

# Program Schedule



3<sup>rd</sup> I&SM 2018

**Day 1: Thu. 25<sup>th</sup>, Oct. 2018**  
registration, SECEC Lobby, 1F

**On-site**

**18:00-20:00 Dinner**  
Guangming Hall, 2F

**Day 2: Fri. 26<sup>th</sup>, Oct. 2018**  
10<sup>th</sup> Meeting Room, 2F

8:30-9:00 **Welcome/Opening remarks**  
Zixin Deng, Academician of the Chinese academy of sciences, Shanghai Jiao Tong University, China

**1<sup>st</sup> Session: Sponge microbiome and sponge-microbes symbiosis**

Chair Prof. Zhiyong Li

9:00-9:40 Plenary lecture  
Torsten Thomas, University of New South Wales, Australia  
Discovering novel functionality on the microbe-sponge symbiosis

9:40-10:10 Keynote lecture  
Wei Zhang, Flinders University, Australia  
Untapped sponge microbiome: dark matters and blind spots

**10:10-10:40 Group photo and Coffee break**

**2<sup>nd</sup> Session: Sponge microbiome and sponge-microbes symbiosis**

Chair Prof. Russell Hill

10:40-11:10 Keynote lecture  
Max Haggblom, State University of New Jersey, USA  
Organohalogen-respiring bacterial symbionts of marine sponges

11:10-11:30 Lecture  
Liisi Karlep, Tallinn Univ. of Technology, Estonia  
Contribution of basic purine metabolism to functional aspects of sponge-microbial symbiotic relationship: consistent absence of the enzymes specific to the purine de novo biosynthesis pathway among Porifera

11:30-11:50 Lecture

Qi Yang, Shanghai JiaoTong University, China; Flinders University, Australia

New insight of sponge microbiomes: structure specificity at host order and family levels

**12:00-13:30 Lunch**

**Guangming Hall, 2F**

**3<sup>rd</sup> Session: Sponge microbiome and sponge-microbes symbiosis**

Chair Prof. Torsten Thomas

13:30-14:10 Plenary lecture

Russell Hill, University of Maryland, USA

Sponge symbionts and phosphorus cycling in coral reefs

14:10-14:30 Lecture

Jing Zhao, Xiamen University, China

Promoting effect of Bacteroidetes on larval settlement of *Tedania* sp.

14:30-14:50 Lecture

Shani Shoham, Tel Aviv University, Israel

Sponge-associated bacteria use intracellular vesicles to transport arsenic

14:50-15:10 Lecture

Davide Poli, University of Queensland, Australia

Daily and seasonal fluctuations in the physiology of a marine sponge holobiont

**15:10-15:40 Coffee break and poster discussion**

**4<sup>th</sup> Session: Sponge microbiome and sponge-microbes symbiosis**

Chair Prof. Wei Zhang and Prof. Max Haggblom

15:40-16:00 Lecture

Nguyen Viet Hung, University of New South Wales, Australia

Mass characterization of novel gammaproteobacterial taxa from sponge samples

16:00-16:20 Lecture

Guangjun Chai, Shanghai Jiao Tong University, China

Climate change stressors destabilize the microbiome of the sponge *Spherospongia* sp. from South China Sea

**Speed talks**

16:20-16:30

Shufei Wu, Xiamen University, Xiamen, China  
Polyphosphate accumulation of sponges and microbial symbionts

16:30-16:40

Jessica Taylor, University of New South Wales, Australia  
Phylogeny resolved, metabolism revealed: the tale of uncultured sponge-associated relatives of the betaproteobacteria

16:40-16:50

Mohammad F. Mehbub, Hajee Mohammad Danesh Science and Technology University, Bangladesh  
Development and validation of a novel approach for delineating the role of sponge-bacteria interactions: *Aplysilla rosea* as a model sponge

16:50-17:00

Xueyan Xiang, University of Queensland, Australia  
Comparison of RNA-Seq by Poly (A) capture and ribosomal RNA depletion for sponge holobiont transcriptome

17:00-17:10

Philip Nemoy, University of Haifa, Israel  
Processing of dissolved inorganic nitrogen and oxygen consumption by the sponge *Chondrosia reniformis* under elevated levels of ammonium in seawater

17:10-17:20

Kun Zhou, Shenzhen University, China  
Potential sponge-SUP05-phage interaction in hydrothermal vent

17:20-17:30

Tabea Hildebrand, Helmholtz Institute for Functional Marine Biodiversity, Germany  
Uptake and conversion of DOM by the sponge holobiont

17:30-17:40

Jing Li, Ocean University of China  
*Roseobacterium spongiicolagen.nov.*, sp. nov., an actinobacterium isolated from an Antarctic marine sponge

17:40-17:50

Leyre Garate, Wageningen University, Netherlands  
Calcifying bacteria in sponges belong to different classes of Proteobacteria

**18:00-20:00 Dinner**

**Guangming Hall, 2F**

**Day 3: Sat. 27<sup>th</sup>, Oct. 2018**

**10<sup>th</sup> Meeting Room, 2F**

**5<sup>th</sup> Session: Sponge microbial natural products and biosynthesis**

Chair Prof. Yingxia Li

8:30-9:10 Plenary lecture

Jörn Piel, Swiss Federal Institute of Technology in Zurich (ETH Zurich), Swiss

Metabolic feats from sponge symbionts

9:10-9:40 Keynote lecture

Wenhan Lin, Peking University, China

Antiviral baculiferins from marine sponge *Iotrochota baculifera*

9:40-10:10 Keynote lecture

Peter Schupp, Carl-von-Ossietzky University Oldenburg, Germany

Exploration of deep-water sponges yields new sponge species, novel microbiomes and potentially new bioactive compounds

**10:10-10:40 Coffee break and poster discussion**

**6<sup>th</sup> Session: Sponge microbial natural products and biosynthesis**

Chair Prof. Jörn Piel

10:40-11:10 Keynote lecture

Guoqiang Li, Ocean University of China

New sources producing bioactive compounds: sponge associated microorganisms

11:10-11:40 keynote lecture

Yongjun Zhou, Shanghai Jiao Tong University, China

Discovery and characterization of a new family of peptide cyclase in non-ribosomal peptide biosynthetic pathway in sponge symbiotic actinomyces

**12:00-13:30 Lunch**

**Guangming Hall, 2F**

**7<sup>th</sup> Session: Sponge microbial natural products and biosynthesis**

Chair Prof. Peter Schupp

13:30-14:00 Keynote lecture

Yonghong Liu, the South China Sea Institute of Oceanology (SCSIO), China

Marine sponge-associated microorganisms metabolites and their Bioactivities

14:00-14:30 Keynote lecture

Georg Steinert, Carl-von-Ossietzky University Oldenburg, Germany

Are 16S rRNA gene profiles of demosponge-associated bacteria a viable marker for bioactivity?

14:30-14:50 Lecture

Agustinus R. Uria, Hokkaido University, Japan

Investigating spongistatin biosynthesis in complex sponge-bacteria association

14:50-15:10 Lecture

Fengli Zhang, Shanghai Jiao Tong University, China

Precursor directed biosynthesis of secondary metabolites from marine sponge-associated microorganisms

**15:10-16:00 Coffee break and poster prize selection**

### **8<sup>th</sup> Session: Sponge microbial natural products and biosynthesis**

Chair Prof. Micha Ilan

16:00-16:20 Lecture

Yingxin Li, Shanghai Jiao Tong University, China

Novel natural products isolated by multi-strategies from microbes derived from the South China Sea

16:20-16:40 Lecture

Jabal Rahmat Haedar, Hokkaido University, Japan

Structure elucidation of Theonellapeptolide IV, V and VI from marine sponge *Theonellaswinhoei*

### **Speed Talks**

16:40-16:50

Matthew Koch, University of Plymouth, UK

Antimicrobial potential of the deep-sea sponge microbiome

16:50-17:00

Shivakumar P. Banakar, Shanghai Jiao Tong University, China

Co-culture induced production and insilico study of Fumiquinazoline-J, which mitigates the *Mycobacterium tuberculosis* PknG kinase and MurC ligase

17:00-17:10

Daniela Tizabi, University of Maryland, USA

Bioprospecting novel marine actinomycetes for anti-tubercular compounds

17:10-17:20

Yi-Feng Dai, National Sun Yat-sen University and Academia Sinica

Production of indole-3-acetic-acid (IAA) by the marine sponge-associated fungi isolated from

the demosponge *Suberites diversicolor* Becking & Lim, 2009 in Linyuan, Kaohsiung, Taiwan

17:20-17:30

Xiaolong Huang, Hainan University, China

Diversity of culture-independent actinomycetes associated with marine sponges in the Hainan island

17:30-17:40

Wei Zhao, Fujian Institute of Microbiology, Fuzhou 350007, China

Diversity of culturable actinomycetes isolated from marine sponge

**9<sup>th</sup> Session: Closing remarks**

Chair Prof. Zhiyong Li and Prof. Max Haggblom

17:40-18:00

Acknowledgements and Poster prize from FEMS Microbial Ecology

**18:30-20:30 Dinner party**

**Shunfeng Hotel, 1F**

**Day 4: Sun. 28<sup>th</sup>, Oct. 2018**

Committee meeting

**Day 5: Mon.29<sup>th</sup>, Oct.2018**

Departure