

**2018 Qingdao International Technology Transfer Conference-  
Synthetic Biology Workshop  
Program (temporary)**

Time	Event
<b>November 13, 2018, Tuesday</b>	
Registration	
15:00-17:00	<b>Technology Tour:</b> Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences (QIBEBT)
18:00-20:00	Welcome Dinner
<b>November 14, 2018, Wednesday</b>	
8:30-9:00	Registration (local companies)
9:00-10:40	<b>Opening Ceremony</b>
9:00-10:40	<b>Welcome Messages</b> <b>Signing Ceremony</b> <b>Plenary Lectures</b> 1. <b>TBD</b> , Synthetic Biology in China 2. <b>Akihiko Kondo</b> , RIKEN Center for Sustainable Resource Science, TBD
10:40-11:00	Coffee Break, Group Photo
11:00-12:30	<b>SynBio + Resource &amp; Environment I</b> Moderator: <b>Sergey Yarotsky</b> , State Research Institute for Genetics and Selection of Industrial Microorganisms of National Research Centre
11:10-11:30	<b>Chang-Jun Liu</b> , Brookhaven National Laboratory Engineering Poplar Feedstock for Improved Saccharification Efficiency and Ethanol Yield
11:30-11:50	<b>Chinta Sudhakar</b> , Sri Krishnadevaraya University Stress Regulated Transcription Factors as Potential Candidates for Enhanced Abiotic Stress Tolerance in Plants : A multi-gene expression approach
11:50-12:10 Technology Introduction	<b>Na Zhao</b> , National University of Singapore

	TBD
12:10-12:30 Technology Introduction	<b>Petr Hladik</b> , Technology Centre of the Czech Academy of Sciences Technology Transfer in the Czech Republic with respect to biotechnology sector
12:30-13:30	Networking Lunch, Technology Matchmaking
13:30-15:00	<b>SynBio + Resource &amp; Environment II</b> Moderator: <b>Chang-Jun Liu</b> , Brookhaven National Laboratory
13:40-14:00	<b>Sergey Yarotsky</b> , State Research Institute for Genetics and Selection of Industrial Microorganisms of National Research Centre Exploiting microbial biodiversity accumulated in Russian National Collection of Industrial Microorganisms for production of novel carbohydrases
14:00-14:20	<b>Sanja Roje</b> , Washington State University Towards purposeful manipulation of one-carbon metabolism in plants: discovering the missing pieces and assembling the map
14:20-14:40	<b>Chunxiang Fu</b> , QIBEBT Genetic improvement of biomass yield and cell wall digestibility of forage and biofuel crops
14:40-15:00 Technology Introduction	<b>Sung-wook Kim</b> , Nam & Nam IP Law Firm TBD, Effect of salt type and concentration on the growth and lipid content of <i>Chlorella vulgaris</i> in synthetic saline wastewater for biofuel production
15:00-15:20	Coffee Break, Technology Matchmaking
15:20-17:50	<b>SynBio + Energy &amp; Chemindustry I</b> Moderator: <b>Bo Chen</b> , Genomatica, Inc.
15:30-15:50	<b>Aparat Mahakhant</b> , Thailand Institute of Scientific and Technological Research TISTR Perspectives on Bioenergy and Bioprocess Technology Using Synthetic Biology
15:50-16:10	<b>Christoph Syldatk</b> , Karlsruhe Institute of Technology Biological upgrading of syngas using a combination of different microorganisms
16:10-16:30	<b>Zhao Guang</b> , QIBEBT Biosynthesis of 3-hydroxypropionate, an important platform chemical
16:30-16:50	<b>Lianghui Ji</b> , National University of Singapore

	Red Oleaginous Yeast as a New Industrial Bioproduction Platform
16:50-17:10	Coffee Break, Technology Matchmaking
17:10-18:40	<b>SynBio + Energy &amp; Chemindustry II</b> Moderator: <b>Aparat Mahakhant</b> , Thailand Institute of Scientific and Technological Research
17:20-17:40	<b>Bo Chen</b> , Genomatica, Inc. Commercializing Industrial Bioprocess and Biotechnology
17:40-18:00	<b>Noppol Leksawasdi</b> , Chiang Mai University Comparison of organic phases for phenylacetylcarbinol production in a biphasic emulsion biotransformation system using yeast whole cells cultivated in fresh longan juice
18:00-18:20	<b>Quan Luo</b> , QIBEBT New insights into sugar production of cyanobacterial cell factories
18:20-18:40	<b>Zengyi Shao</b> , Iowa State University Elucidating Core Design Principles to Engineer <i>Nonconventional Yeasts</i> as Novel Microbial Factories
19:00	Dinner
<b>November 15, 2018, Thursday</b>	
9:00-10:30	<b>SynBio + Method &amp; Technology I</b> Moderator: <b>Olaf Kruse</b> , Bielefeld University
9:10-9:30	<b>Axel Trefzer</b> , Thermo Fisher Scientific GENEART GmbH Synthetic Biology Tools for Efficient Discovery and Development – a German/Bavarian Perspective
9:30-9:50	<b>Fayza Daboussi</b> , French National Institute for Agricultural Research An innovative DNA-free genome editing strategy for the one-step generation of multiple gene knock-outs in the diatom <i>Phaeodactylum tricorutum</i>
9:50-10:10	<b>Hedayatollah Ghourchian</b> , University of Tehran New technologies are on the way by incorporating the bio-receptors and nanotechnology
10:10-10:30	<b>Andreas Worberg</b> , Novo Nordisk Foundation Center for Biosustainability Having the End in Mind – Commercialization of Bio-Based Products in a Translational Core

10:30-11:00	Coffee Break, Technology Matchmaking
11:00-12:30	<b>SynBio + Method &amp; Technology II</b> Moderator: <b>Axel Trefzer</b> , Thermo Fisher Scientific GENEART GmbH
11:10-11:30	<b>Olaf Kruse</b> , Bielefeld University Microalgae as sustainable photosynthetic green cell factories in biotechnology
11:30-11:50	<b>Asano Yasuhisa</b> , Toyama Prefectural University Rational identification of aggregation hotspots based on secondary structure and amino acid hydrophobicity
11:50-12:10	<b>Tianzhong LIU</b> , QIBEBT Attempt of Genetic Transformation for Microalgae <i>Haematococcus pluvialis</i>
12:10-12:30 Technology Introduction	<b>Zhaoyang Li</b> , Taylor English Duma LLP <b>TBD</b>
12:30-13:30	Networking Lunch, Technology Matchmaking
13:30-15:00	<b>SynBio + Pharmaceuticals &amp; Health I</b> Moderator: <b>Ikuro Abe</b> , University of Tokyo
13:40-14:00	<b>Eppurath Soniya</b> , Rajiv Gandhi Centre for Biotechnology AmQNS as a potential bioresource of natural product-based bioengineering: can we use them as factories for the future drug discovery?
14:00-14:20	<b>Eung-Soo Kim</b> , Inha University Genome Engineering for Microbial Natural Product Discovery
14:20-14:40	<b>Xuefeng LU</b> , QIBEBT Multiple-level and coordinated regulation of biosynthesis of new class bioactive azaphilones
14:40-15:00	<b>Fuli Li</b> , QIBEBT Rewiring biosynthesis pathway of nervonic acid in oleaginous yeast
15:00-15:20	Coffee Break, Technology Matchmaking
15:20-16:50	<b>SynBio + Pharmaceuticals &amp; Health II</b> Moderator: <b>Eppurath Soniya</b> , Rajiv Gandhi Centre for Biotechnology
15:30-15:50	<b>Ikuro Abe</b> , University of Tokyo Engineered Biosynthesis of Medicinal Natural Products

15:50-16:10	<b>Shengying Li, QIBEBT</b> Cytochrome P450 enzymes, important catalytic parts for synthetic biology
16:10-17:20	<b>Closing Ceremony</b>
16:10-17:20	<b>Plenary Lectures (60min):</b> <b>1. Magali Remaud-Simeon, LISBP/INSA Toulouse, Enzyme discovery and engineering for added-value biopolymers and chemicals</b> <b>2. David Sherman, University of Michigan, TBD</b> <b>Closing Remark (10min)</b>
18:00	<b>Dinner</b>
<b>November 16, 2018, Friday</b>	
9:00-17:00	Technology tour: 1. Qingdao Vland Biotech Inc. 2. Beijing Genomics Institute (BGI), Qingdao