

# 关于召开第五届伯杰氏国际系统微生物学研讨会的通知 (第三轮)

各位专家学者:

为促进学术交流,共商学术发展,第五届伯杰氏国际系统微生物学研讨会定于2023年11月6日-9日在广东广州举办,会议主题为“大数据时代微生物系统学的机遇和挑战”,诚邀各位专家学者参加。会议具体安排如下:

## 一、本次会议主题

- 1.培养先前未培养的微生物;
- 2.微生物系统学的变化;
- 3.如何命名未培养的原核生物;
- 4.物种内和物种间的多样性和物种形成;
- 5.微生物系统学及其对生物技术研究的影响;
- 6.如何弥合微生物系统学和更大的微生物科研群体之间的认知差距。

## 二、会议日程(详见附页 PROGRAM)

2023年11月6日报到并入住酒店,青年学者论坛和研究生论坛

2023年11月7日-11月8日,正式会议

2023年11月9日离会

## 三、会议地点

广州白云国际会议中心

## 四、会议酒店

- 1、广州白云国际会议中心酒店

地址:广州市白云区白云大道南1039-1045号

- 2、广州逸林假日酒店

地址:广州市白云区白云大道北2号

- 3、其他酒店(由广州兰华商务服务公司现场代订)

## 五、会议注册费标准

缴费日期 参会人员类别	第一阶段早鸟价 6.15-8.15	第二阶段早鸟价 8.16-10.5	10.6-11.6 及 会议现场注册
非 BISMis 会员	2100 元/人	2800 元/人	3500 元/人
BISMis 会员	1800 元/人	2100 元/人	3100 元/人
非 BISMis 学生会员	1800 元/人	2100 元/人	2800 元/人
BISMis 学生会员	1500 元/人	1800 元/人	2500 元/人

注册费缴交说明:

1、早鸟优惠：越早报名享受越多优惠。

2、会议注册费用标准以实际缴费时间确定（非注册时间），如需享受早鸟优惠，请在优惠价时段内缴费。

3、会议注册费缴费方式（需登陆账号）

a:线上支付，可选择微信支付或支付宝支付（建议使用线上支付）

b:线下转账汇款，汇款后需要在会议网站用户中心上传汇款水单（请务必附言：单位+姓名+会议注册）

转账汇款收款账号信息如下：

开户名：广州兰华商务服务有限公司

账号：4405 0140 0205 0000 0030

开户行：建设银行广州署前路支行

4、注册过程中有任何疑问，请联系会务咨询解决。会务咨询邮箱：  
guangzhou@bismis2023.com

5、本次会议的差旅和住宿费用自理。会议形式、时间和地点如有变动，将以后续通知为准。

## 六、广州白云国际机场-白云国际会议中心大巴接时间安排表

日期	行程	发车时间			
		11:00	12:00	13:00	14:00
11月6日	广州白云国际机场-白云国际会议中心	15:00	16:00	17:00	18:00
		19:00	20:00	21:00	22:00
11月8日	白云国际会议中心-广州白云国际机场	19:00	20:00		
11月9日	白云国际会议中心-广州白云国际机场	09:00	14:00		

## 七、会议联系人

李文均教授 手机: 13926435118

Mukhtiar Ali 手机: 15001242913

焦建宇 手机: 15622258459

刘健 手机: 13710331231

联系邮箱: [guangzhou@bismis2023.com](mailto:guangzhou@bismis2023.com)



中山大学生命科学学院  
广州兰华商务服务有限公司

2023年10月30日



# PROGRAM

The Fifth Meeting of Bergey's International Society for Microbial Systematics (BISMIS)

**NOVEMBER 6<sup>th</sup> (Mon), 2023****DAY 1****REGISTRATION & BERGEY'S MANUAL TRUST MEETING**

---

10:00~23:00	Registration	HALL 3
10:00~17:30	Bergey's Manual Trust Meeting	Closed-Door Meeting
18:00~20:00	Dinner	F Pearl River Hall

**FORUM**

---

19:00~20:20	Young Scholar Forum	C Pearl River Hall
20:20~20:30	Coffee Break	C Pearl River Hall
20:30~21:50	Graduate Student Forum	C Pearl River Hall

NOVEMBER 7<sup>th</sup> (Tue), 2023

DAY 2

## OPENING CEREMONY

08:00~08:15	<b>Welcome Speech</b>	<b>C Pearl River Hall</b>
08:00 - 08:05	Welcome Speech 1 <b>Ping Lan</b> ( <i>Vice president of Sun Yat-Sen University</i> )	Chair: Wen-Jun Li
08:05 - 08:10	Welcome Speech 2 <b>Wei Qian</b> ( <i>Director-General of Chinese Society for Microbiology</i> )	Chair: Wen-Jun Li
08:10 - 08:15	Welcome Speech 3 <b>Kamlesh Jangid</b> ( <i>President of BISMIS</i> )	Chair: Wen-Jun Li

## PLENARY LECTURES

08:15~09:45	<b>Plenary Lectures</b>	<b>C Pearl River Hall</b>
08:15 - 08:45	Plenary Lecture 1 Reverse microbial etiolog <b>Jianguo Xu</b> ( <i>Chinese Center for Disease Control and Prevention, China</i> )	Chair: Chuanlun Zhang
08:45 - 09:15	Plenary Lecture 2 The Genome Taxonomy Database in 2023: challenges and opportunities <b>Philip Hugenholtz</b> ( <i>The University of Queensland, Australia</i> )	Chair: Chuanlun Zhang
09:15 - 09:45	Plenary Lecture 3 Bacterial phosphorothioate DNA modification: new defense systems and synBio-driven perspective uses <b>Zixin Deng</b> ( <i>Shanghai Jiao Tong University, China</i> )	Chair: Lixin Zhang

## PHOTO & BREAK

09:45~10:00	<b>Group Photo</b>	
10:00~10:30	<b>Coffee Break</b>	<b>C Pearl River Hall</b>



## SESSIONS

10:30~12:10 **Session 1:** **Cultivating Previously Uncultivated Microbes** **C Pearl River Hall**

Conveners Svetlana N. Dedysh / Meng Li

- S1 - 01  
10:30 - 10:50  
Genome-enabled isolation of *Fervidibacter sacchari*, an aerobic, hyperthermophilic polysaccharide-degrading specialist  
**Brian P. Hedlund** (*University of Nevada Las Vegas, USA*)
- S1 - 02  
10:50 - 11:10  
Cuturomics: techniques and challenges  
**Ruifu Yang** (*Academy of Military Medical Sciences, China*)
- S1 - 03  
11:10 - 11:30  
Research progress on the diversity of methanogens  
**Lei Cheng** (*Biogas Institute of Ministry of Agriculture and Rural Affairs, China*)
- S1 - 04  
11:30 - 11:50  
Evolution of the budding yeast *Saccharomyces cerevisiae*: selectionism or neutralism?  
**Fengyan Bai** (*Institute of Microbiology, Chinese Academy of Sciences, China*)
- S1 - 05  
11:50 - 12:10  
Culturing the uncultured marine bacteria based on microbial interactions  
**Dashuai Mu** (*Shandong University, China*)

12:10~13:30 **Lunch** **F Pearl River Hall**

13:30~14:40 **Session 1:** **Cultivating Previously Uncultivated Microbes** **C Pearl River Hall**

Conveners Brian P. Hedlund / Lei Cheng

- S1 - 06  
13:30 - 13:50  
One step closer to enigmatic USC $\alpha$  methanotrophs: isolation of a *Methylocapsa*-like bacterium from a subarctic soil  
**Svetlana N. Dedysh** (*Russian Academy of Sciences, Russia*)
- S1 - 07  
13:50 - 14:10  
High-throughput microbial cultivation using two-dimensional cell separation and description of novel methanogen from municipal landfill leachate  
**Om Prakash** (*Symbiosis International (Deemed University), India*)
- S1 - 08  
14:10 - 14:25  
Cultivation is essential for studying microbial community composition  
**Hongchen Jiang** (*China University of Geosciences, China*)
- S1 - 09  
14:25 - 14:40  
Culture-based study of human gut microbiota and application of novel species  
**Yuanqiang Zou** (*BGI-Shenzhen, China*)

14:40~16:30

**Session 2:  
Changes in Microbial Systematics**

**C Pearl River Hall**

Conveners

Martha E. Trujillo / Xue-Wei Xu

S2 - 01

14:40 - 14:55

A critical assessment of a recombination-based biological species definition for microorganisms

**Raúl Riesco** (*University of Salamanca, Spain*)

S2 - 02

14:55 - 15:10

Phylogenomic reappraisal of the genus *Neisseria* at species level and description of *Neisseria leonii* sp. nov. isolated from rabbits

**Praveen Rahi** (*Collection of Institut Pasteur, France*)

S2 - 03

15:10 - 15:25

Past and present challenges of yeast taxonomy in the era of genome sequencing

**Andrey Yurkov** (*Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures, Germany*)

S2 - 04

15:25 - 15:40

Cellular fatty acid composition of *Lactobacillus acetotolerans* and its taxonomic implication

**Ken-ichiro Suzuki** (*Tokyo University of Agriculture, Japan*)

S2 - 05

15:40 - 15:55

Loss is not a bad thing: flagellar evolution and species diversity in *Actinobacteria*

**Beile Gao** (*South China Sea Institute of Oceanology, Chinese Academy of Sciences, China*)

S2 - 06

15:55 - 16:10

Mining and mechanistic research of novel functional gut bacteria based on culturomics and cohort metagenomic analysis

**Chang Liu** (*Shandong University, China*)

S2 - 07

16:10 - 16:30

One strain, one species, one paper?

**Martha E. Trujillo** (*University of Salamanca, Spain*)

16:30~17:00

**Coffee Break & Poster Session**

**C Pearl River Hall**

17:00~18:30

**Session 3:  
How to Name Uncultivated Prokaryotes**

**C Pearl River Hall**

Conveners

Maria Chuvochina / Shuang-Jiang Liu

S3 - 01

17:00 - 17:20

Why we need the SeqCode?

**William B. Whitman** (*University of Georgia, USA*)

S3 - 02

17:20 - 17:40

Naming *Cyanobacteria*: a tale of two nomenclature codes

**Aharon Oren** (*The Hebrew University of Jerusalem, Israel*)

S3 - 03

17:40 - 18:00

The art of scientific naming in the genomic era

**Maria Chuvochina** (*The University of Queensland, Australia*)



S3 - 04  
18:00 - 18:15

Challenges in the identification of uncultured toxin-producing *Cyanobacteria* (cyanoprokaryotes)

**Blagoy Uzunov** (*Sofia University, Bulgaria*)

S3 - 05  
18:15 - 18:30

Draw wisdom from Ge Hong to Skerman in prokaryote's nomenclature and the practice in China

**Yunyang Wan** (*China University of Petroleum, China*)

18:30~21:00

**Welcome Reception**

**Oriental Hall**

NOVEMBER 8<sup>th</sup> (Wed), 2023

DAY 3

## SESSIONS

08:00~09:30 **Session 4:**  
**Intra- & Inter-Species diversity and Speciation** **C Pearl River Hall**

Conveners Ramon Rossello-Mora / Yingqian Kang

S4 - 01 *Salinibacter ruber* and its intraspecific genomic discrete units  
08:00 - 08:20 **Ramon Rossello-Mora** (*Mediterranean Institute for Advanced Studies, Spain*)

S4 - 02 Time for an all-inclusive taxonomic approach for prokaryotes  
08:20 - 08:40 **Stephanus N. Venter** (*University of Pretoria, South Africa*)

S4 - 03 Microfluidic droplets for single-cell microbial cultivation, screening, and sequencing  
08:40 - 09:00 **Wenbin Du** (*Institute of Microbiology, Chinese Academy of Sciences, China*)

S4 - 04 Recent research progress on adaptive evolution trends of clinical and environmental microorganisms  
09:00 - 09:15 **Ying-Qian Kang** (*Guizhou Medical University, China*)

S4 - 05 The concatenation-based phylogenomic approach is incapable of illustrating the complicated evolutionary history of *Staphylococci*  
09:15 - 09:30 **Xiao-Yang Zhi** (*Yunnan University, China*)

09:30~09:40 **Coffee Break** **C Pearl River Hall**

09:40~12:15 **Session 5:**  
**Microbial Systematics and Its Impact on Biotechnology Research** **C Pearl River Hall**

Conveners Maria Kuyukina / Lixin Zhang

S5 - 01 From taxonomy to intelligent manufacturing of marine microbial drugs  
09:40 - 10:00 **Lixin Zhang** (*East China University of Science and Technology, China*)

S5 - 02 Non-pathogenic species of alkanotrophic *Rhodococcus* are an important resource for biotechnology  
10:00 - 10:20 **Maria Kuyukina** (*Institute of Ecology and Genetics of Microorganisms, Russia*)



- S5 - 03  
10:20 - 10:40  
Intrinsic interactions among the culturable phyllosphere microbiomes activate natural product biosynthesis  
**Linqun Bai** (*Shanghai Jiao Tong University, China*)
- S5 - 04  
10:40 - 11:00  
Spatiotemporal variations in the honeybee gut microbiome with capacity to produce novel biomolecules  
**Vartul Sangal** (*Northumbria University, UK*)
- S5 - 05  
11:00 - 11:15  
A novel CE-MS-based tracer metabolomics: a promising tool to verify amino acid biosynthesis pathways  
**Takuro Nunoura** (*Japan Agency for Marine-Earth Science and Technology, Japan*)
- S5 - 06  
11:15 - 11:30  
From DSB to non-DSB, the journey of CRISPR-based genome editing systems development for *Streptomyces*  
**Yaojun Tong** (*Shanghai Jiao Tong University, China*)
- S5 - 07  
11:30 - 11:45  
Mining microbial resources in Wuliangye and its industrial application  
**Dong Zhao** (*Wuliangye Yibin Co. Ltd., China*)
- S5 - 08  
11:45 - 12:00  
*Halorubrum solis* sp. nov., a PHA-producing haloarchaea, isolated from an inland solar saltern in Rio Maior, Portugal  
**Luciana Albuquerque** (*University of Coimbra, Portugal*)
- S5 - 09  
12:00 - 12:15  
Endophytic streptomycetes alleviate salt-stress tolerance in rice  
**Arinthip Thamchaipenet** (*Kasetsart University, Thailand*)

## SPONSOR SPEECH

12:15~12:25 **Sponsor Speech** **C Pearl River Hall**

Chair Lan Liu

**Hairong Duan** (*NGS technical application scientist, GENEWIZ, INC SUZHOU, China*)

12:25~13:30 **Lunch** **F Pearl River Hall**

13:30~14:00 **BISMis Annual General Meeting** **C Pearl River Hall**

Chairs Kamlesh Jangid / William B. Whitman / Wen-Jun Li

## SESSIONS

### Session 6:

14:00~15:40 **Bridging the Gap Between Microbial Systematics and the Larger Microbiology Community** **C Pearl River Hall**

Conveners Kamlesh Jangid / Wen-Jun Li

S6 - 01  
14:00 - 14:20 ICNP & ICSP: maintaining stable prokaryotic nomenclature and systematics  
**Edward Moore** (*University of Gothenburg and CCUG, Sweden*)

S6 - 02  
14:20 - 14:40 BISMIS Live: connecting microbial systematists across the globe  
**Kamlesh Jangid** (*Agharkar Research Institute, India*)

S6 - 03  
14:40 - 15:00 Meta-omics analysis for understanding food microbiomes  
**Che Ok Jeon** (*Chung-Ang University, Republic of Korea*)

S6 - 04  
15:00 - 15:20 WDCM serves as an information infrastructure for the exploration and utilization of microbial strains preserved worldwide  
**Juncaï Ma** (*Institute of Microbiology, Chinese Academy of Sciences, China*)

S6 - 05  
15:20 - 15:30 Catalyst roles of the World Federation for Culture Collections and the World Data Centre for Microorganisms for microbial systematics (Video)  
**İpek Kurtböke** (*University of the Sunshine Coast, Australia*)

S6 - 06  
15:30 - 15:40 News on Systematic and Applied Microbiology Journal regarding the policy in publishing new taxa  
**Ramon Rossello-Mora** (*Mediterranean Institute for Advanced Studies, Spain*)

15:40~15:50 **Coffee Break** **C Pearl River Hall**



## PLENARY LECTURES

15:50~17:10 **Plenary Lectures** **C Pearl River Hall**

Chairs William B. Whitman / Xiuzhu Dong

15:50 - 16:20 Plenary Lecture 4

A tale of four-letter acronyms: GEBA, dDDH, GGDC, TYGS, LPSN, ICNP and ICSP at the DSMZ

**Markus Göker** (*Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures, Germany*)

16:20 - 16:50 Plenary Lecture 5

Appreciate Prokaryote Taxonomy in the Research of "Hydroshere Microorganisms"

**Guoping Zhao** (*CAS Center for Excellence in Molecular Plant Sciences, China*)

16:50 - 17:10 Plenary Lecture 6

"Bergey's Manual" and Bergey's International Society for Microbial Systematics (BISMIS): past, present and future

**Wen-Jun Li** (*Sun Yat-Sen University, China*)

## ROUNDTABLE FORUM

17:10~17:50 **Roundtable Forum** **C Pearl River Hall**

## CLOSING & AWARD CEREMONY

17:50-18:20 **Closing & Award Ceremony** **C Pearl River Hall**

17:50 - 17:55 Closing Speech 1

**Chair: Kamlesh Jangid**

17:55 - 18:00 Closing Speech 2

**Chair: Michael Goodfellow**

18:00 - 18:20 Closing Speech 3

**Chair: Wen-Jun Li**

18:20~20:30 **Dinner** **F Pearl River Hall**

**NOVEMBER 9<sup>th</sup> (Thur), 2023 DEPARTURE DAY 4**

## FORUMS (NOVEMBER 6<sup>th</sup>)

19:00~20:20 **Young Scholar Forum** **C Pearl River Hall**

Chairs Vartul Sangal / Xueting Liu / Zhiyong Ruan

- Y - 01  
19:00 - 19:10 *Succinatibacterium ferrireducens* gen. nov. sp. nov., an iron-reducing bacterium isolated from oily sludge, and proposal of *Thermotaleaceae* fam. nov.  
**Cheng-Hui Peng** (*Biogas Institute of Ministry of Agriculture and Rural Affairs, China*)
- Y - 02  
19:10 - 19:20 Genomic-guided cultivation of a novel bacterial phylum *Sysuimicrobiota* sheds light on the function and evolution of chemoautotrophic traits  
**Lan Liu** (*Sun Yat-Sen University, China*)
- Y - 03  
19:20 - 19:30 Mining and taxonomic study of intestinal microbial resources  
**Lei Su** (*Chinese Academy of Medical Sciences & Peking Union Medical College, China*)
- Y - 04  
19:30 - 19:40 Shotgun metagenomics unravels the bacterial diversity and resistome profile in a tropical urban environment  
**Nimaichand Salam** (*Institute of Bioresources and Sustainable Development-Sikkim Centre, India*)
- Y - 05  
19:40 - 19:50 Genomic insights into the divergence: unraveling the phylogeny of the ambiguous genus *Eubacterium*  
**Rashidin Abdugheni** (*Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, China*)
- Y - 06  
19:50 - 20:00 Navigation for high-value microbial natural products  
**Xueting Liu** (*East China University of Science and Technology, China*)
- Y - 07  
20:00 - 20:10 Impact of wild fires on the soil microbiome  
**Maite Ortuzar** (*University of Salamanca, Spain*)
- Y - 08  
20:10 - 20:20 Taxonomic updates on the family *Pseudonocardiaceae* based on phylogenomic analysis  
**Wee Fei Aaron Teo** (*Universiti Malaya, Malaysia*)

20:20~20:30 **Coffee Break** **C Pearl River Hall**

20:30~21:50 **Graduate Student Forum** **C Pearl River Hall**

Chairs Takuro Nunoura / Chuanxing Wan / Xin-Peng Tian

- G - 01  
20:30 - 20:35 A genomic catalogue of soil microbiomes boosts mining of biodiversity and genetic resources  
**Cai-Yu Lu** (*Zhejiang University, China*)



- G - 02  
20:35 - 20:40  
Taxonomy, diversity, and amino acids utilization of an uncultivated thermophilic Archaea from Great Boiling Spring  
**Dengxun Lai** (*University of Nevada Las Vegas, USA*)
- G - 03  
20:40 - 20:45  
Multi-omics analysis reveals the association among biosynthetic potential, phylogeny and culture conditions in *Micromonospora*  
**Jia-Rui Han** (*Sun Yat-Sen University, China*)
- G - 04  
20:45 - 20:50  
Reversed oxidative TCA (roTCA) cycle-dependent carbon fixation in globally distributed *Acidimicrobiia*  
**Lei Gao** (*Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, China*)
- G - 05  
20:50 - 20:55  
The function and evolutionary history of the denitrification pathway of the *Thermus*  
**Meng-Meng Li** (*Sun Yat-Sen University, China*)
- G - 06  
20:55 - 21:00  
*Butyratibacterium faecale* gen. nov. sp. nov., a novel butyrate-producing bacterium isolated from human faeces and rearrangement of family *Oscillospiraceae*  
**Qiumei Zhang** (*Biogas Institute of Ministry of Agriculture and Rural Affairs, China*)
- G - 07  
21:00 - 21:05  
Fast biodegradation of polypropylene microplastics by an anaerobic bacteria cultivated from an Oilfield  
**Sheng-Jin Li** (*China University of Petroleum, China*)
- G - 08  
21:05 - 21:10  
Hidden taxonomic diversity in key ocean microbes  
**Vinicius Salazar** (*Federal University of Rio de Janeiro, Brazil*)
- G - 09  
21:10 - 21:15  
Carbon metabolism of *Ca. Methanofastidiosia*  
**Wen-Yi Gao** (*Biogas Institute of Ministry of Agriculture and Rural Affairs, China*)
- G - 10  
21:15 - 21:20  
Phylogenetically and metabolically diverse microorganisms in the world's deepest blue hole  
**Xing Chen** (*Ocean University of China, China*)
- G - 11  
21:20 - 21:25  
Genomic characterization and comparative analysis of *Schaalia dentiphila* sp. nov. and *Schaalia dentiphila* subsp. *caries*. subsp. nov.  
**Xuechen Tian** (*Universiti Malaya, Malaysia*)
- G - 12  
21:25 - 21:30  
Exploring rhizosphere metagenomics for novel antagonists against ginseng plant pathogens  
**Yaxin Wu** (*Beijing Normal University, China*)
- G - 13  
21:30 - 21:35  
Insights into the effects of long-term fertilization treatments on microbial diversity and function of black soil  
**Yu-Ting OuYang** (*Sun Yat-Sen University, China*)
- G - 14  
21:35 - 21:40  
Functional differentiation determines the molecular basis of the symbiotic lifestyle of *Ca. Nanohaloarchaeota*  
**Yuan-Guo Xie** (*University of Science and Technology of China, China*)
- G - 15  
21:40 - 21:45  
The function and evolutionary relationship of a new group of sulfate-reducing bacteria in Sansha Yongle Blue Hole  
**Yuli Sun** (*Ocean University of China, China*)
- G - 16  
21:45 - 21:50  
Isolation, screening and identification of PAHs degrading bacteria from sediments of the Pearl River Estuary  
**Ziqi Peng** (*Sun Yat-Sen University, China*)