: Matching Chassis to Feedstocks and Products	Lucilia Domingues	University of Minho
14:20-14:30	IL	Rewiring energy homeostasis in *Yarrowia lipolytica* enables efficient terpenoid biosynthesis	Jin Hou	Shandong University
14:30-14:40	IL	Developing continuous evolution systems for enhancing microbial protein bioproduction	Yanfeng Liu	Jiangnan University
14:40-14:50	IL	A Versatile Genetic Toolbox for Metabolic Engineering of Xylose-Utilizing *Scheffersomyces stipitis*	Mingfeng Cao	Xiamen University
14:50-15:00	IL	Biological synthesis of astaxanthin by using yeasts	Fengxue Xin	Nanjing Tech University
15:00-15:10	IL	Engineering Electroactive Microbes: Toward Direct Electricity-Driven Biosynthesis	Chenguang Liu	Dalian University of Technology
15:10-15:17	OP	The Glutathione Metabolic Regulation Is Elucidated in a Novel Marine Aromatic Probiotic Yeast *Meyerozyma guilliermondii* GXDK6 under Salt Stress	Chengjian Jiang	Guangxi University of Science and Technology
15:17-15:24	OP	Construction of chassis cell for the efficient production of natural products from myxobacteria	Changsheng Wu	Shandong University
15:24-15:40	Q&A			
15:40-16:00	Coffee Break			

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Time	Type	Title	Speaker	Affiliation
Chair: Eun Yeol Lee, Xiaozhou Luo				
16:00-16:15	KN	Conversion of lignocellulose into bulk chemicals through consolidated bioprocessing using filamentous fungi	Chaoguang Tian	Tianjin Institute of Industrial Biotechnology, CAS
16:15-16:30	KN	Data-driven Engineering Biology for Biomanufacturing: The Power of Accurate and Scalable Data Acquisition	Tomohisa Hasunuma	Kobe University
16:30-16:40	IL	Engineering microbial consortia in time and space	Zhuojun Dai	Shenzhen Institutes of Advanced Technology, CAS
16:40-16:50	IL	Metabolic engineering-enabled C1 feedstocks upgrading	Ethan Lan	National Yang Ming Chiao Tung University
16:50-17:00	IL	Developing the marine alga Nannochloropsis as a light-driven eukaryotic chassis for converting CO_2 to value-added products	Jin Liu	Nanchang University
17:00-17:10	IL	Tailoring Precise Genomic Integrative Expression Toward Rational Strain Development for Scalable High-titer Production of PHA	Jianwen Ye	South China University of Technology
17:10-17:20	IL	Drafting a guidebook on transcription factor-ome in *Yarrowia lipolytica*, and new studies beyond	Ewelina Celinska	Poznan University of Life Sciences
17:20-17:27	OP	Discover and Produce Marine Natural Products Using Genome Mining and Synthetic Biology Tools	Guojian Zhang	Ocean University of China
17:27-17:34	OP	Molecular Farming in Tobacco (*Nicotiana tabacum*): Tissue-Specific and Flux-Redirected Metabolic Engineering of Forskolin	Changqing Yang	Chinese Academy of Agricultural Sciences
17:34-17:41	OP	A nonclassical biosynthetic route enables tocopherol synthesis in bacteria	Yang Zhang	Xiamen University
17:41-18:00	Q&A			
18:50-20:30	Banquet			
20:30-22:30	Poster Session			

Online Detailed Program

Parallel Session 2
Biomanufacturing: From Lab to Industry (3F Ballroom C)

Tuesday, October 20, 2026 | Session Chair: Guo-Qiang Chen, Jian Xu, Ramon Gonzalez

Time	Type	Title	Speaker	Affiliation
Chair: Ramon Gonzalez, Lidan Ye				
08:30-08:45	KN	Single-cell metabolic engineering (SME) and single-cell process engineering (SPE) by the Ramanomics Platform	Jian Xu	Qingdao Institute of Bioenergy and Bioprocess Technology, CAS
08:45-09:00	KN	AI-empowered Function Mining and Synthetic Bioanufacturing for Pharmaceuticals and Nutraceuticals Aiming at Translation	Xinhui Xing	Tsinghua University
09:00-09:10	IL	Synthetic Biomanufacturing of Amphiphilic Lipopeptide and Its Cross-disciplinary Applications	Huimin Yu	Tsinghua University
09:10-09:20	IL	Technical progress and industrial scale-up of enzymes for non-food biomass utilization	Wanghui Xu	Novonesis
09:20-09:30	IL	Identification and Biological Effects of Gut Microbial Metabolites and Engineering Microbiology	Peiqiang Ma	East China University of Science and Technology
09:30-09:37	OP	Fungal Metabolic Engineering for Efficient Biomanufacturing: Mining and Expanding Biodiversity	Xinqing Zhao	Shanghai Jiao Tong University
09:37-09:44	OP	Modular Engineering Strategies for the Development of Genetically Encoded Biosensors	Zhe Sun	Tianjin Institute of Industrial Biotechnology, CAS
09:44-10:05	Q&A			
10:05-10:25	Coffee Break			

Time	Type	Title	Speaker	Affiliation
Chair: Jian Xu, Chong Zhang				
10:25-10:40	KN	From Proteins to Central Metabolism: Multi-Scale Engineering Redefining Biomanufacturing	Yong Tao	Institute of Microbiology, CAS
10:40-10:55	KN	Synthetic Biology Empowers the 5M Paradigm for Intelligent Biomanufacturing™	Lixin Zhang	East China University of Science and Technology
10:55-11:10	KN	Orthogonal biomanufacturing using formyl-CoA elongation pathways	Ramon Gonzalez	MojiaBio, XiangHu Laboratory
11:10-11:20	IL	Intelligent Multi-Scale Biomanufacturing: Driving Sustainable Isomaltulose Production from Lab to Industrial Scale	Mian Li	Zhejiang Huakang Pharmaceutical Co., Ltd
11:20-11:30	IL	An Integrated Synthetic Biology Platform for Sustainable Production of Structural Protein Materials from C2 Feedstocks in *Corynebacterium glutamicum*	Chong Zhang	Tsinghua University
11:30-11:40	IL	Multiscale Engineering of Terpenoid Biosynthesis in *Saccharomyces cerevisiae*	Lidan Ye	Zhejiang University
11:40-11:47	OP	Indigenous Pakistani Coal-Mine Fungi for Next-Generation Feedstock Biomanufacturing: A Green Approach to Chemical Production	Muhammad Ishtiaq Ali	Quaid-i-Azam University Islamabad Pakistan
11:47-12:00	Q&A			
12:00-13:30	Buffet Lunch			

Online Detailed Program

Parallel Session 2
Adaptive Evolution and Protein Engineering (3F Ballroom C)

Tuesday, October 20, 2026 | Session Chair: Shengying Li, Bian Wu, Yan Feng, Martin Grininger

Time	Type	Title	Speaker	Affiliation
Chair: Martin Grininger, Bian Wu				
13:30-13:45	KN	An intramolecular energy metabolism of *Streptococcus equisimilis* hyaluronan synthase	Zheng Liu	Tsinghua University
13:45-14:00	KN	Catalytic Promiscuity and Protein Engineering of Bacterial CYP152 Peroxygenases for Green Biomanufacturing	Shengying Li	Shandong University
14:00-14:15	KN	Bio-upcycling of plastic waste through enzymatic and biological conversion	Nick Wierckx	Jülich Forschungszentrum
14:15-14:30	KN	Discovery, engineering and application of carbohydrate-active enzymes	Heng Yin	Dalian Institute of Chemical Physics, CAS
14:30-14:40	IL	Molecular recognition-driven biomanufacturing	Yongqin Lv	Beijing University of Chemical Technology
14:40-14:50	IL	Adenylation Domain Engineering Enables Biosynthesis of an Improved Polymyxin Antibiotic	Hajo Kries	University Stuttgart
14:50-15:00	IL	Deracemization by designed photoenzymes	Yijian Rao	Fujian Agriculture and Forestry University
15:00-15:10	IL	From catalytic-motif scaffolding to de novo sequence-specific proteases: computational pipelines for enzyme design	Horst Lechner	Graz University of Technology
15:10-15:17	OP	A Modular Chemoenzymatic Platform for Efficient Synthesis of Aporphine Alkaloids	Zhi Lin	Shanghai Jiao Tong University
15:17-15:24	OP	Metabolic Engineering-Driven Large-Scale Biomanufacturing of Human Milk Oligosaccharides: From Pathway Design to Industrial Applications	Ye Guo	Suzhou Yixi Biotech Co., Ltd
15:24-15:40	Q&A			
15:40-16:00	Coffee Break			

Time	Type	Title	Speaker	Affiliation
Chair: Shengying Li, Nick Wierckx				
16:00-16:15	KN	Computational Design of Functional Enzymes	Bian Wu	Beijing University of Chemical Technology
16:15-16:30	KN	Engineering enzymes and cascade biotransformations for green and sustainable final chemical synthesis	Zhi Li	National University of Singapore
16:30-16:45	KN	Novel Enzymatic Transformation Enabled by Redox Driving Forces	Han Li	University of California-Irvine
16:45-17:00	KN	Repurposing Thiamine-Dependent Enzymes with Radicals	Xiaoqiang Huang	Nanjing University
17:00-17:10	IL	Decouple Gene Transcription and Translation Regulation in Bacteria	Yaojun Tong	Shanghai Jiao Tong University
17:10-17:20	IL	From Nitrogen Fixation to Carbon Valorization: Engineering Nitrogenases for New Chemistry	Johannes Rebelein	University Düsseldorf
17:20-17:30	IL	Artificial Intelligence-Driven Enzyme Sequence Optimization and Its Applications	Yifei Zhang	Beijing University of Chemical Technology
17:30-17:40	IL	Metabolic engineering of *Escherichia coli* for methanol utilization	Zaigao Tan	Shanghai Jiao Tong University
17:40-17:47	OP	Engineering a Photodecarboxylase and Enzyme Cascades for Bioproduction of Aromatic Chemicals	Shuke Wu	Huazhong Agricultural University
17:47-18:00	Q&A			
18:50-20:30	Banquet			
20:30-22:30	Poster Session			

08. Venue

Conference Venue



Shangri-La Hotel Dalian

No.66 Renmin Road, Zhongshan District, Dalian

Hotel Reservation Contact:

Luping Jiao 1834202922 18342029223@163.com

To Dalian Zhoushuizi International Airport (DLC) about 13 km

METRO 60 minutes, 4 CNY

TAXI 30 minutes, 30 CNY

To Dalian Railway Station about 3 km

BUS 25 minutes, 2 CNY

TAXI 10 minutes, 15 CNY

To Dalian North Railway Station about 18 km

METRO 70 minutes, 5 CNY

TAXI 35 minutes, 45 CNY

Venue Distribution Map



Partner Hotels

There are a wide variety of hotels around the conference center to meet any needs. Special hotel rates have been negotiated for symposium participants. Two partner hotels are close to the venue with a discounted price.



Furama Hotel

No.60 Renmin Road, Zhongshan District, Dalian



New World Dalian Hotel

No.41 Renmin Road, Zhongshan District, Dalian



Novotel Dalian Zhongshan Square

No.28, Chang Jiang Road, Zhong Shan District, Dalian



New Wenyuan Hotel
(Zhongshan Square Renmin Road Donggang Business District Branch)

No. 58 Zhigong Street, Zhongshan District, Dalian

09. Lunch and Dinner

Date	Time	Meals	Dining Area
October 18, 2026	18:00-20:00	Welcome Banquet	1F i Café
October 19, 2026	12:00-13:30	Buffet Lunch	3F Dalian Ballroom I 3F Shanghai Room I 1F i Café
	18:00-20:00	Buffet Dinner	3F Dalian Ballroom I 3F Shanghai Room I 1F i Café
October 20, 2026	12:00-13:30	Buffet Lunch	3F Dalian Ballroom I 3F Shanghai Room I 1F i Café
	18:50	Banquet	3F Grand Ballroom
October 21, 2026	12:00-13:30	Buffet Lunch	3F Dalian Ballroom I 3F Shanghai Room

- **Vouchers** are required for all lunch and dinners.
- **Vegetarian items (dishes)** are available, either at lunch and dinners.
- **Refreshments:** Coffee, tea, soft drinks, fruit and snacks will be provided at the conference Venue during daily coffee breaks. If you have any special needs, please feel free to contact us.

10. General Information about Travelling in China

Electricity



China uses 220 volts AC current and three-prong or two-prong outlets. It is suggested to bring an adapter with you if it does not match the plug of your electrical equipment.

Internet Service

Internet and Wi-Fi are available for free in conference venue and partner hotels.

Visa

Depending on your country of origin, a visa may or may not be required to enter China. For accurate information, please check the MES2026 official website or the Chinese Embassy in your country.

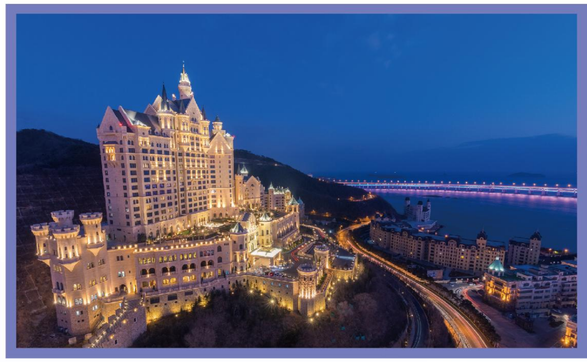
Climate

Dalian enjoys cool weather during 18–22 October, and temperatures range from 11°C to 19°C (51.8°F- 66.2°F).

In Case that You Need Any Help

Should you encounter any problems and need assistance, please feel free to reach out to our conference volunteers, who wear orange-red sweat jacket and green lanyards.

11. Dalian City Guide





Discover Dalian: Where Coastal Charm Meets Modern Elegance

Dalian emerges as a vibrant coastal city where golden beaches, colonial heritage, and cutting-edge innovation converge. Often hailed as the "Northern Pearl" and "City of Romance," Dalian captivates visitors with its refreshing sea breezes, lush green landscapes, and a cosmopolitan spirit that bridges tradition and modernity.

Dalian is a dynamic coastal city in northeast China renowned for its modern infrastructure, scenic beauty, and rich cultural heritage. It offers a unique blend of urban sophistication and natural splendor. In October, the city is particularly enchanting, as the mild weather and picturesque autumn landscapes create an ideal environment for both academic engagement and leisure. The vibrant atmosphere of Dalian during this season promises to enhance the overall experience of the conference.









Culinary Delights by the Sea

Dalian's cuisine is a love letter to the ocean. Indulge in freshly caught abalone, sea urchin, and scallops at Fisherman's Wharf, or savor street-food classics like “menzi” (savory potato jelly) and grilled squid. For a taste of local fusion, Korean-style barbecue and Russian-inspired breads reflect the city's multicultural DNA.

A Symphony of Nature

Dalian's 1,856 km coastline paints a masterpiece of natural beauty. From the serene sands of Fujiazhuang Beach to the dramatic cliffs along Binhai Road, the city offers endless opportunities for coastal exploration. The iconic Xinghai Square—one of Asia's largest public squares—frames panoramic ocean views, while Laohutan Ocean Park invites visitors to connect with marine life. In spring, Dalian is reputed as a "garden city."

12. Conference Poster List

NO.	Author	Affiliation	Topic
P-001	Ian Yunus	Singapore Institute of Food and Biotechnology Innovation (SIFBI), Agency for Science, Technology and Research (A*STAR)	Global analysis of natural product diversity from extreme environments reveals vast untapped biosynthetic potential
P-002	Ling Qin	South China University of Technology	Multi-omics analysis reveals the impact of LincRNA deletion on yeast protein synthesis
P-003	Shengding Wang	South China University of Technology	Enhancing PgUGT activity and thermostability via mutation site screening aided by molecular docking structure and computer-aided design for efficient industrial synthesis of Rebaudioside D
P-004	Yiwei Meng	Jiangnan University	Rational design of self-assembling protein scaffolds for enzyme performance reconstruction and efficient cascade catalysis
P-005	Nikhil Aggarwal	National University of Singapore	Engineered Commensals for Metabolic Modulation of the Gut-Liver-Brain Axis
P-006	Sophia Tang	University of California, Berkeley	Engineering all human milk oligosaccharide fucosidic linkages in planta
P-007	Minju Kang	Korea Advanced Institute of Science and Technology	Synthesis of aromatic PHAs as sustainable hot-melt adhesives
P-008	Hyunmin Eun	Korea Advanced Institute of Science and Technology	Expanding the biosynthetic capability of *Corynebacterium glutamicum* for lutein production
P-009	Xiang Li	Chalmers University of Technology	Complementary Yeast Biosensors for Intracellular and Extracellular Lactate
P-010	Bo Peng	VIB-KU Leuven Center for Microbiology	Engineering *Penicillium rubens* as a Next-Generation Fungal Chassis for Flavonoid Biosynthesis
P-011	Jian Xu	Qingdao Institute of Bioenergy and Bioprocess Technology, CAS	Single-cell metabolic engineering (SME) and single-cell process engineering (SPE) by the Ramanomics Platform
P-012	Liping Wang	Shanghai Ocean University	Genome-wide transcriptome analyses reveal changes in pigment -overproducing Monascus obtained by UV mutagenesis
P-013	Ping Men	Qingdao Institute of Bioenergy and Bioprocess Technology, CAS	Decoding Micafungin Precursor Biosynthesis for Industrial Strain Engineering
P-014	Miaohang Hua	Zhejiang University of Technology	Rational charge-modulation engineering of polyphosphate kinase for efficient ATP regeneration
P-015	Qian Liu	Tianjin Institute of Industrial Biotechnology, CAS	Engineering Industrial Filamentous Fungal Chassis for Efficient Recombinant Protein Production
P-016	Mengnan Wang	Zhejiang University of Technology	Residue Engineering for Esterase Optimization through Evidence Integration and Structural Stratification
P-017	Xuanye Zhu	Zhejiang University of Technology	Synergistic enhancement of activity and stability for haloalcohol dehalogenase in aqueous-organic biphasic systems
P-018	Shuwei Zhang	Beijing University of Chemical Technology	Expression and Catalytic Performance Optimization of 2-OST and 3-OST for Enhanced Enzymatic Heparin Synthesis
P-019	Ming Ma	Beijing University of Chemical Technology	Application of the modular strategy to the production of ergothioneine by engineered *Saccharomyces cerevisiae*
P-020	Jiuzhou Chen	Tianjin Institute of Industrial Biotechnology, CAS	Engineering of a LysG-derived arginine-specific biosensor for high-throughput screening of arginine overproducers in *Corynebacterium glutamicum*
P-021	Jia Yan	Shandong University	Decoupling transcriptional gain and leakage enables programmable high-precision gene regulation in *Yarrowia lipolytica*
P-022	Yuhua Wang	Beijing University of Chemical Technology	UV Mutagenesis and Electrochemical Screening of an Oxidative-Stress-Resistant *Cupriavidus necator* for CO_2-Derived Single-Cell Protein Production
P-023	Yusheng Hu	Zhejiang University of Technology	An integrated workflow for proline hydroxylase discovery and engineering through sequence mining, rational design, and low-N learning
P-024	Jing Yin	Northeast Forestry University	Yeast Cell Factory for Betulinic Acid Biosynthesis through Pathway Optimization and BpPDR4-Mediated Enhancement
P-025	Shuangyan Chang	Yanbian University	Myristoleic acid produced by *Enterococcus faecalis* inhibits obesity by activating brown adipose tissue
P-026	Ke Sun	Yanbian University	Myostatin deletion remodels gut microbiota and improves fast-twitch myofiber growth and muscle atrophy via the valeric acid-GPR43 axis
P-027	Aonan Li	Dalian University of Technology	Genome-scale metabolic modeling maps nitrogen–oxygen control of growth-to-storage allocation for PHB biomanufacturing in *Halomonas boliviensis* LC1
P-028	Zhengyun Jin	Yanbian University	*Lactobacillus reuteri* Promotes GLP-1 Secretion to Improve Intestinal Barrier Integrity and Glucose Homeostasis
P-029	Chenyuan Liu	Beijing University of Chemical Technology	Biosynthetic production of PSA, BNP, and NT-proBNP as biomarkers for cardiovascular and renal diseases
P-030	Defei Liu	Tianjin Institute of Industrial Biotechnology, CAS	Uncovering Lignin Degradation for Chemical Production through Consolidated Bioprocessing in *Myceliophthora thermophila*
P-031	Han Liu	Beijing University of Chemical Technology	From Sterol Precursors to Brassinosteroids: Emerging Metabolic Engineering Strategies for Microbial Biomanufacturing
P-032	Wanyue Zhang	Beijing University of Chemical Technology	Metabolic Engineering for Enhanced Biosynthesis of Vitamin K2 in *Bacillus subtilis*
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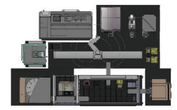
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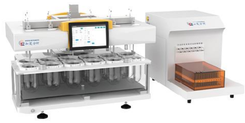

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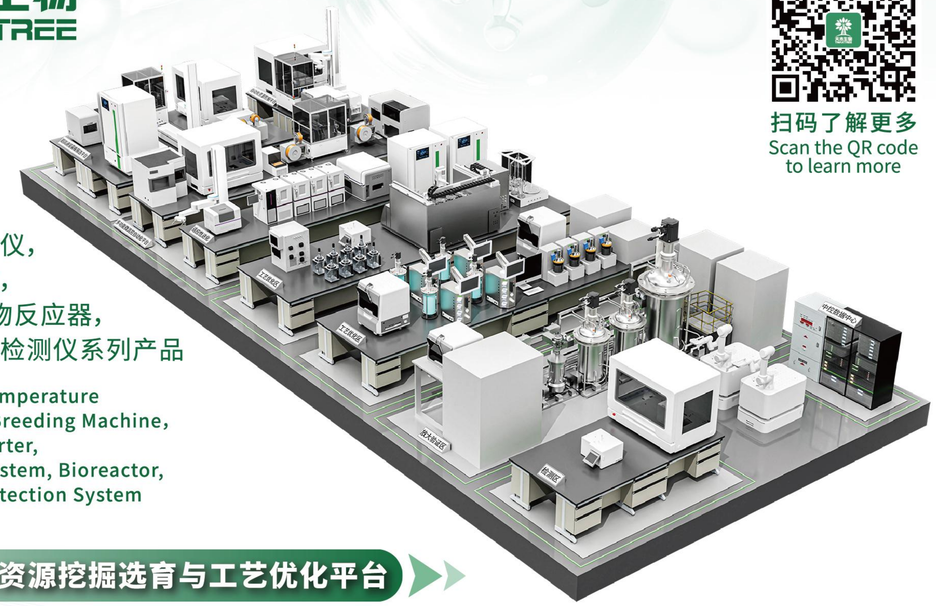
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Relevant Contact Information

- **Conference Local Chair**

Yongjin Zhou	zhouyongjin@dicp.ac.cn	+86 13840861846

- **Secretary-General**

Jiaoqi Gao	jqgao@dicp.ac.cn	+86 15242632461
Yunxia Li	liyunx@dicp.ac.cn	+86 13940967840

- **For general affairs**

Hong Guo	haileygi@163.com	+86 18642676559

- **For registration & payment**

Fan Bai	baifan1215@dicp.ac.cn	+86 15948677861
Jingyu Zhao	18642697326@163.com	+86 18642697326

- **For hotel reservation**

Luping Jiao	18342029223@163.com	+86 18342029223

- **For invoice**

Siyang Ning	ningsy@dicp.ac.cn	+86 13840881206
Gege Ma	13704830017@163.com	+86 13704830017

- **For transportation**

Peng Cai	jasoncai@dicp.ac.cn	+86 15942697501

MES2026 Official E-mail: mes2026@dicp.ac.cn

MES2026 Website: https://mes2026.scimeeting.cn