AFOB Summer Forum 2016

**Scientific Program**

August 16-19, 2016, Qingdao, China

**Contents**

|  |  |
| --- | --- |
| Welcome Address | 1 |
| Committees | 2 |
| Program Overview | 4 |
| Plenary Lectures | 5 |
| Presenter Guidelines and Awards | 7 |
| Scientific Program | 9 |

**Welcome Address**

It is an honor and a great pleasure to address to the scientific and industrial communities of biotechnology, comprising students, professors, researchers, company executives, government staff, and entrepreneurs, a special invitation to actively participate in the AFOB Summer Forum 2016 that is scheduled to take place in Qingdao, China, from 16-19 August 2016. The Organizing Committee has developed a hard work to present the most advanced issues on biotechnology, which will be discussed by a selected group of international speakers and lecturers, recommended by the Conference Scientific Committee.

The Forum is hosted by Chinese Society of Biotechnology and China University of Petroleum. To better design and guide the large numbers of participants of the Forum it was proposed five sessions covering different fields of biotechnology, including Emerging Diseases, Functional Foods, Biopharmaceuticals, Cosmetics and Free talks. Each session will focus on specific topics for oral presentations and posters selected from the abstracts submitted.

We would like to express our sincere gratitude to the members of the Scientific and Organizing Committee and volunteers for their huge efforts to make this Forum possible. We are also very grateful to the Forum sponsors for their support. Last but not least, we thank all of you, our membrane family, for your great contributions which make the Forum possible and successful.

It is our promise to do the best to make this symposium most fruitful and your visit to Qingdao most pleasant.

Sincerely,

George Fu Gao

Yoon-Mo Koo

Congress Chairs of AFOB Summer Forum 2016

**Committees**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Scientific Committee**

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| **-Chinese Mainland-** |
| Prof. Zhang-liang Chen (China Association of Science and Technology,Mainland China ) |
| Prof. Sheng-li Yang (Chinese Academy of Sciences) |
| Prof. Guo-ping Zhao (Chinese Academy of Sciences)Prof. Xi-yun Yan (Chinese Academy of Sciences)Prof. Huan-ming Yang (BGI) |
| Prof. Guo-jun Yue (COFCO Corporation) |
| Prof. Tian-wei Tan (Beijing University of Chemical Technology) |
| Prof. Zi-xin Deng (Shanghai Jiao Tong University) |
| Prof. Prof. Jian-jiang Zhong (Shanghai Jiao Tong University)Prof. Xian-en Zhang (Chinese Academy of Sciences)Prof. Honghong Shan (China University of Petroleum |
| Prof. Hai Xu (China University of Petroleum) |
| **-Korea-** |
| Prof. Jung-Keug Park (Dongguk University) |
| Prof. Young Je Yoo (Seoul National University) |
| Prof. Jeong Hoe Kim (KAIST) |
| Prof. Sang Ki Rhee (Suncheonhyang University) |
| Prof. Jin Ho Seo (Seoul National University) |
| Prof. Tai Hyun Park (Seoul National University) |
| Prof. Dong-Hwa Shin (Chonbuk National University) |
| Prof. Chang Seo Park (Dongguk University) |
| Prof. Yongho Park (Seoul National University) |
| **-Other Regions-** |
| Prof. Virendra S. Bisaria (IIT Delhi, India)Prof. Misri Gozan (Universitas, Indonesia) |
| Prof. Masahiro Goto (Kyushu University, Japan)Prof. Mohd Ali Hassan (Universiti Putra Malaysia, Malaysia) |
| Prof. Mishig-Ochir Tsogbadrakh (National University of Mongolia, Mongolia) |
| Prof. Joseph Auresenia (De La Salle University, Philippines) |
| Prof. Lam Kong Peng (BTI, Singapore) |
| Prof. Yew-Min Tzeng (National Taitung University, Taiwan) |
| Prof. Penjit Srinophakun (Kasetsart University, Thailand) |
| Prof. Linh-Thuoc Tran (Vietnam National University-Ho Chi Minh City, Vietnam) |

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**Committees**

**Organizing Committee**

**-Organizing Chairs-**

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| --- |
| George Fu Gao (Professor, Institute of Microbiology, Chinese Academy of Sciences, China) |
| Yoon-Mo Koo (Professor, Inha University, Korea) |

**-Secretary Generals-**

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| Yinhua Wan (Professor, Institute of Process Engineering, Chinese Academy of Sciences, China) |
| Yoon-Mo Koo (Professor, Inha University, Korea) |

**-Secretariat-**

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| Zhou Tong (China) |
| Benkun Qi (China) |
| Hai Xu (China) |
| Hyun Jung Kim (Korea) |
| **-Responsible person for each item-**

|  |  |  |
| --- | --- | --- |
| **Items** | **Contact person** | **Mobile phone** |
| Registration | Ms. Yuqing Jiang | +86 135 2133 7891 |
| Oral presentation | Prof. Hai Xu | +86 138 6393 6926 |
| Poster presentation | Dr. Yuming Wang | +86 186 6397 8292 |
| Transportation | Asso. Prof. Jiqian Wang | +86 158 5327 5673 |

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**Program Overview**

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 **Program Overview**

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| Date | Morning | Afternoon | Evening |
| August 16 |  |  | Registration (14:00-22:00) | Reception Buffet(18:30-20:30) |
| August 17 | Opening Ceremony（08:30-09:00） | Session & Panel Discussion: Emerging Diseases(13:30-15:40) | Session & Panel Discussion: Functional Foods(13:30-15:40) | Banquet(18:30-20:30) |
| Plenary 1 (09:00-09:30) |
| Plenary 2 (09:30-10:00)  |
| Plenary 3 (10:00-10:30) |
| Coffee Break (10:30-11:00) | Coffee Break (15:40-16:00) |
| Plenary 4 (11:00-11:30) | Session & Panel Discussion: Biopharmaceuticals (16:00-18:10) | Session & Panel Discussion: Cosmetics(16:00-18:10) |
| Plenary 5 (11:30-12:00) |
| Lunch (12:00-13:30) |
| August 18 | Session A: Emerging Diseases （09:00-10:00） | Session B: Functional Foods（09:00-10:00） | Session C: Biopharm-aceuticals（09:00-10:00） | Poster Presentation(13:30-15:00) | Dinner(18:00-20:00) |
| Session D:Free talk I (15:00-16:00) | Session D:Free talk II (15:00-16:00) | Session D:Free talk III(15:00-16:00) |
|
| Coffee Break (10:00-10:30) | Coffee Break (16:00-16:30) |
| Session A (Cont.)（10:30-11:30） | Session B (Cont.)（10:30-11:30） | Session C (Cont.)（10:30-11:30） | Session D:Free talk I (16:30-17:10) | Session D:Free talk II (16:30-17:10) | Session D:Free talk III(16:30-17:10) |
| Lunch (12:00-13:30) | Closing Ceremony and Awards (17:10-17:40） |
| August 19 | Optional Technical Visit: Qingdao Brightmoon Seaweed Group Co., Ltd., China ( <http://www.bmscn.com/index.php?s=/Home/Index_en/index_en/>) (09:00-12:00) | Optional Sightseeing13:30- 16:30 |  |
| Move to Venue16:30-17:00 |
| Lunch (12:00-13:30) |

**Plenary lectures**

**Plenary lectures**

**Wednesday, August 17, 2016, 09:30-10:00**

**Wednesday, August 17, 2016, 09:30-10:00**

**One Health Approaches to Emerging Zoonotis Diseases: HPAI and MERS**

Yong Ho Park

*Seoul National University, Korea*

**One Health Approaches to Emerging Zoonotis Diseases: HPAI and MERS**

Yong Ho Park

*Seoul National University, Korea*

Professor Park has achieved his DVM and MS at College of Veterinary Medicine, Seoul National University, Korea. In 1991, he has obtained his PhD in veterinary microbiology at Washington State University, US. He has worked at National Veterinary Research Institute for 18 years starting from 1978 to 1995 until he moved to Professor at College of Veterinary Medicine, Seoul National University.

Prof. Park has been appointed as an adjunct Professor at the College of Veterinary Medicine, Washington State University since 1996 and has been also appointed as an affiliate professor at Mississippi State University since 2013.

Prof. Park has served as a dean of College of Veterinary Medicine, SNU from 2007 and honored as fellow at Korean Academy of Science and Technology. During 2008-2010, Professor Park has served as a president of Asian Association of Veterinary Schools (AAVS), and also a president of the Korean Society of Food Hygiene and Safety and a president of Korean Society for Zoonoses and chairperson of Korean Society of Veterinary Science. From 2011 to 2014, he has worked as a commissioner at the Animal, Plant, Fisheries, Quarantine and Inspection Agency, KOREA. Currently, he has returned to the previous position as a professor, College of Veterinary Medicine, Seoul National University. He has published more than 240 papers, mainly pathogenesis and antimicrobial resistance of zoonotic diseases, at referred journals and got 20 patents and wrote 6 book chapters.

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**Wednesday, August 17, 2016, 10:00-10:30**

**Wednesday, August 17, 2016, 10:00-10:30**

**Synthetic Biology for the Next Generation-Biotechnology－Nirvana of a Fermentation laboratory，Rebirth in the fire of Convergence revolution**

Guoping Zhao

*Shanghai Institute of Biological Sciences, Chinese Academy of Sciences, China*

**Synthetic Biology for the Next Generation-Biotechnology－Nirvana of a Fermentation laboratory，Rebirth in the fire of Convergence revolution**

Guoping Zhao

*Shanghai Institute of Biological Sciences, Chinese Academy of Sciences, China*

Prof. Guoping Zhao is a molecular microbiologist and has been working on microbial molecular physiology and metabolic regulation since his graduation from Fudan University, Shanghai China in 1982. Currently, he is the Director of Laboratory of Synthetic Biology, at the Institute of Plant Physiology and Ecology (IPPE), Shanghai Institutes for Biological Sciences (SIBS), Chinese Academy of Sciences (CAS).

Prof. Zhao was elected as a member of the CAS in 2005 and elected as the President of the Chinese Society for Microbiology in 2006. He was appointed as the Director of Shanghai Research Center of Biotechnology (SRCB), CAS, from 1997 to 1999 and the Vice-President of SIBS from 1999 to 2002, where he began to work for the Human Genome Project of the CAS (1998-2001). Since 2002, he has been the Executive Director of the Chinese National Human Genome Center at Shanghai and Director of the National Engineering Center for BioChip at Shanghai. Meanwhile, he focused his research activities on genomics and systems biology of microorganisms, including the genomic study of Leptospira interrogans, the functional genomic study of Xanthomonas campestris, the evolution genomic study of SARS coronavirus, and the comparative genomic study of Mycobacterium tuberculosis.

Prof. Zhao obtained his Ph.D. degree of Biochemistry from Purdue University, Indiana, USA in 1990 and returned to China in 1992 as the founding production manager of Shanghai Promega Biological Products, Ltd, a subsidiary joint venture of SRCB, CAS. He was promoted to full Professor in 1995 after rejoining the Shanghai Institute of Plant Physiology (SIPP), CAS.

Prof. Guoping Zhao is a molecular microbiologist and has been working on microbial molecular physiology and metabolic regulation since his graduation from Fudan University, Shanghai China in 1982. Currently, he is the Director of Laboratory of Synthetic Biology, at the Institute of Plant Physiology and Ecology (IPPE), Shanghai Institutes for Biological Sciences (SIBS), Chinese Academy of Sciences (CAS).

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**Plenary lectures**

**Plenary lectures**

**Wednesday, August 17, 2016, 11:00-11:30**

**Wednesday, August 17, 2016, 11:00-11:30**

**Korean Fermented Foods: Bright Future as International Healthy Foods**

Dong-Hwa Shin

*Chonbuk National University, Korea*

**Korean Fermented Foods: Bright Future as International Healthy Foods**

Dong-Hwa Shin

*Chonbuk National University, Korea*

Prof. Dong-Hwa Shin is an emeritus professor of Chonbuk National University in Jeonju, Korea.

Prof. Shin has 18 years of experience in food research field at Food Research Institute in AFDC which is Korean government's running organization and transferred to Chonbuk National University in Dept. of Food Science & Technology worked for 20 years. During these time he published 350 research papers, 15 patents and 16 books. His major field is food fermentation, especially soybean and vegetable base fermentation. Base on his research works he transferred related 30 techniques to the related industries to be commercialized.

Prof. Shin has been serviced as advisor of different Governmental organizations and private food manufacturing companies

He is a member of Korean Advance Science & Technology, the president of Korean Society of Food Science Technology (2002) and Korean Association of Food Sanitation (2004-2016). At present he is the president of Korean Council for Sunchang Soybean Fermentation Science and running as Director of Shindonghwa Food Research Institute.

**Wednesday, August 17, 2016, 11:30-12:00**

**Wednesday, August 17, 2016, 11:30-12:00**

**Precision Medicine and Antigen Selection**

George F. Gao

*Institute of Microbiology, Chinese Academy of Sciences, China*

Professor George F. Gao obtained his PhD (DPhil) degree from Oxford University, UK and did his postdoc work in both Oxford University and Harvard University (with a brief stay in Calgary University). His research interests include enveloped viruses and molecular immunology. His group research is mainly focusing on the enveloped virus entry and release, esp. influenza virus interspecies transmission (host jump), structure-based drug-design and structural immunology. He is also interested in virus ecology, esp. the relationship between influenza virus and migratory birds or live poultry markets and the bat-derived virus ecology and molecular biology. He has published more than 380 refereed papers, 11 books or book chapters and has applied and obtained more than 25 UK, US and Chinese patents. His research has recently expanded on public health policy and global health strategy. He led the China CDC team in 2014 (From Sep. to Nov.) to work in Sierra Leone for fighting against Ebola and his heroic role there has made a great deal for the field work. Gao is a member (academician) of Chinese Academy of Sciences, a fellow of The Third World Academy of Sciences (TWAS, also known as The World Academy of Sciences), a fellow of American Academy of Microbiology (AAM)and an associate member of EMBO. Gao is a recipient of several international and national awards, including TWAS Medical Prize (2012), Nikkei Asian Prize (2014) and HLHL S&T Advancement Award (2015).

**Presenter Guidelines and Awards**

**Presenter Guidelines and Awards**

**Oral Presentation**

**Oral Presentation**

**Poster Presentation**

**Poster Presentation**

Each session room has a laptop, a laser pointer and a microphone. Since the conference schedule is tight, speakers are requested to mark their presence by uploading your presentation at least 20 minutes before the sessions start. Speakers are kindly requested to respect the time. Plenary lectures are allocated 30 minutes containing 5 minutes for questions. Presentation in panel discussion sessions has 20 min for talk and panel discussion is at the end of each session. General oral presentation lasts 20 minutes containing 3 minutes for questions.

**Student presentation awards**

**Student presentation awards**

The Forum will provide student presentation awards. All applications will be evaluated and the winners will be announced at the end of the Forum on August 18 (Thursday) 2016, during the closing ceremony of AFOB Summer Forum 2016.

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**Poster will be displayed in the corridor in front of HEYUE HALL (和悦厅前走廊), 3F**

Time: 13:30-15:00, August 18 (Thursday), 2016.

**Set and remove your poster**

Poster numbers supplied by the Forum will appear on the top right hand side of poster board, Material for attaching/holding posters will be provided. Pins and any other material that could perforate the boards are strictly prohibited. Poster authors are responsible for posting and removing their posters by themselves. Poster should be posted during 09:30-11:00 and removed before 19:00 on August 18 (Thursday).

**Poster will be displayed in the corridor in front of HEYUE HALL (和悦厅)**

Time: 13:30-15:00, August 18 (Thursday), 2016.

**Set and remove your poster**

Poster numbers supplied by the Forum will appear on the top right hand side of poster board, Material for attaching/holding posters will be provided. Pins and any other material that could perforate the boards are strictly prohibited. Poster authors are responsible for posting and removing their posters by themselves. Poster should be posted during 09:30-11:00 and removed before 19:00 on August 18 (Thursday).

**AFOB**

**Summer Forum 2016**

**Scientific Program**

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| **Time** | **Items** |
| **14:00-22:00** | RegistrationSpot: Lobby of the hotel |
| **18:30-20:30** | Reception BuffetRoom: XINYUE LOUNGE BAR (心悦大堂吧), 2F |

**Aug. 16 (Tuesday), 2016**

**Aug. 16 (Tuesday), 2016**

**Aug. 17 (Wednesday), 2016**

**Aug. 17 (Wednesday), 2016**

|  |  |
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| **Time** | **Room: QIANYUE HALL (乾悦厅), 4F** |
| **Chairs: Professor George Fu Gao and Professor Yoon-Mo Koo** |
| **08:30-09:00** | **Opening Ceremony**Welcome address *by Professor Ho Nam Chang, President of AFOB*Welcome address *by Zhaomin Li, Vice-president of CUP*'Current Status and Progress of AFOB' *by Professor Tai Hyun Park President of KSBB (The Korean Society for Biotechnology and Bioengineering), Seoul National University, Korea* |
| **09:00-09:30** | **PL-01:** **The 13th-Five Year Plans for Biotechnology Development in China**Zhaofeng Zhang *Division of Biotechnology and Medicine, Ministry of Science and Technology, China* |
| **09:30-10:00** | **PL-02:** **One Health Approaches to Emerging Zoonotis Diseases: HPAI and MERS**Yong Ho Park*Seoul National University, Korea* |
| **10:00-10:30** | **PL-03: Synthetic Biology for the Next Generation-Biotechnology－Nirvana of a Fermentation laboratory，Rebirth in the fire of Convergence revolution**Guoping Zhao*Shanghai Institute of Biological Sciences, Chinese Academy of Sciences, China* |
| **10:30-11:00** | **Coffee break** |
| **11:00-11:30** | **PL-04:**  **Korean Fermented Foods: Bright Future as International Healthy Foods**Dong-Hwa Shin*Chonbuk National University, Korea* |
| **11:30-12:00** | **PL-05:**  **Precision Medicine and Antigen Selection**George F. Gao *Institute of Microbiology, Chinese Academy of Sciences, China* |
| **12:00-13:30** | **Lunch****Room: XINYUE LOUNGE BAR (心悦大堂吧), 2F** |

**Aug. 17 (Wednesday), 2016**

**Aug. 17 (Wednesday), 2016**

|  |  |
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| **Time** | **Room: QIANYUE HALL (乾悦厅), 4F** |
| **Session & Panel Discussion: Emerging Diseases** |
| **Chairs:**  **Prof. Mifang Liang and Prof. Yong Ho Park** |
| **13:30-13:50** | **IN-01:** **Experience of MERS Outbreaks in Korea**Woo Joo Kim *Korea University, Korea* |
| **13:50-14:10** | **IN-02:**  **Rapid Detection of MERS and ZIKA** Jae Hyung You*SolGent Co., Korea* |
| **14:10-14:30** | **IN-03:**  **SFTS virus: a novel virus with a new emerging infectious disease SFTS**Mifang Liang *Chinese Center for Disease Control and Prevention, China* |
| **14:30-14:50** | **IN-04:**  **Define the Epidemiology of Human Avian Influenza A(H7N9) in China**Luzhao Feng*Chinese Center for Disease Control and Prevention, China* |
| **14:50-15:10** | **IN-05:**  **Emerging GII17 norovirus variant in China**Zhaojun Duan*Chinese Center for Disease Control and Prevention, China* |
| **15:10-15:40** | **Panel Discussion** |
| **15:40-16:00** | **Coffee break** |
| **Session & Panel Discussion:**  **Biopharmaceuticals**  |
| **Chairs: Prof. Ningning Ma and Dr. Shin Jae Chang** |
| **16:00-16:20** | **IN-06: Development of Stem Cell Therapeutics in Korea**Kyung-Sun Kang*Kangstem Biotech, Korea* |
| **16:20-16:40** | **IN-07: Global Environment for the Development of mAb Biosimilar** Shin Jae Chang *Celltrion, Inc., Korea* |
| **16:40-17:00** | **IN-08: Development of Vaccine for Public Health: Inactivated Oral Cholera Vaccine**Yeong-Ok Baik*EuBiologics Co.Korea* |
| **17:00-17:20** | **IN-09: Streamlining pharmaceutical protein processes**Zhiguo Su*Institute of Process Engineering, Chinese Academy of Sciences, China* |
| **17:20-17:40** | **IN-10: Bioreactor scale-up**Ningning Ma*Shenyang Pharmaceutical University, China* |
| **17:40-18:10** | **Panel Discussion** |
| **18:30-20:30** | **Banquet****Room: QIANYUE HALL (乾悦厅), 4F** |

**Aug. 17 (Wednesday), 2016**

**Aug. 17 (Wednesday), 2016**

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| **Time** | **Room: KUNYUE HALL (坤悦厅), 4F** |
| **Session & Panel Discussion: Functional Foods** |
| **Chairs: Prof. Yongning Wu and Prof. Dong-Hwa Shin** |
| **13:30-13:50** | **IN-11: Ethnic Fermented Food: Microbiology & Health Benefits (Gochujang)**Soo-Wan Chae *Chonbuk National University Hospital, Korea* |
| **13:50-14:10** | **IN-12:**  **Development of high value added functional foods using the integration and composite technology**Hong Sig Sin *CheBiGen Inc., Korea* |
| **14:10-14:30** | **IN-13:**  **Functional Food and Key Inspection Specially in Food Safety Law**Yongning Wu*Key Laboratory of Food Safety Risk Assessment, Ministry of Health, China* |
| **14:30-14:50** | **IN-14:**  **Application of Microbiome Technology in Food Industry**Xiaowei Zheng *Biotechnology Center, Nutrition and Health Research Institute, COFCO, China* |
| **14:50-15:10** | **IN-15:**  **Systematic Analysis of an Evolved *Thermobifida Fusca* muC Producing Malic Acid on Organic and Inorganic Nitrogen Sources**Yu Deng*Jiangnan University, China* |
| **15:10-15:40** | **Panel Discussion** |
| **15:40-16:00** | **Coffee break** |
| **Session & Panel Discussion:**  **Cosmetics**  |
| **Chairs:**  **Prof. Chang Seo Park and Dr. Chunyang Zheng** |
| **16:00-16:20** | **IN-16: Skin Barrier Research in Cosmetics – No barrier, No protection**Chang Seo Park*Dongguk University, Korea* |
| **16:20-16:40** | **IN-17: Natural Product Discovery Platform for Cosmetic Active Ingredients**Kyoung Tai No*Yonsei University, Korea* |
| **16:40-17:00** | **IN-18: Innovation through Biotechnology on Cosmetic Industry in Amorepacific**Jun Seong Park*Amorepacific R&D Unit, Korea* |
| **17:00-17:20** | **IN-19：Translational Medicine Development of Growth Factor**Jiaokun Li*Wenzhou University, China* |
| **17:20-17:40** | **IN-20:**  **Precision Skincare with Multi-omics Testing, Meta Data Model and Personalized Formulation**Chunyang Zheng*Robustnique Corp. Ltd., Tianjin; iCarbonX Ltd., Shenzhen, China* |
| **17:40-18:10** | **Panel Discussion** |
| **18:30-20:30** | **Banquet** **Room: QIANYUE HALL (乾悦厅), 4F** |

**Aug. 18 (Thursday), 2016**

**Aug. 18 (Thursday), 2016**

|  |  |
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| **Time** | **Room: HEYUE HALL (和悦厅), 3F** |
| **Session A: Emerging Diseases**  |
| **Chairs: Prof. Yi Shi and Prof. Tai Hyun Park** |
| **09:00–09:20** | **IN-21: Structure of Zika Virus NS1: Association with Virus Infection and Immune System**Yi Shi*Institutes of Microbiology, Chinese Academy of Sciences, China* |
| **09:20–09:40** | **IN-22: Emerging tick-borne infections in mainland China**Na Jia*Beijing Institute of Microbiology and Epidemiology, China* |
| **09:40-10:00** | **O-01: The T cell immunity of highly pathogenic viruses: from SARS-CoV to Ebola virus**Jun Liu*Chinese Center for Disease Control and Prevention, China* |
| **10:00–10:30** | **Coffee break** |
| **10:30-10:50** | **IN-23:**  **Molecular basis of antibody-mediated neutralization and protection against Zika virus**Lianpan Dai *Beijing Institutes of Life Science, Chinese Academy of Sciences, China* |
| **10:50-11:10** | **O-02: Characterization of anti-MERS-CoV antibody profiles in the infection patient based on various recombinant structural antigens of MERS-CoV**Wenjie Tan*Chinese Center for Disease Control and Prevention, China* |
| **11:10–11:30** | **O-03: Structure and Receptor Binding of Hemagglutinin-esterase-fusion Glycoprotein from Newly-identified Influenza D Virus**Hao Song*Beijing Institutes of Life Science, Chinese Academy of Sciences, China* |
| **12:00-13:30** | **Lunch****Room: XINYUE LOUNGE BAR (心悦大堂吧), 2F** |

**Aug. 18 (Thursday), 2016**

**Aug. 18 (Thursday), 2016**

|  |  |
| --- | --- |
| **Time** | **Room: MEETING ROOMS (3) (会议室3), 3F** |
| **Session B: Functional Foods** |
| **Chairs: Prof. Misri Gozan and Prof. Yu Deng** |
| **09:00–09:20** | **O-04: Comprehensive Molecular Characterization of *Methylobacterium Extorquens* AM1 for Adapted 1-Butanol Tolerance**Song Yang*Qingdao Agricultural University, China* |
| **09:20–09:40**  | **O-05: Simultaneous Saccharification and Fermentation of Acetoin from Biomass with Thermophilic *Bacillus Subtilis***Yejun Han*Institute of Process Engineering, Chinese Academy of Sciences, Beijing , China* |
| **09:40-10:00** | **O-06: Microbial Lipids Production from Lignocellulosic Biomass**Mingjie Jin*Nanjing University of Science and Technology, China* |
| **10:00–10:30** | **Coffee break** |
| **10:30-10:50** | **O-07: Bioactive 2,3,5,6-tetramethylpyrazine (ligustrazine) in Traditional Chinese Vinegar and Its Generation Mechanism**Zhen-Ming Lu*Jiangnan University, China* |
| **10:50-11:10** | **O-08: Industrial Enzymes Development-from Genes Screening to Products Application**Bo Tang*Qingdao Vland Biotech Inc., China* |
| **11:10–11:30** | **O-09: Polysaccharide-Protein (Peptide) Complexes in Mushrooms: Structure, Antitumor Activity and Mechanism**Fengjie Cui*Jiangsu University, China* |
| **12:00-13:30** | **Lunch****Room: XINYUE LOUNGE BAR (心悦大堂吧), 2F** |

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| **Time** | **Room: MEETING ROOMS (6) (会议室6), 3F** |
| **Session C: Biopharmaceuticals** |
| **Chairs: Prof. Jian-Jiang Zhong and Prof. Eun Kyu Lee** |
| **09:00–09:20** | **IN-24:**  **Engineering of Higher-fungus Cell Factory for Efficient Production of Bioactive Secondary Metabolites**Jian-Jiang Zhong *Shanghai Jiao Tong University, China* |
| **09:20–09:40** | **O-10: Single-Use Technologies in Biologics and Vaccines Manufacturing Industries**Eun Kyu Lee *Hanyang University, Korea* |
| **09:40-10:00** | **O-11: Design of Dual-functions Peptide for the Delivery of Paclitaxel into Mammalian Cells**Yuping Wei *Institute of Process Engineering, Chinese Academy of Sciences, China* |
| **10:00–10:30** | **Coffee break** |
| **10:30–10:50** | **IN-25: Key Problems in the Research and Development Bioactive Seaweed Substances**Yimin Qin*Qingdao Brightmoon Seaweed Group Co Ltd, China* |
| **10:50-11:10** | **O-12: A Century of Chromatographic Separation Technology and its Advances and Development in China today.**Lim Meng Yit, Charles *Lisure Science, Biobay, SIP China* |
| **11:10-11:30** | **IN-26: Safety and Pathways of Intestinal Absorption for Chitosan Nanocarriers**Xi Guang Chen*Ocean University of China, China, China* |
| **12:00-13:30** | **Lunch****Room: XINYUE LOUNGE BAR (心悦大堂吧), 2F** |

**Aug. 18 (Thursday), 2016**

**Aug. 18 (Thursday), 2016**

**Aug. 18 (Thursday), 2016**

**Aug. 18 (Thursday), 2016**

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| **Time** | **Items** |
| **13:30–15:00** | **Poster Session** **Spot: the corridor in front of HEYUE HALL (和悦厅前走廊), 3F** |
| **Session D: Free Talk I** **Room: HEYUE HALL (和悦厅), 3F** |
| **Chairs:**   **Prof. Kong-Peng Lam and Prof. Choul-Gyun Lee** |
| **15:00–15:20** | **IN-27: Bioprocessing Technology Institute: Establishing Technology Platforms for Biologics Discovery, Development and Production** Kong-Peng Lam*Bioprocessing Technology Institute, A\*STAR, Singapore* |
| **15:20–15:40** | **O-13: Optimizing Microalgal Production of Biochemicals** **using Multi-Omics Technology**Choul-Gyun Lee *Inha University, Korea* |
| **15:40-16:00** | **O-14: On-site Production of Low Cost Cellulolytic Enzymes for Integrated Lignocellulosic Biomass Biorefinery**Yinbo Qu*Shandong University, China* |
| **16:00–16:30** | **Coffee break** |
| **16:30-16:50** | **O-15: Development of Botulinum-Toxin Substitutes using Plant-Derived Small Molecules** Dae-Hyuk Kweon *Sungkyunkwan University, Korea* |
| **16:50–17:10** | **O-16: Generation of Efficient and Thermostable Phosphotriesterases Variants for Organophosphorus Pesticides Biodegradation**Hui-Lei Yu *East China University of Science and Technology, China* |
| **17:10-17:40** | **Closing Ceremony and Awards** *Chairs: Professor Ho Nam Chang and Professor Yinhua Wan***Room: QIANYUE HALL (乾悦厅), 4F** |
| **18:00-20:00** | **Dinner****Room: XINYUE LOUNGE BAR (心悦大堂吧), 2F** |

**Aug. 18 (Thursday), 2016**

**Aug. 18 (Thursday), 2016**

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| **Time** | **Items** |
| **13:00–15:00** | **Poster Session****Spot: the corridor in front of HEYUE HALL (和悦厅前走廊), 3F** |
| **Session C: Free Talk II****Room: MEETING ROOMS (3) (会议室3), 3F** |
| **Chairs: Prof. Masahiro Goto and Prof. Feng-Wu Bai**  |
| **15:00–15:20** | **IN-28: Development of Lotion as Repellent from Tobacco Leaves (Nicotiana tabacum)**Misri Gozan *Universitas Indonesia, Indonesia* |
| **15:20–15:40** | **IN-29: Commercialization of Surfactant-coated Nano Capsules** **as Novel Functional Cosmetics**Masahiro Goto *Kyushu University, Japan* |
| **15:40-16:00** | **O-17: Synthesis of plant natural products by synthetic biology in yeast** Huifeng Jiang*Tianjin Institute of Industrial Biotechnology, Chinese Academy of Sciences, China* |
| **16:00–16:30** | **Coffee break** |
| **16:30-16:50** | **IN-30: Overproduction of Cellulase by *Trichoderma reesei* Through Batch-feeding of the Mixture Containing Glucose and β-Disaccharides**Feng-Wu Bai *Shanghai Jiao Tong University, China* |
| **16:50–17:10** | **O-18: Bio-inspired Multifunctional Membrane: a Promising Way for Aquatic Micro-pollutants Removal**Jianquan Luo *Institute of Process Engineering, Chinese Academy of Sciences, China* |
| **17:10-17:40** | **Closing Ceremony and Awards** *Chairs: Professor Ho Nam Chang and Professor Yinhua Wan***Room: QIANYUE HALL (乾悦厅), 4F** |
| **18:00-20:00** | **Dinner****Room: XINYUE LOUNGE BAR (心悦大堂吧), 2F** |

**Aug. 18 (Thursday), 2016**

**Aug. 18 (Thursday), 2016**

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| **Time** | **Items** |
| **13:00–15:00** | **Post Session****Spot: the corridor in front of HEYUE HALL (和悦厅), 3F** |
| **Session D: Free Talk III****Room: MEETING ROOMS (6) (会议室6), 3F** |
| **Chairs: Prof. Yin Li and Prof. Chun Li** |
| **15:00–15:20** | **IN-31: White Biotechnology & Green Bioeconomy: Building up a Sustainable Future for China**Yin Li *Tianjin Institute of Industrial Biotechnology, Chinese Academy of Sciences, China* |
| **15:20–15:40** | **O-19: Gene Circuit Boosts High-Temperature Fermentation with Low Energy Consumption**Chun Li *Beijing Institute of Technology, China* |
| **15:40-16:00** | **O-20: Comparison of enzymatic hydrolysis of wheat straw stems and leaves pretreated by dilute acid and alkali** Benkun Qi *Institute of Process Engineering, Chinese Academy of Sciences, China* |
| **16:00–16:30** | **Coffee break** |
| **16:30-16:50** | **O-21: Utilization of Hydrolysate from the Pretreatment of Lignocellulosic Biomass for the Electricity Generation by Enzymatic Fuel Cell**Seung Wook Kim *Korea University, Korea* |
| **16:50-17:10** | **O-22: Optimization of acetic acid production rate by thermotolerant *Acetobacter spp.***Ali Azam Talukder *Jahangirnagar University, Bangladesh* |
| **17:10-17:40** | **Closing Ceremony and Awards** *Chairs: Professor Ho Nam Chang and Professor Yinhua Wan***Room: QIANYUE HALL (乾悦厅), 4F** |
| **18:00-20:00** | **Dinner** **Room: XINYUE LOUNGE BAR (心悦大堂吧), 2F** |

**Aug. 19 (Friday), 2016**

**Aug. 19 (Friday), 2016**

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| **Time** | **Items** |
| 09:00 – 12:00 | Optional Technical Visit: Qingdao Brightmoon Seaweed Group Co., Ltd., China ( <http://www.bmscn.com/index.php?s=/Home/Index_en/index_en/>) (09:00-12:00) |
| 12:00 – 13:30 | Lunch |
| 13:30 – 16:30 | Optional Sightseeing  |
| 16:30 – 17:00 | Move to venue |

**Poster**

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| P-01 | **Spheroid Size Control for 3D Culture Using Magnetic Nanoparticles and Its Application to Stem Cell Differentiation**Tai Hyun Park*Seoul National University, Korea* |
| P-02 | **A new mosquito-borne reassortment orbivirus isolated from Xishuangbanna, China**Jiusong Zhang *Beijing Institute of Microbiology and Epidemiology, China* |
| P-03 | **5-(3’, 4’-Dihydroxyphenyl)-γ-valerolactone, a Metabolite of Procyanidins in Cacao, Suppresses MDI-induced Adipogenesis** **by Regulating Cell Cycle Progression** Ki Won Lee *Seoul National University, Korea* |
| P-04 | **Neoagarotetraose, enzymatically-prepared from natural marine algae, exhibits anti-aging efficacy on human dermal fibroblasts**Soon-Kwang Hong*Myongji University, Korea* |
| P-05 | **‘Solid-Phase Technology’ in Biopharmaceutical Proteins Processing** E. K. Lee*Hanyang University, Korea* |
| P-06 | **Realizing High Protein Polishing Efficiency of Salt-Tolerant Anion-Exchange Membrane Adsorber through Dopamine Coating on a Hydrophobic Membrane**Jinxin Fan*Institute of Process Engineering, Chinese Academy of Sciences* |
| P-07 | **Improving Antifouling Property of Polysulfone Membrane by Immobilization of Bovine Serum Albumin**Mingbo Ji*Institute of Process Engineering, Chinese Academy of Sciences* |
| P-08 | **Visible Light Mediated Direct Difluoroacetylation of Uracils and Uracil Nucleosides**Chun-Yang He*Zunyi Medical University, China* |
| P-09 | **Construction of amino acid dehydrogenase library** Xin-Jian Yin*Zhejiang University,China* |
| P-10 | **De novo biosynthesis of γ- linolenic acid in Yarrowia lipolytica**Mei-Li Sun*Nanjing Tech University, China* |
| P-11 | **Improving gibberellic acid accumulation in Fusarium fujikuroi through B-group vitamin addition**Hui Peng*Nanjing Tech University, China* |
| P-12 | **Characteristics of luciferase from Photinus pyralis by SpyCatcher /SpyTag‑mediated spontaneous cyclization**Meng Si*Nanjing Tech University, China* |
| P-13 | **In silico design of ionic liquids for high cellulose dissolution**Ngoc Lan Mai *Inha University, Korea* |

**Poster**

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| P-14 | **Prediction of chromatographic retention-related parameters of sugars on ion exchange chromatography using quantitative structure-retention relationship (QSRR) model**Moon-Soo Lim*Inha University, Korea* |
| P-15 | **Evaluation of Adsorption Isotherm Measurement Method for Simulated Moving Bed Chromatography Process** Jae-Ryong Song *Inha University, Korea* |
| P-16 | **Nicking enzyme-based NASBA-mimicking isothermal amplification for RNA detection**Hyo Yong Kim*KAIST, Korea* |
| P-17 | **Biomass Degradation by Cellulosome-based Enzyme Complexeswith Enhanced Enzyme Activity for Bioenergy Producing**Jeong Eun Hyeon*Korea University, Korea* |
| P-18 | **Effect of Electromagnetic Fields for Melanogenesis on melanocytes with Various Intensities**Jung-Keug Park*Dongguk University, Korea* |
| P-19 | **Homeostatic regulation of metabolic pathway and immune response by agar-derived neoagarooligosaccharides**Je Hyeon Lee*Dyne Bio Inc., Korea* |
| P-20 | **Production of Polyhydroxyalkanoates by Saccharophagus degradans**Beom Soo Kim*Chungbuk National University, Korea* |
| P-21 | **Identification and application of a novel cold-adapted GH39 β-agarase from an agar-degrading marine bacterium Gayadomonas joobiniege G7**Soon-Kwang Hong*Myongji University, Korea* |
| P-22 | **Methane bioconversion to bio-acetone using methanotrophs as the biocatalyst**Eun Yeol Lee*Kyung Hee University, Korea* |
| P-23 | **Antimicrobials resistance rate of Escherichia coli isolates from swine feces and fluoroquinolone resistance mechanisms**Yoon Sung Hu*Seoul National University, Korea* |
| P-24 | **Sensitive Assay of Base Excision Repair Enzyme Activity Using Fluorescent G-quadruplex Probe**Chang Yeol Lee*KAIST, Korea* |
| P-25 | **Colicin in Replacement of Antibiotics as a Postweaning Pig Feeding Supplement**Jiann-Hwa Chen*National Chung Hsing University, Chinese Taipei* |
| P-26 | **The number of ATGC is more than CGTA in most DNA sequences**Zhiyu Chen*Shanghai Peiyou School, China* |

**Poster**

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| P-27 | **Screening, cloning and expression of transaminases and its application in the production of L-Phosphinothricin**Li-Jun Meng*Zhejiang University, China* |
| P-28 | **Improved catechol degradation by immobilized laccase on polyethylenimine-functionalized magnetic Fe3O4 nanoparticles**Tingting Xia*Institute of Process Engineering, Chinese Academy of Sciences, China* |
| P-29 | **Vanillic acid enhances laccase production from Trametes versicolor**Kefeng Wang *Institute of Process Engineering, Chinese Academy of Sciences, China* |
| P-30 | **Enhanced Acetate Production by Reducing the Inhibition of Hydrogen Partial Pressure during Anaerobic Fermentation**Miaomiao Zhou*Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, China* |
| P-31 | **Enzyme-based Microbial Decontamination**Jungbae Kim*Korea University, Korea* |
| P-32 | **Construction of phi29 RNA-Quantum Dot Hybrid Nanostructure for****ReRAM Device Application** Taek Lee *Sogang University, Korea* |
| P-33 | **Transcriptomic and proteomic analyses reveal global effect of zinc addition on acetic acid stress tolerance of *Saccharomyces cerevisiae*** Hongqi Chen *Dalian University of Technology, China* |
| P-34 | **Highly efficient and enantioselective biosynthesis of (R)-2-chloro-1-(2,4-dichlorophenyl) ethanol with a reductase SsCR from Scheffersomyces stipites CBS 6045**Yue-Peng Shang *East China University of University of Technology, China* |
| P-35 | **Rapid Probing the Reactivity of P450 monooxygenases from CYP116B subfamily using Substrate-based method**Ren-Jie Li *East China University of University of Technology, China* |
| P-36 | **Metabolic engineering of *Escherichia coli* for the production of cinnamaldehyde** Hyun Bae Bang *Korea Advanced Institute of Science and Technology (KAIST), Korea* |
| P-37 | **Characterization of Highly Pathogenic Avian Influenza H5N6 Viruses in Avian and Mammals**Honglei SunChina Agricultural University, China |
| P-38 | **Effects of drought simulated by PEG-6000 on related wildsweetpotato seeding pysiological and biochemical indexes**Xue-hua LiChina university of Mining and Technology, China |