



Program Schedule

Day 1: Thu. 25th, Oct. 2018

On-site registration

18:00-20:00 Dinner

Day 2: Fri. 26th, Oct. 2018

8:30-9:00 **Welcome/Opening remarks**

Zixin Deng, Academician of the Chinese academy of sciences, Shanghai Jiao Tong University, China

1st 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

2nd 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

3rd 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

4th 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 *Sphaciospongia* 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. Mehubub, Hajee Mohammad Danesh Science and Technology University, Bangladesh

Develop and validation of a novel approach for delineating the role of sponge-bacteria interactions: *Aplysillaroseas* 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

Leire Garate, Wageningen University, Netherlands

Calcifying bacteria in sponges belong to different classes of Proteobacteria

18:00-20:00 Dinner

Day 3: Sat. 27th, Oct. 2018

5th Session: Sponge microbial natural products and biosynthesis

Chair Prof. Yinxia 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

6th 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

7th 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

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

8th Session: Sponge microbial natural products and biosynthesis

Chair Prof. Micha Ilan and Prof. Guoqiang Li

15:40-16:00 Lecture

Yingxin Li, Shanghai Jiao Tong University, China

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

16:00-16:20 Lecture

Jabal Rahmat Haedar, Hokkaido University, Japan

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

Speed Talks

16:20-16:30

Matthew Koch, University of Plymouth, UK

Antimicrobial potential of the deep-sea sponge microbiome

16:30-16:40

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

16:40-16:50

Daniela Tizabi, University of Maryland, USA

Bioprospecting novel marine actinomycetes for anti-tubercular compounds

16:50-17:00

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

17:00-17:10

Xiaolong Huang, Hainan University, China

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

17:10-17:20

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

Diversity of culturable actinomycetes isolated from marine sponge

9th Session: Closing remarks

Chair Prof. Zhiyong Li and Prof. Max Haggblom

17:20-17:40

Acknowledgements and Poster prize from FEMS Microbial Ecology

18:00-20:00 Dinner party

Day 4:

Sun. 28th, Oct. 2018

Committee meeting

Day 5:

Mon.29th, Oct.2018

Departure

Acknowledges

State Key Laboratory of Microbial Metabolism (SKLMM), China

<http://skmml.sjtu.edu.cn/en/>



微生物代谢国家重点实验室
State Key Laboratory of Microbial Metabolism



FEMS Microbiology Ecology: Special Issue 'Sponge microbiome'

https://academic.oup.com/femsec/pages/sponge_microbiome_vsi

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