

# International Bioprocessing Association-7<sup>th</sup> International Forum on Industrial Bioprocesses

## Detailed Conference Program

May 21-24, 2017, Jiangnan University, Wuxi, China

May 21, 2017	
14:00-18:00	<b>Registration</b> , Changguangxi Hotel
18:00-20:30	<b>Dinner</b> , Changguangxi Hotel & Scholars Hotel
May 22, 2017	
08:30-17:30	<b>Registration</b> , lobby of Wenhao Hall
09:00-09:45	<b>Opening session</b> Auditorium of Wenhao Hall <b>Chairman:</b> Prof. Ashok Pandey <b>Welcome address, Prof. Jian Chen, Jiangnan University</b> <b>Welcome address, Prof. Duu-Jong Lee, National Taiwan University</b> <b>Welcome address, Mr. Shiyong Xiao, China National Center for Biotechnology Development</b>
09:45-10:10	Photo session, lobby of Wenhao Hall
10:10-11:10	<b>Plenary talks</b> Auditorium of Wenhao Hall <b>Chairs:</b> Prof. Hal Alper, Prof. Duu Jong Lee
10:10-10:40	<b>Plenary 1 Prof. Mohammad J. Taherzadeh, University of Borås</b> <b>Title:</b> Integration of 1 <sup>st</sup> and 2 <sup>nd</sup> generation ethanol plants using filamentous fungi
10:40-11:10	<b>Plenary 2 Prof. Jonathan Wong, Hong Kong Baptist University</b> <b>Title:</b> A Myth to enhance two-phase anaerobic digestion performance
11:10-11:30	TEA/COFFEE

11:30-12:00	<b>Plenary 3 Prof. R.D. Tyagi, University of Quebec</b> <b>Title:</b> Production of <i>Bacillus thuringiensis</i> based biopesticides using industrial wastewater as a raw material Auditorium of Wenhao Hall <b>Chairs:</b> Prof. Jonathan Wong, Prof. Claude-Gilles Dussap				
12:00-14:00	LUNCH, Campus Cafeteria No.1				
14:00-15:25	<b>Bioenergy/Biofuels</b>  <b>Room: 313</b> <b>Chairs:</b> Prof. Shekhar Thakur, Prof. Yongjin Zhou	<b>Environmental Biotechnology</b>  <b>Room: 311</b> <b>Chairs:</b> Prof. Wenshan Guo, Dr. K. Madhavan Nampoothiri	<b>Food Engineering</b>  <b>Room: 203</b> <b>Chairs:</b> Dr. Sudhir P. Singh Prof. Li Pan	<b>Industrial Biotechnology</b>  <b>Room: 205</b> <b>Chairs:</b> Prof. Ganti S. Murthy, Prof. Chun Li	<b>Upstream and Downstream Bioprocesses</b>  <b>Room: 107</b> <b>Chairs:</b> Prof. Akihiko Kondo, Prof. Gyoo Yeol Jung
14:00-14:20	<b>BB-IL-1 Prof. Indu Shekhar Thakur, Jawaharlal Nehru University</b> <b>Title:</b> Proteomic and genomic analysis of chemolithotrophic bacteria for simultaneous sequestration of carbon dioxide and production of biofuel and biomaterials	<b>EB-IL-1 Prof. Zhiming Rao, Jiangnan University</b> <b>Title:</b> System metabolic engineering of <i>Corynebacterium crenatum</i> and its application for efficient synthesis of high-value amino acids	<b>FE-IL-1 Dr. Sudhir P. Singh, Center of Innovative and Applied Bioprocessing</b> <b>Title:</b> An approach for biotransformation of agro-industrial residues into high-value functional biomolecules	<b>IB-IL-1 Prof. Ganti S. Murthy, Oregon State University</b> <b>Title:</b> Identifying the constraints in the xylose utilization pathways in <i>Saccharomyces cerevisiae</i> using non-boolean regulatory flux balance modeling	<b>UDB-IL-1 Prof. Akihiko Kondo, Kobe University</b> <b>Title:</b> Development of microbial cell factories for consolidated bioprocessing by synthetic bioengineering platform
14:20-14:40	<b>BB-IL-2 Prof. Yongjin Zhou, Dalian Institute of Chemical Physics, CAS</b> <b>Title:</b> Harnessing yeast peroxisomes for production of fatty acid-derived chemicals and biofuels	<b>EB-IL-2 Dr. K. Madhavan Nampoothiri, CSIR-National Institute for Interdisciplinary Science and technology</b> <b>Title:</b> Economic considerations and commercial potential of microbial enzyme production using Agro-Industrial Wastes	<b>FE-IL-2 Prof. Li Pan, South China University of Technology</b> <b>Title:</b> Survey of protein-DNA interactions in <i>Aspergillus</i> sp. on a genomic scale	<b>IB-IL-2 Prof. Chun Li, Beijing Institute of Technology</b> <b>Title:</b> Thermo-tolerant system design in microbe for boosting high-temperature fermentation	<b>UDB-IL-2 Prof. Gyoo Yeol Jung, POSTECH</b> <b>Title:</b> Strain improvement by evolutionary engineering using synthetic expression regulators
14:40-14:55	<b>BB-SO-1 Dr. Wei Wu, National Cheng Kung University</b>	<b>EB-SO-1 Dr. Quanshun Li, Jilin University</b> <b>Title:</b> Construction of biodegradable and	<b>FE-SO-1 Prof. Fei Xu, Jiangnan University</b> <b>Title:</b> Computational design of collagen-based biomaterials	<b>IB-SO-1 Dr. Leilei Zhu, Tianjin Institute of Industrial Biotechnology</b>	<b>UDB-SO-1 Dr. Zhiyong Zheng, Jiangnan University</b>

	<b>Title:</b> Life cycle assessment and optimization of microalgae-based energy systems	biocompatible polymers using enzymes and their nano-assemblies as catalysts		<b>Title:</b> Project engineering of arginine deiminase for anti-tumor application	<b>Title:</b> Characterization of a novel energy-saving gas dispersion impeller
14:55-15:10	<b>BB-SO-2 Dr. Hui Wu, East China University of Science and Technology</b> <b>Title:</b> Metabolic transistor strategy for controlling aerobic carbon flux in <i>Escherichia coli</i>	<b>EB-SO-2 Dr. J.C.W. Lan, Yuan Ze University</b> <b>Title:</b> Sustainable process integration for production of polyhydroxyalkanoates and astaxanthin from spent coffee ground waste	<b>FE-SO-2 Dr. Bobo Zhang, Jiangnan University</b> <b>Title:</b> Enhanced production of Monascus yellow pigment in a biphasic fermentation system	<b>IB-SO-2 Dr. Yuhong Ren, East China University of Science and Technology</b> <b>Title:</b> Reversible photocontrol the Lipase activity upon photoswitchable lid	<b>UDB-SO-2 Dr. Poonsuk Prasertsan, Prince of Songkla University</b> <b>Title:</b> Production of lignocellulolytic enzymes from oil palm residues under solid-state and submerged fermentation by newly isolated fungi and application for production of ethanol and acetic acid
15:10-15:25	<b>BB-SO-3 Dr. Kiattisak Panpong, Songkhla Rajabhat University</b> <b>Title:</b> Efficiency of hydrogen sulfide removal in biogas from palm oil mill industry by mixed consortium biofilter: Effect of physical and biological parameters	<b>EB-SO-3 Dr. Xinwen Zhang, Shandong University</b> <b>Title:</b> Treatment performance of aerated surface flow constructed wetlands using exhaust gas from biological wastewater treatment	<b>FE-SO-3 Prof. I-Son Ng, National Cheng Kung University</b> <b>Title:</b> Biofabrication of gold nanoparticles by <i>Shewanella</i> : Mechanism and optimization	<b>IB-SO-3 Dr. Yu Deng, Jiangnan University</b> <b>Title:</b> Metabolic engineering of <i>E. coli</i> for producing adipic acid at high titer through the reverse adipate degradation pathway	<b>UDB-SO-3 Dr. Jie Yang, Fuzhou University</b> <b>Title:</b> Immobilized laccases: kinetics, thermal inactivation, and operational stability
15:25-15:55	<b>TEA/COFFEE</b>				
15:55-17:20	<b>Bioenergy/Biofuels</b> <b>Room: 313</b> <b>Chairs:</b> Prof. Jie Bao, Prof. Suzana Ferreira-Dias	<b>Environmental Biotechnology</b> <b>Room: 311</b> <b>Chairs:</b> Dr. Xuan Thanh Bui, Prof. Yonghong Wu	<b>Food Engineering</b> <b>Room: 203</b> <b>Chairs:</b> Prof. Zhiming Rao, Prof. Hongwu Ma	<b>Industrial Biotechnology</b> <b>Room: 205</b> <b>Chairs:</b> Prof. Sunghong Park, Prof. V. F. Wendisch	<b>Upstream and Downstream Bioprocesses</b> <b>Room: 107</b> <b>Chairs:</b> Prof. Daniel Tsang, Prof. In Seop Chang

15:55-16:15	<b>BB-IL-3 Prof. Jie Bao</b> , <i>East China University of Science and Technology</i> <b>Title:</b> Biorefining lignocellulose biomass into commodity organic acids: competing with starch based process	<b>EB-IL-3 Dr. Xuan Thanh Bui</b> , <i>Ho Chi Minh City University of Technology</i> <b>Title:</b> Investigation of domestic wastewater treatment capacity and nutrient accumulation by wetland roof with different local plants	<b>FE-IL-3 Prof. Hongwu Ma</b> , <i>Tianjin Institute of Industrial Biotechnology, CAS</i> <b>Title:</b> Engineering <i>Escherichia coli</i> for poly- $\beta$ -hydroxybutyrate production from methanol	<b>IB-IL-3 Prof. Volker F. Wendisch</b> , <i>Bielefeld University</i> <b>Title:</b> Metabolic engineering of <i>Corynebacterium glutamicum</i> and <i>Bacillus methanolicus</i> for production of value-added products	<b>UDB-IL-3 Prof. Daniel Tsang</b> , <i>Hong Kong Polytechnic University</i> <b>Title:</b> Kinetics of brønsted acid catalyzed conversion of cellulosic waste into levulinic acid
16:15-16:35	<b>BB-IL-4 Dr. Suzana Ferreira-Dias</b> , <i>Universidade de Lisboa</i> <b>Title:</b> The use of tropical and mediterranean non-edible oils for biodiesel production: The enzymatic vs. the conventional processes	<b>EB-IL-4 Prof. Yonghong Wu</b> , <i>Institute of Soil Science, CAS</i> <b>Title:</b> Enhanced nitrogen removal by periphytic biofilm stimulated by $Y_2SiO_5:Pr^{3+}$ and $Y_2SiO_5:Pr^{3+},Li^+$	<b>FE-IL-4 Prof. Maria H Ribeiro</b> , <i>Universidade Lisboa</i> <b>Title:</b> From production methodologies to (glyco)biocompounds: vision for the future of better biocatalysts	<b>IB-IL-4 Prof. Sunghong Park</b> , <i>Pusan National University</i> <b>Title:</b> In vivo and in vitro studies on 3-hydroxypropionic acid-inducible transcription activator protein, MmsR, of <i>Pseudomonas denitrificans</i>	<b>UDB-IL-4 Prof. In Seop Chang</b> , <i>Gwangju Institute of Science and Technology</i> <b>Title:</b> Developments of high gas-liquid mass transfer system using hollow fibre membrane for biological C1 gas conversion
16:35-16:50	<b>BB-SO-4 Dr. Peng-Cheng Chen</b> , <i>Jiangnan University</i> <b>Title:</b> Preparation of A. succinogenes immobilized nanofiber membrane for fermentative production of succinic acid	<b>EB-SO-4 Dr. Zhaoyong Sun</b> , <i>Sichuan University</i> <b>Title:</b> Development of an efficient process for treating dairy manure slurry by aerobic composting and anaerobic digestion	<b>FE-SO-4 Dr. Jin Hou</b> , <i>Shandong University</i> <b>Title:</b> Engineering the synthesis of key precursors for the production monoterpenes and malonyl-CoA derived chemicals in <i>Saccharomyces cerevisiae</i>	<b>IB-SO-4 Dr. Yunpeng Bai</b> , <i>East China University of Science and Technology</i> <b>Title:</b> Enantioselective reduction of long-chain aliphatic $\gamma$ -, $\delta$ -ketoacids/ketoesters by a novel bacterial alcohol dehydrogenase	<b>UDB-SO-4 Dr. Yinan Wu</b> , <i>Tsinghua University</i> <b>Title:</b> Synthetic-circuit-assisted evolutionary engineering for the improvement of metabolites production by long-term continuous evolution
16:50-17:05	<b>BB-SO-5 Dr. Nan Li</b> , <i>Tianjin University</i> <b>Title:</b> Acid-pretreated graphite cathodes for hydrogen peroxide synthesis	<b>EB-SO-5 Dr. Patharla Chiranjeevi</b> , <i>CSIR-Indian Institute of Chemical Technology</i> <b>Title:</b> Eco-electrogenic engineered system for	<b>FE-SO-5 Dr. Bhuwan Bhushan Mishra</b> , <i>Center of Innovative and Applied Bioprocessing</i> <b>Title:</b> A semi-synthetic approach for rose-oxide value addition to low value Citronella essential oil	<b>IB-SO-5 Dr. Fickers Patrick</b> , <i>Université de Liège</i> <b>Title:</b> <i>Pichia pastoris</i> process optimization by methanol/sorbitol co-feeding	<b>UDB-SO-5 Dr. Hui Suan Ng</b> , <i>UCSI University</i> <b>Title:</b> Enzyme-assisted aqueous micellar biphasic extraction of mangostins from <i>Garcinia mangostana</i> peels

	in three-dimensional bioelectrochemical systems	remediation and power production			
17:05-17:20	<b>BB-SO-6 Dr. Ming Lu, Qingdao Institute of BioEnergy and Bioprocess Technology</b> <b>Title:</b> Novel hemicellulolytic enzymes in extremely thermophilic <i>Caldicellulosiruptor</i> species drive hemicellulose biodegradation	<b>EB-SO-6 Prof. Shih-Hsin Ho, Harbin Institute of Technology</b> <b>Title:</b> Exploring the salinity-induced lipid synthesis in <i>Chlamydomonas</i> and enhancing its lipid production via engineering strategies	<b>FE-SO-6 Dr. Yanfeng Liu, Jiangnan University</b> <b>Title:</b> Metabolic engineering of <i>Bacillus subtilis</i> for efficient production of N-acetylneuraminic acid	<b>IB-SO-6 Prof. Rongzhen Zhang, Jiangnan University</b> <b>Title:</b> Sustainable chiral biosynthesis by spore-coencapsulated ( <i>S</i> )-carbonyl reductase II and glucose dehydrogenase mutant using xylose as co-substrate for cofactor regeneration	<b>UDB-SO-6 Dr. Jochen Uhlenkuken, HAMILTON Bonaduz AG</b> <b>Title:</b> Online measurements of viable and total cell densities
17:20-18:00	POSTER SESSION I				
18:30-20:00	CULTURAL PROGRAM and DINNER, Hongli Dynasty Restaurant				
<b>May 23, 2017</b>					
09:00-10:30	<b>Plenary talks</b> Auditorium of Wenhao Hall <b>Chairs:</b> Prof. Yiheng Percival Zhang, Prof. Christian Larroche				
09:00-09:30	<b>Plenary 4 Prof. Jing Wu, Jiangnan University</b> <b>Title:</b> Strategies for enhancing extracellular expression of recombinant enzymes				
09:30-10:00	<b>Plenary 5 Prof. Hal Alper, The University of Texas</b> <b>Title:</b> Metabolic Engineering of <i>Yarrowia lipolytica</i> for fuels and chemicals production				
10:00-10:30	<b>Plenary 6 Prof. Duu-Jong Lee, National Taiwan University</b> <b>Title:</b> The use of lignin as renewable resources				
10:30-11:00	TEA/COFFEE				
11:00-12:00	<b>Plenary talks</b> Auditorium of Wenhao Hall <b>Chairs:</b> Prof. Huu Hao Ngo, Prof. Thallada Bhaskar				
11:00-11:30	<b>Plenary 7 Prof. Xin-Hui Xing, Tsinghua University</b>				

	<b>Title:</b> ARTP mutagenesis as a useful tool for reverse and systematic engineering of microbial cell factories				
11:30-12:00	<b>Plenary 8 Prof. Yiheng Percival Zhang, Tianjin Institute of Industrial Biotechnology, CAS</b> <b>Title:</b> An in vitro synthetic biology platform for the industrial biomanufacturing of myo-inositol from starch				
12:00-14:00	LUNCH, Campus Cafeteria No.1				
14:00-15:25	<b>Bioenergy/Biofuels</b>  <b>Room: 313</b> <b>Chairs:</b> Dr. Shangxian Xie, Dr. Gwendoline Christophe	<b>Environmental Biotechnology</b>  <b>Room: 311</b> <b>Chairs:</b> Prof. Jo-Shu Chang, Prof. Zengqiang Zhang	<b>Food Engineering</b>  <b>Room: 203</b> <b>Chairs:</b> Prof. Datta Madamwar, Prof. Claude-Gilles Dussap	<b>Industrial Biotechnology</b>  <b>Room: 205</b> <b>Chairs:</b> Dr. Michalis Koutinas Prof. R. Kazlauskas	<b>Upstream and Downstream Bioprocesses</b>  <b>Room: 107</b> <b>Chairs:</b> Prof. Sang Jun Sim, Prof. Zhen Yang
14:00-14:20	<b>BB-IL-5 Dr. Shangxian Xie,</b> <i>Texas A&amp;M University</i> <b>Title:</b> Advanced biodesign for efficient lignin bioconversion	<b>EB-IL-5 Prof. Jo-Shu Chang,</b> <i>National Cheng Kung University</i> <b>Title:</b> Microalgae-based wastewater treatment and circular economy	<b>FE-IL-5 Prof. Datta Madamwar,</b> <i>Sardar Patel University</i> <b>Title:</b> Understanding the light harvesting function of phycobiliproteins by X-ray Crystallography and its therapeutic applications	<b>IB-IL-5 Prof. R. Kazlauskas,</b> <i>University of Minnesota</i> <b>Title:</b> Evolution of esterases to hydroxynitrile lyases in the $\alpha/\beta$ -hydrolase-fold superfamily involved an extinct mechanism	<b>UDB-IL-5 Prof. Sang Jun Sim,</b> <i>Korea University</i> <b>Title:</b> Microfluidic technologies to increase photoautotrophic biofuel production in microalgae
14:20-14:40	<b>BB-IL-6 Dr. Gwendoline Christophe,</b> <i>Université Clermont Auvergne</i> <b>Title:</b> Treatment of different sludge in continuous by dark fermentation with submerged membrane anaerobic bioreactor	<b>EB-IL-6 Dr. Zengqiang Zhang,</b> <i>Northwest A&amp;F University</i> <b>Title:</b> Effects of biochar combined with medical stone amendment on microbial diversity and potential mitigation of greenhouse gas emission during biosolids	<b>FE-IL-6 Prof. Claude-Gilles Dussap,</b> <i>Université Clermont Auvergne</i> <b>Title:</b> Physical model for higher plant growths in a reduced gravity influence	<b>IB-IL-6 Dr. Michalis Koutinas,</b> <i>Cyprus University of Technology</i> <b>Title:</b> Application of lipases from <i>Candida antarctica</i> B and <i>Candida rugosa</i> for the production of ethyl lactate from cheese whey	<b>UDB-IL-6 Prof. Athanasios A. Koutinas,</b> <i>University of Patras</i> <b>Title:</b> Innovative bio-processing and carbohydrate nano-tubes development based on nano-cellulose
14:40-14:55	<b>BB-SO-7 Dr. Yi Jiang,</b> <i>Shandong University</i> <b>Title:</b> Gluconic acid production from potato waste by <i>Gluconobacter oxydans</i>	<b>EB-SO-7 Dr. Meena Krishania,</b> <i>Center of Innovative and Applied Bioprocessing</i>	<b>FE-SO-7 Dr. Bor-Yann Chen,</b> <i>National I-Lan University</i> <b>Title:</b> Feasibility study on biostimulation of edible flora and	<b>IB-SO-7 Prof. Jingwen Zhou,</b> <i>Jiangnan University</i> <b>Title:</b> Heterologous biosynthesis of flavonolignans with microorganisms	<b>UDB-SO-7 Dr. Xiudong Liu,</b> <i>Dalian University</i> <b>Title:</b> Microencapsulated yeast cells for culture in aqueous-



	using sequential hydrolysis and fermentation	<b>Title:</b> Enzymatic valorisation of corn processing by-products into value added products	tea extract for bioenergy applications		organic solvent biphasic system
14:55-15:10	<b>BB-SO-8 Dr. Shuhao Huo,</b> <i>Jiangsu University</i> <b>Title:</b> Biomass accumulation of <i>Chlorella zofingiensis</i> G1 cultures grown outdoors in photobioreactor	<b>EB-SO-8 Dr. Bhagyashree Tiwari,</b> <i>Terre et Environment – INRS</i> <b>Title:</b> Evaluating the removal rate and removal mechanisms of pharmaceuticals in SMBR at varying HRT and microbial community profiling	<b>FE-SO-8 Dr. Hui-Min David Wang,</b> <i>National Chung Hsing University</i> <b>Title:</b> Astaxanthin reduces MMP expressions, suppresses cancer cell migrations, and triggers apoptotic caspases of in vitro and in vivo models in melanoma	<b>IB-SO-8 Dr. Yikang Zhou,</b> <i>Tsinghua University</i> <b>Title:</b> Machine-Learning-Assisted-Yeast Fab: an efficient strategy for combinatorial optimization of metabolic pathway in <i>Saccharomyces cerevisiae</i>	<b>UDB-SO-8 Dr. Rina Mariyana,</b> <i>Korea Institute of Energy Research</i> <b>Title:</b> Bioreactor design for enhancing gas-liquid mass transfer in biological conversion of C1 gas
15:10-15:25	<b>BB-SO-9 Dr. Yucai He,</b> <i>Changzhou University</i> <b>Title:</b> Catalytic conversion of corncob to furfuralcohol by tandem catalysis with solid acid $SO_4^{2-}/SnO_2$ -Kaoline and recombination <i>E. coli</i> CCZU-T15 whole cells	<b>EB-SO-9 Dr. Ning Li,</b> <i>South China University of Technology</i> <b>Title:</b> Biocatalytic reduction of 5-hydroxymethylfurfural (HMF) to 2,5-bis(hydroxymethyl)furan using highly HMF-tolerant <i>Meyerozyma guilliermondii</i> SC1103 cells	<b>FE-SO-9 Dr. Chunxiao Wang,</b> <i>Northwest A&amp;F University</i> <b>Title:</b> Hydrogen sulfide synthesis in native <i>Saccharomyces cerevisiae</i> strains during alcoholic fermentations	<b>IB-SO-9 Dr. Guochao Xu,</b> <i>Jiangnan University</i> <b>Title:</b> Comparative characterization of promising ketoreductases from genome hunting library of <i>Candida glabrata</i>	<b>UDB-SO-9 Dr. Ruizhi Han,</b> <i>Jiangnan University</i> <b>Title:</b> Transglycosylation of genistein by <i>Paenibacillus macerans</i> cyclodextrin glycosyltransferase to improve its water solubility
15:25-15:55	<b>TEA/COFFEE</b>				
15:55-17:20	<b>Bioenergy/Biofuels</b> <b>Room: 313</b> <b>Chairs:</b> Prof F Adani, Prof. Suzana Yusup	<b>Environmental Biotechnology</b> <b>Room: 311</b> <b>Chairs:</b> Prof. Philippe Michaud Dr. Yu-Kaung Chang	<b>Food Engineering</b> <b>Room: 203</b> <b>Chairs:</b> Prof. Arun Goyal, Prof. Michael Sauer	<b>Industrial Biotechnology</b> <b>Room: 205</b> <b>Chairs:</b> Prof. Ye Ni, Dr. Parameswaran Binod	<b>Upstream and Downstream Bioprocesses</b> <b>Room: 107</b> <b>Chairs:</b> Prof. Samir Khanal, Prof. A. A. Koutinas
15:55-16:15	<b>BB-IL-7 Prof. Xiaoming Bao,</b> <i>Shandong University</i> <b>Title:</b> Engineering <i>Saccharomyces cerevisiae</i> for	<b>EB-IL-7 Prof. Philippe Michaud,</b> <i>Université Clermont Auvergne</i>	<b>FE-IL-7 Prof. Arun Goyal,</b> <i>Indian Institute of Technology Guwahati</i>	<b>IB-IL-7 Dr. Parameswaran Binod,</b> <i>CSIR-National Institute for Interdisciplinary Science &amp; Technology</i>	<b>UDB-IL-7 Prof. Samir Kumar Khanal,</b> <i>University of Hawai'i</i>

	expanding substrate utilization and biochemicals production	<b>Title:</b> Screening, identification and exploitation of polysaccharides from microalgae	<b>Title:</b> Recombinant chondroitin AC lyase (PsPL8A) from <i>Pedobacter saltans</i> and its applications in therapeutics and functional foods	<b>Title:</b> Microbial mediated enantioselective synthesis of (S)-1-(1-naphthyl) ethanol	<b>Title:</b> Anaerobic digestion of lignocellulosic biomass using horizontal bioreactor with focus on decentralized biorefinery
16:15-16:35	<b>BB-IL-8 Prof. Suzana Yusup, Universiti Teknologi PETRONAS</b> <b>Title:</b> Natural low-transition-temperature mixture (LTTM): sustainable green solvent for biomass delignification	<b>EB-IL-8 Dr. Yu-Kaung Chang, Ming Chi University of Technology</b> <b>Title:</b> Preparation of dye affinity nanofiber membrane: its development and application to high efficiency protein purification technology	<b>FE-IL-8 Prof. Michael Sauer, BOKU University of Natural Resources and Life Sciences</b> <b>Title:</b> Modulating the redox household of <i>Lactobacillus diolivorans</i> by the carbon feed	<b>IB-IL-8 Prof. Ye Ni, Jiangnan University</b> <b>Title:</b> Tailoring an alcohol dehydrogenase for asymmetric reduction of diaryl bulky ketones	<b>UDB-IL-8 Dr. Sunita J. Varjani, Gujarat Pollution Control Board</b> <b>Title:</b> Microbial enhanced oil recovery: A critical perspective
16:35-16:50	<b>BB-SO-10 Dr. Zhiqiang Wen, Nanjing University of Science &amp; Technology</b> <b>Title:</b> Enhanced solvent production by metabolic engineering of a twin-clostridial consortium	<b>EB-SO-10 Dr. Cheng Chen, University of Technology Sydney</b> <b>Title:</b> Effect of COD/N ratio on the performance of a hybrid sponge assisted aerobic-anaerobic granular membrane bioreactor for domestic wastewater treatment	<b>FE-SO-10 Dr. Baskar Gurunathan, St. Joseph's College of Engineering</b> <b>Title:</b> Acrylamide mitigation in fried Kochchi kesel chips using free and immobilized fungal asparaginase	<b>IB-SO-10 Dr. Meng Wang, Tianjin Institute of Industrial Biotechnology</b> <b>Title:</b> Lab automation for industrial biotechnology: high-throughput cloning and parts assembly	<b>UDB-SO-10 Prof. Zhen Yang, Shenzhen University</b> <b>Title:</b> Ionic liquids as solvents/co-solvents for enzymatic synthesis of sugar fatty acid esters
16:50-17:05	<b>BB-SO-11 Dr. M. V. Rohit, CSIR-Indian Institute of Chemical Technology</b> <b>Title:</b> Multi-parametric stress influence and role of trophic stimulus on simultaneous lipid	<b>EB-SO-11 Dr. Stella Parmaki, Cyprus University of Technology</b> <b>Title:</b> Valorization of alkaloid containing wastewater through the isolation of microorganisms	<b>FE-SO-11 Prof. H. Rogez, Universidade Federal do Pará</b> <b>Title:</b> Metagenomic analysis reveals that bacteria are predominant in spontaneous	<b>IB-SO-11 Dr. Ya-Jun Wang, Zhejiang University of Technology</b> <b>Title:</b> Directed evolution of KlAKR for stereoselective	<b>UDB-SO-11 Dr. Adenise L. Woiciechowski, Federal University of Paraná</b> <b>Title:</b> Biotechnological potential of the EFB hemicellulosic fraction



	induction in <i>Chlorella</i> sp. during waste remediation	converting lupanine into added-value products	fermentation of Brazilian cocoa beans	synthesis of t-butyl 6-cyano-(3R,5R)-dihydroxyhexanoate	hydrolysate to produce organic acids using <i>Rhizopus</i>
17:05-17:20	<b>BB-SO-12 Dr. Jianrong Wu,</b> Jiangnan University <b>Title:</b> Balance of proton and monovalent cation affect the molecular weight stability of polysialic acid in <i>E. coli</i> fermentation broth	<b>EB-SO-12 Dr. Dong Wei,</b> University of Jinan <b>Title:</b> A fluorescence approach to assess the enhanced biosorption process of heavy metal onto sludge-derived biochar in the presence of effluent organic matter	<b>FE-SO-12 Dr. Xiao-Yu Dong,</b> Dalian University <b>Title:</b> A novel approach of cold plasma at atmospheric pressure in enhancing blueberry quality	<b>IB-SO-12 Dr. Francisco Fierro,</b> Universidad Autónoma Metropolitana-Unidad Iztapalapa <b>Title:</b> Yap-like bZIP transcription factors PcYap1 and RsmA regulate penicillin biosynthesis in <i>Penicillium chrysogenum</i>	<b>UDB-SO-12 Dr. A. Manisha,</b> Center of Innovative and Applied Bioprocessing <b>Title:</b> Simple sugars production by the transformation of lignocellulosic biomass using unique chemo-enzymatic hydrolysis method
17:20-18:00	POSTER SESSION II				
18:30-20:00	DINNER, Changguangxi Hotel & Scholars Hotel				
<b>May 24, 2017</b>					
09:00-9:55	<b>Bioenergy/Biofuels</b> <b>Room: 313</b> <b>Chairs:</b> Prof. Xiaoming Bao, Prof. Xinqing Zhao	<b>Environmental Biotechnology</b> <b>Room: 311</b> <b>Chairs:</b> Dr. Chengdi Dong, Prof. Shihui Yang	<b>Food Engineering</b> <b>Room: 203</b> <b>Chairs:</b> Prof. Xiaobei Zhan, Prof. Cristobal N. Aguilar	<b>Industrial Biotechnology</b> <b>Room: 205</b> <b>Chairs:</b> Prof. Dawei Zhang, Prof. Ram Sarup Singh	<b>Upstream and Downstream Bioprocesses</b> <b>Room: 107</b> <b>Chairs:</b> Prof. Christian Larroche, Prof. Paramasamy Gunasekaran
09:00-09:20	<b>BB-IL-9 Dr. Raveendran Sindhu,</b> CSIR-National Institute for Interdisciplinary Science and Technology	<b>EB-IL-9 Prof. Chengdi Dong,</b> National Kaohsiung Marine University <b>Title:</b> Synthesis of magnetic biochar from bamboo biomass to activate persulfate for the	<b>FE-IL-9 Prof. Cristobal N. Aguilar,</b> Universidad Autónoma de Coahuila <b>Title:</b> Biodegradation of ellagitannins as tool for production of ellagic acid by	<b>IB-IL-9 Prof. Ram Sarup Singh,</b> Punjabi University <b>Title:</b> Production, purification and characterization of pullulan from <i>Aureobasidium pullulans</i> for the preparation of biofilms	<b>UDB-IL-9 Prof. Christian Larroche,</b> Université Clermont Auvergne <b>Title:</b> Present status and perspectives of immersed membrane bioreactors

	<b>Title:</b> Pretreatment strategies for chili post-harvest residue biorefinery	removal PAHs in marine sediments	fungal fermentation: enzymes and intermediates		
09:20-09:40	<b>BB-IL-10 Prof. Xinqing Zhao, Shanghai Jiao Tong University</b> <b>Title:</b> Metabolic engineering of yeast and <i>Trichoderma reesei</i> for biofuel production	<b>EB-IL-10 Prof. Shihui Yang, Hubei University</b> <b>Title:</b> Microbial biocatalyst development for economic advance biofuel production in omics era	<b>FE-IL-10 Prof. Xiaobei Zhan, Jiangnan University</b> <b>Title:</b> Characteristics of Rh <sup>3+</sup> biosorption by <i>Pichia Pastoris</i>	<b>IB-IL-10 Prof. Dawei Zhang, Tianjin Institute of Industrial Biotechnology</b> <b>Title:</b> Strategies of enzyme production in <i>Bacillus subtilis</i> and application examples	<b>UDB-IL-10 Prof. Paramasamy Gunasekaran, VIT University Chennai Campus</b> <b>Title:</b> Enzymes and antimicrobials of <i>Bacillus paralicheniformis</i> MKU3 for applications in leather industry
09:40-9:55	<b>BB-SO-13 Dr. J Shanthi Sraavan, CSIR-Indian Institute of Chemical Technology</b> <b>Title:</b> Cathodic reductive recovery of selenium in novel biocatalyzed electrochemical system	<b>EB-SO-13 Dr. Chengtuo Niu, Jiangnan University</b> <b>Title:</b> Insight into the thermostability of bacterial 1,3-1,4-β-glucanases through spatial compartmentalization of mutational hotspots	<b>FE-SO-13 Prof. Chengjian Jiang, Guangxi University</b> <b>Title:</b> Protein engineering by random mutagenesis of a metagenome-derived bifunctional cysteine sulfinate decarboxylase for the biosynthesis of taurine	<b>IB-SO-13 Dr. Mukesh Kumar Awasthi, Northwest A&amp;F University</b> <b>Title:</b> Role of Ca-bentonite and biochar for mitigation of greenhouse gas emissions during the bio-waste composting	<b>UDB-SO-13 Dr. Hongbo Zhou, Central South University</b> <b>Title:</b> Responses of microbial community to temperature and pH stresses in bioleaching of low grade copper sulfide
9:55-10:25	<b>TEA/COFFEE</b>				
10:25-11:00	<b>Bioenergy/Biofuels</b> <b>Room: 313</b> <b>Chairs:</b> Prof. R.D. Tyagi, Dr R Sindhu	<b>Environmental Biotechnology</b> <b>Room: 311</b> <b>Chairs:</b> Prof. Shih-Hsin Ho, Prof G Baskar	<b>Food Engineering</b> <b>Room: 203</b> <b>Chairs:</b> Prof. Chengjian Jiang, Prof Carlos R Soccol	<b>Industrial Biotechnology</b> <b>Room: 205</b> <b>Chairs:</b> Prof. M. J. Taherzadeh, Dr Mukesh K Awasthi	<b>Upstream and Downstream Bioprocesses</b> <b>Room: 107</b> <b>Chairs:</b> Dr. Neelam Singh Sangwan, Dr. Sunita J. Varjani
10:25-10:45	<b>BB-IL-11 Dr. Jong Moon Park, POSTECH</b> <b>Title:</b> Co-factor engineering of <i>Cyanobacteria</i> for enhancing ethanol production	<b>EB-IL-11 Dr. Javier Barrios-González, Universidad Autónoma Metropolitana – Iztapalapa</b>	<b>FE-IL-11 Prof. Carlos Ricardo Soccol, Federal University of Paraná State</b>	<b>IB-IL-11 Prof. Yuan Lu, Tsinghua University</b> <b>Title:</b> Cell-free synthetic biotechnology: an emerging engineering strategy to	<b>UDB-IL-11 Dr. Neelam Singh Sangwan, CSIR-Central Institute of Medicinal and Aromatic Plants</b>

		<b>Title:</b> Identification and applications of the environmental stimuli that induce higher secondary metabolites production in solid-state fermentation	<b>Title:</b> Development of functional starter cultures to improve quality of coffee and cocoa beans	revolutionize the biomanufacturing	<b>Title:</b> Bio-resource technology for productivity management using exogenous applications of hormonal and novel phytomolecules: Understanding through physiological, biochemical and molecular approaches
10:45-11:00	<b>BB-SO-14 Dr. C. Nagendranatha Reddy,</b> <i>Hong Kong Baptist University</i> <b>Title:</b> Upgradation of biogas in a biorefinery approach: Integrative strategy for simultaneous waste remediation and bioenergy generation	<b>EB-SO-14 Dr. Ying Shen,</b> <i>Fuzhou University</i> <b>Title:</b> Microalgal-Biochar immobilized complex: a novel efficient biosorbent for cadmium removal from aqueous solution	<b>FE-SO-14 Dr. Xueshan Pan,</b> <i>Xiamen University</i> <b>Title:</b> Proteomic analysis of astaxanthin biosynthesis in <i>Xanthophyllomyces dendrorhous</i> in response to glutamate feeding	<b>IB-SO-14 Dr. Lan Wang,</b> <i>Institute of Process Engineering, CAS</i> <b>Title:</b> Industrial technologies for lignocellulosic biobutanol production from hemicellulose hydrolysate	<b>UDB-SO-14 Dr. Chengcheng Li,</b> <i>Southeast University</i> <b>Title:</b> Overproduction of cellulase by <i>Trichoderma reesei</i> mutant SEU-7 using lactose in batch and fed-batch fermentation
11:15-12:15	<b>Plenary talks</b> Auditorium of Wenhao Hall <b>Chairman:</b> Prof. Guocheng Du, Dr Bhuwan B Mishra				
11:15-11:45	<b>Plenary 9 Prof. Thallada Bhaskar,</b> <i>CSIR-Indian Institute of Petroleum</i> <b>Title:</b> Thermochemical platform for valorization of biomass: Opportunities and Challenges				
11:45-12:15	<b>Plenary 10 Prof. Huu Hao Ngo,</b> <i>University of Technology, Sydney</i> <b>Title:</b> The effects of hydraulic retention time (HRT) on the performance of a hybrid moving bed biofilm reactor-membrane bioreactor system for micropollutant removal				
12:15-12:30	<b>Closing session</b> Auditorium of Wenhao Hall <b>Chairman:</b> Prof. Guocheng Du				
12:30-14:00	LUNCH, Changguangxi Hotel & Scholars Hotel				

