

International Marine Microbiology Conference

22-25 May, 2015,

Qingdao, China

Program & Handbook (final circular)



<http://immc2015.csp.escience.cn/>

International Marine Microbiology Conference

22-25 May 2015, Qingdao, China

Organizers

Ocean University of China
Institute of Oceanology, Chinese Academy of Sciences (CAS)
Chinese BETCEN/BAC/UNESCO
Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences (CAFS)
Marine Biological Engineering Society, Chinese Society for Oceanography
The Third Institute of Oceanography, State Oceanic Administration (SOA), China
Marine Biology Institute of Shandong Province, China

Sponsors

United Nations Education, Scientific and Cultural Organization (UNESCO)
National Natural Science Foundation of China (NSFC)
Major State Basic Research Development Program of China (973 program)
OUC-UEA Strategic Alliance in Integrative Ocean Science
China GLOBEC-IMBER
The National High Technology Research and Development Program of China (863 Program)
The China Ocean Mineral Resources Research and Development Association (COMRA)
China Future Ocean Alliance (CFOA)
Ocean University of China
Institute of Oceanology, CAS
The First Institute of Oceanography, SOA, China
The Third Institute of Oceanography, SOA, China
Yellow Sea Fisheries Research Institute, CAFS
Marine Biology Institute of Shandong Province, China



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1. WELCOME ADDRESS

Dear Friends and Colleagues,

We are proud to announce that the **International Marine Microbiology Conference (IMMC 2015)** will be held during May 22-25, 2015 in Qingdao, China. On behalf of the organizing committee, I cordially invite you to attend this conference and come ready to discuss the cutting-edge research on all aspects of marine microbiology.

Approximately, 70% of our planet is covered by oceans and seas that provide food and recreation and contribute to economic growth. The oceans are also an important reservoir of biodiversity. Meanwhile, the oceans are key elements for security and have major impacts on climate systems globally. In addition, the oceans present unpredictable risks. Therefore, an understanding of the oceans, including exploitation of natural resources, and protection of the oceans have become key issues, which concern the well-being of people in all countries and affect our common prosperity. Marine microorganisms, as the main executors of various biogenic transformations, have received great attention in recent years. The goal of this conference is to bring together microbiologists to present and discuss cutting-edge research on marine microbiology. The conference will also consider knowledge gaps, and thus focus attention on future research needs.

IMMC 2015 will take the form of keynote speeches, oral presentations and posters. We have finalized them into six themes.

- (1) Marine microorganisms in biogeochemical cycles;**
- (2) Microbial oceanography;**
- (3) Microorganisms in deep sea and polar oceans;**
- (4) Marine microbes in aquaculture;**
- (5) Marine microbes in biotechnology;**
- (6) Intrakingdom and interkingdom signaling - unexplored therapeutic targets**

On behalf of the organizing committee of IMMC 2015, I would like to welcome all the participants to this event. I would also like to offer my appreciation to all the committee members who have put forth enormous efforts in bringing this conference together.

Qingdao is one of the marine science and technology centers. One third of China's marine research institutions and half of the country's high-level marine researchers are located in Qingdao. After the conference you are welcomed to join one of the tour routes to experience the culture and enjoy the seafood and Tsingtao Beer in some of the most famous regions of China.

We look forward to your participation in this influential event in Qingdao.

Sincerely Yours,

Prof. Xiao-Hua ZHANG
Chair of Organizing Committee
Ocean University of China

2. ACADEMIC AND ORGANIZING COMMITTEE

Academic Committee

Chairman: Brian Austin (University of Stirling, UK)

Co-chairman: Patrick Sorgeloos (Gent University, Belgium)

Members (in alphabetical order): Peter Bossier (Gent University, Belgium), Jianguang Fang (Yellow Sea Fisheries Research Institute, CAFS, China), Fumio Inagaki (JAMSTEC, Japan), Darrell Jay Grimes (The University of Southern Mississippi, USA), Chiaki Kato (JAMSTEC, Japan), David L. Kirchman (University of Delaware, USA), Kazuhiro Kogure (The University of Tokyo, Japan), Ka Yin Leung (Trinity Western University, Canada), Jun Li (Lake Superior State University, USA), Hongbin Liu (The Hong Kong University of Science and Technology), Peiyuan Qian (The Hong Kong University of Science and Technology), Zongze Shao (The Third Institute of Oceanography, SOA, China), Patrick Sorgeloos (Gent University, Belgium), Curtis A Suttle (The University of British Columbia, Canada), Jonathan D Todd (University of East Anglia, UK), Fengping Wang (Shanghai Jiao Tong University, China), Xiang Xiao (Shanghai Jiao Tong University, China), Yuzhong Zhang (Shandong University, China), Changsheng Zhang (South China Sea Institute of Oceanology, CAS, China), Chuanlun Zhang (Tongji University, China), Youming Zhang (Shandong University, China)

Organizing Committee

Chairman: Xiao-Hua Zhang (Ocean University of China)

Co-chairmen: Tian Xiao (Institute of Oceanology, CAS); Xiuqin Sun (The First Institute of Oceanography, SOA)

Members (in alphabetical order): Jixiang Chen, Zongjun Du, Juan Feng, Wanli Gou, Zhixun Guo, Juntao Jia, Huirong Li, Jun Li, Qiufen Li, Yun Li, Yan Liang, Zhaolan Mo, Haijin Mu, Lingyun Qu, Xiaochong Shi, Jingchao Wang, Peng Wang, Xianghong Wang, Yan Wang, Long-Fei Wu, Hui Xiao, Di Xu, Hui Yang, Junhong Yu, Min Yu, Yong Yu, Yuan Zhao

3. SCHEDULES AND CONFERENCE VENUE

Conference Venue

The conference will be held in Qingdao Huanghai Hotel (No.75 Yan'an First

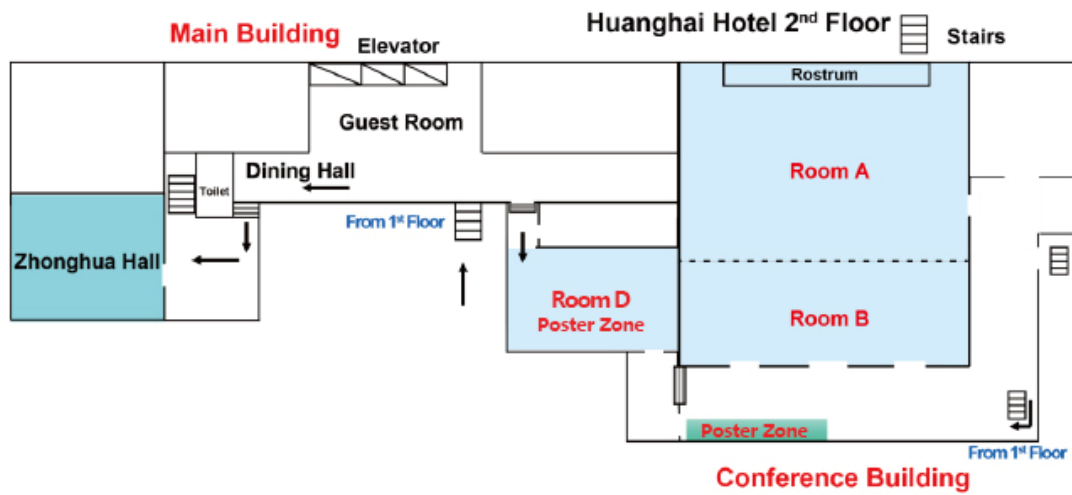
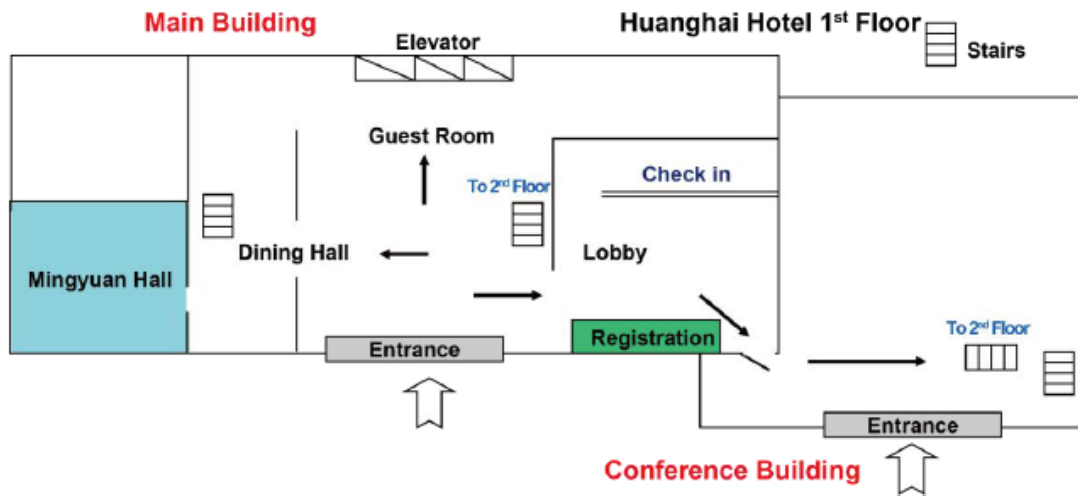
Road, Shinan District, Qingdao 266003, China; Tel: 0086-532-82870215; website: <http://www.huanghaihotel.com/>). Qingdao Huanghai Hotel is one of Shandong Province's excellent hotels and ranked among the ten best establishments in Qingdao. It is a member of both the Tourist Hotel Association of China and the Friendship Hotel Group of China. The Huanghai Hotel boasts an excellent location near picturesque Huiquan Bay. Its main towers provide visitors with breathtaking views of the ocean, islands, trees, and the hills. The scenic First Bathing Beach and Zhongshan Park are nearby, as is the German Governor's Mansion and other attractions, including many fine restaurants.



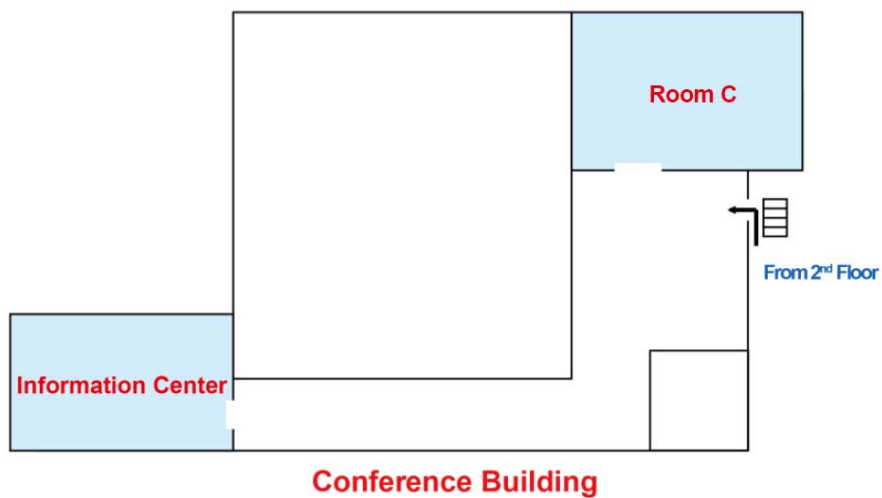
The hotel's facilities include the ballroom, meeting Room and multi-sized function room, offering ideal spaces for multitudinous conference.

The location of Huanghai Hotel & The sketch map of Conference Venue





Huanghai Hotel Conference Building 3rd Floor



Transportation

Arrival by air: Huanghai Hotel - the conference venue is just about 30 km away from Qingdao Liuting Airport. You can take a taxi at the airport, with the price based on the class of taxi ranging from RMB70 to 100 (about USD12~17). Alternatively, you can catch the **airport shuttle bus Line 701**, get off at its terminal station **Huiquan Dynasty Hotel**, and then walk to the conference venue (about 5 min). The price is RMB20.

Arrival by train: The conference venue is just about 3 km away from Qingdao Railway Station. You can, take a bus or a taxi. The price by taxi is about RMB15.

In case you need help, you can call the local organizer or request help from a person nearby. Many Chinese people will be happy to provide such assistance, though language might be a problem. In such case, the following signs/interpretation will be helpful:

Please take me to Huanghai Hotel

请到黄海饭店

ADD: 75 Yan'an Yi Road, Qingdao, China

地址：黄海饭店，延安一路75号

Reception and Registration

The registration desk will be in the lobby of Qingdao Huanghai Hotel, open at 8:30 -20:00 on May 22, and at 7:30 -8:20 am on May 23-25. Full payment must accompany the on-site registration (unless otherwise pre-arranged) if you did not pay before: full participant 400US\$ (RMB 2500), and student or accompanying member 250 US\$ (RMB1400).

4. SCIENTIFIC PROGRAM

Program at a Glance

Friday, 22 MAY	
8:30-20:00	Registration
Saturday, 23 MAY (Morning)	
	Room A

7:30-8:10	Registration	
8:30-9:10	Opening ceremony	
9:10-10:20	Keynote speeches	
10:20-10:50	Group photo/ coffee break	
10:50-12:00	Keynote speeches	
12:00-13:30	Lunch	
Saturday, 23 MAY (Afternoon)		
13:30-17:00	Session 1 Marine microorganisms in biogeochemical cycles (Room B)	Session 6 Intrakingdom and interkingdom signaling - unexplored therapeutic targets (Room C)
17:00-18:00	Poster session	
18:30-20:30	Welcome reception	
Sunday, 24 MAY		
8:30-12:00	Session 2 Microbial oceanography (Room B)	Session 4 Marine microbes in aquaculture (Room C)
12:00-13:30	Lunch	
13:30-17:00	Session 3 Microorganisms in deep sea and polar oceans (Room B)	Session 5 Marine microbes in biotechnology (Room C)
17:00-18:00	Poster session	
18:00-19:00	Dinner	
Monday, 25 MAY (Morning)		
Room B		
8:30-10:30	Keynote speeches	
10:30-10:50	Coffee break	
10:50-12:00	Closing ceremony Including announcement of Oral & Poster Awards, IMMC handover ceremony	
12:00-13:30	Lunch	
Monday, 25 MAY (Afternoon)		
13:30-17:30	Visiting Ocean University of China/ Institute of Oceanology, CAS	

Scientific Program in Detail

Program schedule is subject to changes. The changes, if any, will be shown in the printing copies in your conference package or on the board at the entrance of the conference halls. The convenor will be notified any change of the schedule before the session starts each day. The abstract could be found in your conference package. The official language of the conference will be English. 30-35 minutes for each keynote speech, and 15-20 minutes will be allowed for each oral presentation (all including 5 minutes for questions and discussion). A reminding call would be given three minutes earlier. We totally have 59 oral presentations and 94 posters.

Awards for best oral and poster presentations: the conference will award certificate for the best oral and poster presentations of students and young scientists

(<35 in age). Winners will be announced during the closing session on May 25th.

Oral Programme	
Morning 23 MAY 2015, Room A	
Opening ceremony and plenary speeches	
Chairmen: Brian Austin and Patrick Sorgeloos	
8:30-9:10	<p>Opening ceremony</p> <p>Welcome address from Vice President Huajun Li, Ocean University of China</p> <p>UNESCO's biotechnology program in the post-2015 sustainable development agenda</p> <p>Dr. Ahmed Fahmi (UNESCO Headquarter, United Nations)</p> <p>The legacy of Prof. Huai-Shu Xu: the man, the scientist, and the father</p> <p>Ms. Fujin Xu (CCTV NEWS, China)</p>
9:10-9:45	<p>Keynote: Probing the diversity of viruses in the sea</p> <p>Prof. Curtis Suttle (The University of British Columbia, Canada)</p>
9:45-10:20	<p>Keynote: Novel insights into microbial production of dimethylsulphoniopropionate (DMSP) and dimethylsulphide (DMS)</p> <p>Dr Jonathan D Todd (University of East Anglia, UK)</p>
10:20-10:50	Group Photo/ Coffee Break
10:50-11:25	<p>Keynote: Growth rates of microbes in the oceans</p> <p>Prof. David L. Kirchman (University of Delaware, USA)</p>
11:25-12:00	<p>Keynote: <i>Edwardsiella tarda</i> as a model organism to study fish-pathogen interactions</p> <p>Ka Yin Leung (East China University of Science and Technology, China and Trinity Western University, Canada)</p>
12:00-13:30	Lunch
Afternoon 23 MAY, Room B	
Session 1 – Marine microorganisms in biogeochemical cycles	
Chairmen: David Kirchman and Chuanlun Zhang	
13:30-14:00	<p>Keynote: The reemergence of Marine Group II Archaea as an important player of global ocean carbon cycle</p> <p>Chuanlun Zhang (Tongji University, China)</p>
14:00-14:20	<p>Ecological significance of Mycoplankton in carbon cycling of the world's oceans</p> <p>Prof. Guangyi Wang (Tianjin University, China)</p>
14:20-14:40	<p>Phytoplankton functional types and production of dimethylsulphoniopropionate</p>

	(DMSP) Dr. Gill Malin (University of East Anglia, UK)
14:40-15:00	Studies on microbial community structure in Chinese marginal seas and their biogeochemical implications Dr. Jiwen Liu (Ocean University of China, China)
15:00-15:20	Ureolytic ammonia-oxidizing Thaumarchaeota and extracellular ureases control sediment nitrification and ammonification in a large and eutrophic coastal sea Prof. Hongyue Dang (Xiamen University, China)
15:20-15:40	Coffee break
15:40-16:10	Keynote: Molecular insight into the enzymatic degradation mechanism of POM and DOM in the ocean Prof. Yuzhong Zhang (Shandong University, China)
16:10-16:30	Bacterial quorum sensing and its regulation of particulate organic carbon degradation Prof. Xiao-Hua Zhang (Ocean University of China)
16:30-16:45	Nitrogen fixing bacteria associated with macrophytes in coastal marine ecosystems: niche differentiation and mechanisms Prof. Jun Gong (Yantai Institute of Coastal Zone Research, CAS, China)
16:45-17:00	Genome-wide Regulation of CO ₂ Capture and Storage in Marine Microalgae: from Population to Single-cell Prof. Jian Xu (Qingdao Institute of Bioenergy and Bioprocess Technology, CAS, China)
17:00-18:00	Poster session
Afternoon 23 MAY, Room C Session 6 – Intrakingdom and interkingdom signaling - unexplored therapeutic targets Chairmen: Peter Bossier and Carmel Mothersill	
13:30-14:00	Keynote: Host microbial interactions in cultured aquatic larvae: intra- and interkingdom signaling Prof. Peter Bossier (Gent University, Belgium)
14:00-14:30	Communication of protective signals from fish sub-lethally challenged with <i>Vibrio anguillarum</i> to naïve fish: evidence for a population level survival response? Prof. Carmel Mothersill (McMaster University, Canada)
14:30-15:00	Radiation-induced bystander signals: evidence for a role of secondary UV emission in the generation of oxidative stress and bystander effects by beta

	irradiation of human keratinocytes Prof. Colin Seymour (McMaster University, Canada)
15:00-15:20	Identification of novel quorum quenching bacteria and enzymes Dr. Kaihao Tang (Ocean University of China)
15:20-15:40	Coffee break
15:40-16:10	Keynote: Structure and function of microbial loop in shellfish mariculture system Prof. Jianguang Fang (Yellow Sea Fisheries Research Institute, CAFS, China)
16:10-16:30	The research progress of microbial communication in quorum sensing and the application of quorum sensing in aquaculture Guiju Yang (Dalian University of Technology, China)
16:30-16:45	Characteristics of growth performance, immune response and intestinal microflora of <i>Litopenaeus vannamei</i> fed probiotics <i>Lactobacillus pentosus</i> HC-2 and <i>Enterococcus faecium</i> NRW-2 Yujie Sha (Institute of Oceanology, CAS, China)
16:45-17:00	Using bacteriophages as biological agents to control skin ulcer syndrome in sea cucumber (<i>Apostichopus japonicus</i>) Jiancheng Zhang (Dalian University of Technology, China)
17:00-18:00	Poster session
Morning 24 MAY, Room B Session 2 Microbial oceanography Chairmen: Curtis Suttle and Peiyuan Qian	
8:30-9:00	Keynote: Genomic studies on symbiosis of sponge and associated autotrophic microbes Prof. Peiyuan Qian (The Hong Kong University of Science and Technology)
9:00-9:20	Virioplankton in a changing ocean Prof. Rui Zhang (Xiamen University, China)
9:20-9:40	The responses of microbial community to typical pollution variables in the East China Sea Prof. Demin Zhang (Ningbo University, China)
9:40-10:00	Tintinnid community in the East China Sea: indication to microbial food web structure Prof. Wuchang Zhang (Institute of Oceanology, CAS, China)
10:00-10:20	Coffee break
10:20-10:50	Keynote: Differential geographic distribution of <i>Synechococcus</i> assemblages in western Pacific Ocean and its marginal seas Prof. Hongbin Liu (Hong Kong University of Science and Technology)
10:50-11:10	Molecular ecological networks revealing responses of bacterial communities to different hydrocarbon pollutions Dr. Hui Wang (Yantai Institute of Coastal Zone Research, CAS, China)
11:00-11:20	Complex flagellin composition and exquisite architecture of flagellar propeller from marine magnetotactic ovoid strain MO-1

	Dr. Weijia Zhang (Sanya Institute of Deep-sea Science and Engineering, CAS, China)
11:20-11:40	Viable but nonculturable state of <i>Vibrio harveyi</i> and its resuscitation Jixiang Chen (Lanzhou University of Technology, China)
11:40-12:00	VBNC bacteria and the main microbial communities in the water supply system Xiaolin Ma (Shanghai Jiao Tong University, China)
12:00-13:30	Lunch
Morning 24 MAY, Room C	
Session 4 Marine microbes in aquaculture	
Chairmen: Patrick Sorgeloos and Ka Yin Leung	
8:30-9:00	Functional metabolomics approach for antibiotic-resistant <i>Edwardsiella tarda</i> Prof. Xuanxian Peng (Zhongshan University, China)
9:00-9:20	Promising nitrogen removal microorganisms–heterotrophic nitrification-aerobic denitrification bacteria Prof. Qiufen Li (Yellow Sea Fisheries Research Institute, CAFS, China)
9:20-9:40	Response of marine aquaculture microbial community to common nanomaterials Zhaoshou Wang (Xiamen University, China)
9:40-10:00	Genome-wide identification of functional effectors in <i>Edwardsiella tarda</i> and a T6SS effector EvpP promotes virulence by inhibiting NLRP3 inflammasome Qin Liu (East China University of Science and Technology, China)
10:00-10:20	Coffee break
10:20-10:50	Keynote: A microbial perspective on Acute Hepatopancreatic Necrosis Disease (AHPND) outbreaks in shrimp farming Patrick Sorgeloos (Ghent University, Belgium)
10:50-11:20	Entry of a novel marine DNA virus of Singapore grouper iridovirus (SGIV) into host cells by endocytosis Prof. Qiwei Qin (South China Sea Institute of Oceanology, CAS, China)
11:20-11:40	ATP synthesis is active on the cell surface of the shrimp <i>Litopenaeus vannamei</i> and is suppressed by WSSV infection Dr. Yan Liang (Yellow Sea Fisheries Research Institute, CAFS, China)
11:40-12:00	Multilocus Sequence Analysis of <i>Vibrio harveyi</i> Strains Isolated from Maricultured Fishes in South China Sea Prof. Juan Feng (South China Sea Fisheries Research Institute, CAFS, China)
12:00-13:30	Lunch
Afternoon 24 MAY, Room B	
Session 3 – Microorganisms in deep sea and polar oceans	
Chairmen: Fumio Inagaki and Xiang Xiao	
13:30-14:00	Keynote: Limits and habitability of microbial life in the deep seafloor biosphere Prof. Fumio Inagaki (JAMSTEC, Japan)
14:00-14:30	Keynote: Microbial diversity of the piezophilic microorganisms and the pressure

	adaptation mechanisms of the deep-sea enzymes Prof. Chiaki Kato (Japan Agency for Marine-Earth Science and Technology, Japan)
14:30-15:00	Keynote: Novel insights into marine oil-degrading microbes from deep sea to metabolism network Prof. Zongze Shao (Third Institute of Oceanography, SOA, China)
15:00-15:20	Investigation of microbial communities in deep-sea polymetallic nodules from the Pacific Ocean and Indian Ocean Peng Zhou (Second Institute of Oceanography, SOA, China)
15:20-15:40	Coffee break
15:40-16:10	Keynote: Towards the understanding of high pressure adaption strategy Prof. Xiang Xiao (Shanghai Jiao Tong University, China)
16:10-16:40	Keynote: Understanding the geochemical roles of Bathyarchaeota in marine sediments Prof. Fengping Wang (Shanghai Jiao Tong University, China)
16:40-17:00	How to adapt pH fluctuation at deep sea hydrothermal vent: ITRAQ-based Quantitative Proteomic and Genomic Analyses of a Hyperthermophilic Archaeon Weishu Zhao (Shanghai Jiao Tong University, China)
17:00-18:00	Poster session
Afternoon 24 MAY, Room C Session 5 – Marine microbes in biotechnology Chairmen: Changsheng Zhang and Youming Zhang	
13:30-14:00	Keynote: Natural product discovery and biosynthesis from marine actinomycetes: opportunities and challenges Prof. Changsheng Zhang (South China Sea Institute of Oceanology, CAS, China)
14:00-14:20	More than expected—secondary metabolites biosynthesis in marine-derived <i>Bacillus</i> Prof. Wenli Li (Ocean University of China)
14:20-14:40	Characterization and Application of Seaweed Polysaccharide-Degrading Enzymes from Marine Bacteria Prof. Haijin Mu (Ocean University of China)
14:40-15:00	Physically and genetically engineered morphology for bioactive compound production by marine filamentous fungus Dr. Menghao Cai (East China University of Science and Technology, China)
15:00-15:20	Characterization of bacterioruberin from a halophilic archaea <i>Halorubrum</i> and its

	anti-oxidative and antitumor activity Liyang Sui (Tianjin University of Science & Technology, China)
15:20-15:40	Coffee break
15:40-16:10	Keynote: Application of Red/ET DNA recombineering technology in marine microorganisms Prof. Youming Zhang (Shandong University, China)
16:10-16:30	1,3-Propanediol fermentation by marine <i>Klebsiella pneumoniae</i> Dr. Sheng Zhou (South China Sea Institute of Oceanology, CAS, China)
16:30-16:50	Bio-mining the actinobacterial treasures of the Arctic Ocean: diversity and genetic resources Dr. Li Liao (Polar Research Institute of China)
16:50-17:00	Discussion
17:00-18:00	Poster session
Morning 25 MAY 2015, Room B	
Closing ceremony and plenary speeches Chairmen: Brian Austin and Kazuhiro Kogure	
8:30-9:00	Keynote: Issues regarding the culturing of marine bacteria Prof. Brian Austin (University of Stirling, UK)
9:00-9:30	Keynote: Rhodopsins: new types of light energy acquiring system among marine bacteria Prof. Kazuhiro Kogure (The University of Tokyo, Japan)
9:30-10:00	Keynote: Microbial Disease in Marine Aquaculture Prof. Darrell Jay Grimes (The University of Southern Mississippi, USA)
10:00-10:30	Keynote: Phagocytic B cells at the crossroads of innate and adaptive immunity Prof. Jun Li (Lake Superior State University, USA)
10:30-10:50	Coffee break
10:50-12:00	Closing ceremony Summary of the conference Announcement of Oral & Poster Awards IMMC handover
12:00-13:30	Lunch
Afternoon 25 MAY	
13:30-17:30	Visiting Ocean University of China/ Institute of Oceanology, CAS

Posters

P1-01	Transparent exopolymer particle (TEP) production and aggregation by a marine planktonic diatom (<i>thalassiosira weissflogii</i>) at different growth rates Jie Chen and Daniel C.O. Thornton (South China Sea Marine Engineering and Environment Institute, China)
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P1-02	Microbial diversity patterns of the deep-sea hydrothermal vent chimneys at 9°N East Pacific Rise Jian Ding, Xiang Xiao (Shanghai Jiao Tong University, China)
P1-03	Microbial diversity and community structure in the East China Sea by 454 pyrosequencing of the 16S rRNA gene Yi Dong, Wuchang Zhang, Feng Zhou, Chenggang Liu, Zhuoyi Zhu, Sumei Liu, Tian Xiao (Institute of Oceanology, CAS, China)
P1-04	Environmental Factors Affect the Community Structure and Distribution of Ammonia-oxidizing Archaea and Bacteria in the Sediments of the Yellow River Estuary, China Ming-cong Li, Guang-shan Wei, Zheng Gao (Shandong Agricultural University, China)
P1-05	Diversity and distribution of nitrite-dependent anaerobic methane-oxidizing bacteria in sediments from the Yellow River Estuary, China Peng-ze Yan, Ming-cong Li, Guang-shan Wei, Zheng Gao (Shandong Agricultural University, China)
P1-06	Diversity of ammonia-oxidizing archaea in coastal seawaters of Fildes Peninsula, King George Island, Antarctica Huirong Li, Wei Luo, Yong Yu, Yinxin Zeng (Polar Research Institute of China)
P1-07	The spatiotemporal distribution of denitrifying functional genes in intertidal zone sediments of Shenzhen Bay Shaoan Liao, yang Dong, Shengpeng Zhang and Anli Wang (South China Normal University, China)
P1-08	Isolation of oil-degrading bacteria from the rhizosphere of Suaeda Heteroptera Kitag in wetland of Liaodong Bay Zi-Chao Yu, Zuo-Yang Li, Rui Tian, Bin Wang (Dalian Ocean University, China)
P1-09	Effect of pH on neutral lipid accumulation in <i>Phaeodactylum tricornerutum</i> Huiying Zhang, Daoyi Chen (Tsinghua University, China)
P1-10	Influence of the Yellow Sea Cold Water Mass on picoplankton distribution in the northern Yellow Sea Li Zhao, Yuan Zhao, Tian Xiao (Institute of Oceanology, CAS, China)
P1-11	Variations of picoplankton abundances during blooms in the East China Sea Yuan Zhao, Li Zhao, Wuchang Zhang, Jun Sun, Lingfeng Huang, Jia Li, Hongchang Zhai, Sumei Liu, Tian Xiao (Institute of Oceanology, CAS, China)
P1-12	Biodiversity and degradation potential of oil-degrading bacteria isolated from the deep-sea sediments of South Mid-Atlantic Ridge Xiangxing Gao, Wei Gao, Zhisong Cui, Bin Han, Peihua Yang, Chengjun Sun, Li Zheng (The First Institute of Oceanography, SOA, China)
P1-13	Preliminary metagenomic analysis of hydrothermal vent sediment from the southern Okinawa Trough Min Yu, Na Liu, Yan Liu, Long Wang, Xiao-Hua Zhang (Ocean University of China)
P1-14	Spatial distribution pattern of bacterial communities in mud deposits of the eastern China seas Yanlu Qiao, Jiwen Liu, Xiao-Hua Zhang (Ocean University of China)

P1-15	The bacterial community in the sediment of Clarion-Clipperton Fracture Zone (CCFZ) and the potential correlation with the formation of polymetallic nodules Long Wang, Xiaolei Wang, Jiwen liu, Xiao-Hua Zhang (Ocean University of China)
P1-16	Genomic analysis of strain DY65 from <i>Rhodobacteraceae</i> reveals its potential manganese oxidase and adaption to polymetallic nodule of the CCFZ Xiaolei Wang, Min Yu, Jiwen Liu, Zenghu Zhang, Long Wang, Yan Liu, Xiao-Hua Zhang (Ocean University of China)
P1-17	Studies on bacterial quorum sensing in particulate organic carbon and its regulation of organic carbon degradation in Chinese marginal sea Ying Su, Yanfen Zheng, Yan Liu, Xiao-Hua Zhang (Ocean University of China)
P1-18	Dimethylsulphoniopropionate catabolism by bacteria isolated from the East China Sea Ji Liu, Sheng-Hui Zhang, Jingli Liu, Hong-Hai Zhang, Jonathan D. Todd, Gui-Peng Yang and Xiao-Hua Zhang (Ocean University of China)
P1-19	Genome sequence of a dimethylsulphoniopropionate lysis bacterium <i>Oceanicola litereus</i> LZD026 Jingli Liu, Ji Liu, Min Yu, Xiao-Hua Zhang (Ocean University of China)
P1-20	Expression of <i>N</i> -Acylhomoserine Lactone Acylase from <i>Pseudoalteromonas flavipulchra</i> JG1 and Its Quorum Quenching Activities Na Liu, Min Yu, Yilin Xiao, Jiajun Li, Xiao-Hua Zhang (Ocean University of China)
P1-21	The significance of manganese in biogeochemical cycles and the identification of manganese-oxidizing bacteria Jingguang Cheng, Ke An, Xiaochong Shi, Xiao-Hua Zhang (Ocean University of China)
P1-22	Community composition and distribution of sulfate- and sulfite-reducing prokaryotes in sediments from the Changjiang Estuary and its adjacent area in the East China Sea Hui He, Tiezhu Mi, Yu Zhen, Yu Zhang (Ocean University of China)
P1-23	Seasonal and spatial distribution of ammonia-oxidizing microorganism communities in surface sediments from the East China Sea Hui He, Yu Zhen, Tiezhu Mi (Ocean University of China)
P1-24	Marine corrosive microorganisms: Sulfate-reducing bacteria or others, who is responsible for the accelerated corrosion of steel structures in immersed seawater environment? Jizhou Duan, Hui Xiao, Haixia Liu, Xiaohong Li, Yongqian Li, Zheng Xin, Xiaofan Zhai, Xuexi Tang, Baorong Hou (Institute of Oceanology, CAS, China)
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P2-02	Chitinolytic <i>Vibrio spp.</i> strains isolated from the Japanese Spider Crab <i>Machrocheira kaempferi</i> and other related diseases Shaleen Bikka (South African Association for Marine Biological Research, South Africa)
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P2-05	Prevalence, abundance and diversity of antibiotic resistance genes in coastal zone of Sishili Bay, northern Yellow Sea of China Lin-lin Chen (The Yantai Institute of Coastal Zone Research, CAS, China)
P2-06	Seasonal and spatial variation of the pelagic microbial food web structure in Sanggou Bay, Yellow Sea Wuchang Zhang, Xue Chen, Michel Denis, Yuan Zhao, Lingfeng Huang, Tian Xiao (Institute of Oceanology, CAS, China)
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The Huai-Shu Xu Award Fund

To encourage younger scientists, up to the age of 35, to actively participate in the conference, a number of awards for “excellence of presentation” and “excellence of posters” will be funded to honour outstanding work presented during the conference. The awards will be provided by “The Huai-Shu Xu Award Fund”.

Professor Huai-Shu Xu (July 7, 1936 to June 14, 2001): Born in July 7, 1936 in Hebei Province and moved to Beijing with his family when he was one year old. X.-H. Xu graduated from Nankai University in 1960 and developed an early interest in microbiology. He spent his early years in Beijing and Tianjin, moving to Qingdao in 1960 after graduation. He was promoted to full professor in 1990. Professor Xu was one of the first Chinese scientists to visit USA after the Cultural Revolution. During this visit at the University of Maryland during July 1980 to November 1982, he participated in marine microbiological research, and was instrumental in recognising the viable but nonculturable (VBNC) state of *Vibrio cholerae* in the aquatic environment. This work resulted in a landmark publication co-authored with Professor Rita Colwell. The proposal for a viable form of a serious pathogen that could not be cultured in the laboratory was a revolutionary concept for its time, and the work polarised scientific opinion, which was then immersed in the dogma that culturability was akin to viability. Back in China, Professor Xu became the dominant force in Chinese marine microbiology, and was instrumental at fostering international relationships across Asia, North and South America, Australasia and Europe. He led the establishment in Qingdao of the “UNESCO Marine Biotechnology Centre”, and participated in many international research projects, enjoying an international reputation in marine microbiology, marine biotechnology, and aquatic pathobiology. Throughout his career, Professor Xu supported the careers of young up and coming scientists, and it is fitting that the Professor Xu Award recognises excellence in science during the initial part of a career. These awards are regarded as a fitting tribute to the memory of a great scientist.



5. MEALS AND ACCOMMODATION

Meals

Welcome Reception: It is a free event. All the registered participants are welcome to the reception. Time: 23 May 2015, 19:00-21:00. Site: Zhonghua Hall, Huanghai Hotel.

Meals for Breakfast: Served by either Qingdao Huanghai Hotel or Qingdao Huiyuan Hotel for delegates who live there.

Meals for Lunch: Free for all the registered participants during 23-25 May 2015. Site: Mingyuan Hall, Huanghai Hotel.

Meals for dinner: Free for all the registered participants on 22 and 24 May, 2015. Site: Mingyuan Hall, Huanghai Hotel.

Accommodation

Two hotels are arranged for participants. The hotels will provide a preferential price for the participants of the Symposium. No deposit is needed for reserving the room, but First Come will be First Served.

Qingdao Huanghai Hotel (four star; within the conference venue), RMB 418 (~ 65 USD) per night for a standard double-bed room;

Qingdao Huiyuan Hotel (three star; 3 min walk to the conference venue), RMB 300 (~ 50 USD) per night for a standard double-bed room.

6. GENERAL INFORMATION

Weather

The air temperature during the conference period varies roughly from about 18°C to 25°C. However, precise temperature information should be obtained from weather forecast by then.

Internet

Wireless Internet access will be available at the conference center.

Time Zone

GMT/UTC plus 8 hours

Electricity

The voltage in China is 220V. Socket and plug used are mainly as shown below.



Water

Tap water is not suitable for direct drinking. Visitors are advised to drink boiled tap water, bottled purified water or mineral water. Complimentary bottled water may be offered in some hotels.

Insurance

The conference organizers cannot be held responsible for any accident of injury or loss or damage of property that may happen to the participants in the conference and field excursions. Please make your own insurance arrangements.

Useful Telephone numbers

Telephone, country code: +86; Qingdao code: 532 (call to Qingdao from other areas in China: 0532+ local number)

Police: 110

Fire Department: 119

Ambulance: 120

Local directory assistance: 114

Currency and Banking

Foreign currencies in cash or traveler's checks can be charged into Chinese Yuan (CNY, RMB) at the airport, local banks and hotel. Refer to Bank of China for exchange rate: <http://www.boc.cn/sourcedb/whpj/enindex.html>. Banks usually open at 9:00 am and close at 5:00 pm during the weekday and open from 9:00 am to 4:00 pm at the weekend. Credit cards such as American Express, Diners Clubs, JCB, Master Card and Visa may be used for payments at hotels and tourist stores.

Important: The IMMC 2015 organizer kindly suggests that you bear some cash in Chinese Yuan (CNY, RMB) as pocket money for payment to taxi, airport shuttle bus, etc. in Qingdao. Foreign currencies in cash or traveler's checks can be changed into Chinese Yuan (RMB) at the Qingdao Airport. Automatic Teller Machines (ATM) are located at convenient points throughout the airports. You may ask Airports'

Information Desks for help.

Shopping

Qingdao, China's most livable city, is in Shandong province, Eastern China, along the Yellow Sea. As a major seaport, and naval base, it also serves as a flagship city for China's marine-related research, due to the fact that Ocean University of China (OUC), China's most renowned and dynamic university in marine research and education, locates here. In addition, several other important marine-related research institutes, including Institute of Oceanology (Chinese Academy of Sciences), Yellow Sea Fisheries Research Institute (Chinese Academy of Fishery Sciences), and The First Institute of Oceanography (State Oceanic Administration) also locate in Qingdao. Several shopping Centers nearby are marked in the downtown map.

Show this to a TAXI driver to tell your destination:

I'd like to go to Huanghai Hotel.

我想去黄海饭店。

Address: NO. 75 Yan'an 1 Road, Qingdao

地址：青岛市市南区延安一路75号，靠近汇泉广场。

I'd like to go to Qingdao Liuting Airport.

我想去青岛流亭机场。

I'd like to Railway Station.

我想去青岛火车站。靠近海边。

I'd like to Mykal Shopping Mall.

我想去麦凯乐。

I'd like to Carrefour Super Market.

我想去家乐福超市。靠近市政府。

I'd like to Hisense Plaza.

我想去海信广场，在东海西路50号。

I'd like to Sunshine Department Store for Shopping.

我想去阳光百货，香港中路上的。



Downtown Map of Qingdao

7. INDEX OF PARTICIPANTS

Officials (2)

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Yang Du	UNESCO Beijing Office, China	y.du@unesco.org

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