ACM23

Scientific programme

HANOI, VIETNAM / NOVEMBER 16 - 18, 2026

Harnessing Microbial Resources: From Single Cells to Microbiomes for a Sustainable Bioeconomy

Legend Westlake Hotel, Yen Phu 1, Hanoi, Vietnam

Monday / November 16, 2026

7:30 - 8:30 — **Registration & Poster installation**

8:30 - 8:45 — **Opening ceremony**

- Welcome remarks by the Chair
- Welcome remarks by the VNU representative
- Welcome remarks by the ACM representative

8:45 - 10:05 — **Session 1: Microbial Culture Collection in Circular Bioeconomy and AI Era**

Chairs: Dr. Trinh Thanh Trung and Dr. Hsiu-Jung Lo

8:45 - 9:15 (30 min) — **Invited keynote: Significance and challenges of microbial resource centers in a changing world**

Prof. Dr. Jörg Overmann
Bavarian State Collections of Natural History; Molecular Biodiversity Research, University of Munich, Germany

9:15 - 9:40 (25 min) — **Selected keynote: Innovative Utilization of Microbial Data Resources in the AI Era**

Prof. Dr. Juncai Ma
World Data Centre for Microorganisms, Institute of Microbiology, Chinese Academy of Sciences, China

9:40 - 10:05 (25 min) — **Selected keynote: Building Nagoya protocol partnerships that help provider countries unlock value from microbial biodiversity in the AI economy**

Dr. Donald Pan
Basecamp Research, London, United Kingdom

10:05 - 10:30 — **Coffee break & Poster presentation**

10:30 - 12:25 — **Session 2: Microbial Culture Collection in Circular Bioeconomy and AI Era**

Chairs: Dr. Chatrudee Suwannachart and Dr. Gina R. Dedeles

10:30 - 10:50 (20 min) — **From the culture collection to the cell factory**

Dr. Yajing Yu
China General Microbiological Culture Collection Center (CGMCC), Beijing, China

10:50 - 11:10 (20 min) — **iMAPS: building a global network of microbiome metabolic observatories and strainbanks @ single-cell via high-throughput RACS-culture**

Dr. Jian Xu
Single-Cell Center, Qingdao Institute of Bioenergy and Bioprocess Technology (QIBEBT), Chinese Academy of Sciences, Qingdao, China

11:10 - 11:30 (20 min) — **From conservation to valorization: KCTC fungal resources as a platform for bio-upcycling and a sustainable bioeconomy**

Dr. Mi Kyung Lee
Korean Collection for Type Cultures (KCTC), Biological Resource Center, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Korea

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11:30 - 11:50 (20 min)

A platform for sharing and efficient utilization of engineered microorganism resources

Dr. Zhang Xiaojun
Engineering Microorganism and Genetic Tools Collection Center, Ministry of Education, Shanghai, China

11:50 - 12:10 (20 min)

Minifying space for keeping biosafety level 2 (RG-2) microbes

Dr. Hsiu-Jung Lo
Taiwan Mycology Reference Center, National Infectious Diseases Bank, National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes, Miaoli County, Chinese Taipei

12:10 - 12:25 (15 min)

Induction of sporangiospores for long-term preservation of *Syzygites megalocarpus* (Mucoromycetes): insights from transcriptome analysis.

Dr. Chise Moriya
Biological Resource Center, National Institute of Technology and Evaluation, Japan

12:25 - 13:30 **Lunch**

13:30 - 15:30 **Session 3: Agricultural Microbes for Sustainable Crop Production**

Chairs: Dr. Seung Beom Hong and Dr. Hailei Wei

13:30 - 13:55 (25 min)

Selected keynote: The neglected foundation: why true One Health demands soil health focus

Dr. Didier Lesueur
School of Life and Environmental Sciences, Faculty of Science, Engineering and Built Environment, Deakin University, Melbourne, Australia; Senior Soil Microbiologist at CIRAD, UMR Eco&Sols, Montpellier, France; Associate Senior Researcher at the Centro Internacional de Agricultura Tropical (CIAT), Hanoi, Vietnam

13:55 - 14:20 (25 min)

Selected keynote: From microbiome biobanking to agricultural innovation: Conserving and translating microbial resources for a sustainable bioeconomy

Dr. Joseph Mulema
CAB International (CABI), Nairobi, Kenya

14:20 - 14:40 (20 min)

Metabolites from *Streptomyces* spp. as potential biostimulants for use in agriculture

Dr. Hillol Chakdar
National Agriculturally Important Microbial Culture Collection (NAIMCC), ICAR-National Bureau of Agriculturally Important Microorganisms (NBAIM), Mau, Uttar Pradesh, India

14:40 - 15:00 (20 min)

Infrastructure for the conservation and utilization of microbial resources in China

Dr. Hai-Lei Wei
Agricultural Culture collection of China, Chinese Academy of Agricultural Sciences, Beijing China

15:00 - 15:15 (15 min)

From discovery to deployment: beneficial microbes for crop growth, stress resilience, and disease control in Korea

Dr. Sieun Kim
Division of Agricultural Microbiology, National Institute of Agricultural Science, Rural Development Administration, Wanju, Korea

15:15 - 15:30 (15 min)

Microbes for sustainable agriculture: Plant growth promotion and genomic characterization of *Enterobacter roggenkampii* B1-01 and *Leclercia barmai* B1-02

Camille Andrea Flores
Natural Sciences Research Institute, University of the Philippines Diliman, Quezon City, Philippines

15:30 - 16:00 **Coffee break & Poster presentation**

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16:00 - 17:25 — **Session 4: Microbiome-based Strategies for Plant and Animal Health**

Chairs: Dr. Kinoshita Hiroshi and Assoc. Prof. Dr. Dinh Thuy Hang

16:00 - 16:20 (20 min) — **Bacterial resources for antivirulence drug discovery: Endophytic bacterial communities of *Panax vietnamensis* and their interaction with the host plant in the production of bioactive compounds**

Prof. Dr. Sebastian Günther
Department of Pharmaceutical Biology, Institute of Pharmacy, University of Greifswald, Greifswald, Germany

16:20 - 16:40 (20 min) — **Rice microbiome in controlling the bacterial leaf blight (BLB) diseases**

Prof. Dr. Dinh Thuy Hang
Institute of Microbiology and Biotechnology, Vietnam National University, Hanoi, Vietnam

16:40 - 16:55 (15 min) — **Cross-kingdom interactions enhance key-member establishment and disease suppression in a designed synthetic microbial community**

Dr. Haoqing Zhang
State Key Laboratory for Quality and Safety of Agro-Products, Key Laboratory of Biotechnology in Plant Protection of MARA, Zhejiang Key Laboratory of Green Plant Protection, Institute of Plant Virology, Ningbo University, China

16:55 - 17:10 (15 min) — **Potential application of representative strains of predominant species in shrimp gut as indigenous probiotics for sustainable aquaculture**

Chau Bao Nguyen
Institute of Microbiology and Biotechnology, Vietnam National University, Hanoi, Vietnam

17:10 - 17:25 (15 min) — **Can metagenomics streamline selection of promising microbial candidates for shrimp probiotics?**

Ha Viet Nguyen
Institute of Microbiology and Biotechnology, Vietnam National University, Hanoi, Vietnam

17:25 - 19:00 — **Break**

19:00 - 21:00 — **Gala Dinner at the Victoria Room, 2nd Floor, The Hanoi Club Hotel & Residences, 76 Yen Phu Street, Tay Ho Ward, Hanoi**

Tuesday / November 17, 2026

8:30 - 12:30 — **Session 5: Task Force Reports and General Assembly**

Chairs: Dr. Trinh Thanh Trung and Ms. Funabiki Rie

8:30 - 9:45 — **T/F Report**

9:45 - 09:55 — **Short Break**

9:55 - 11:20 — **General Assembly of ACM23**

11:20 - 11:30 — **Short Break**

11:30 - 12:30 — **ACM Member Report (3 minutes for each organization's poster)**

12:30 - 14:00 — **Lunch**

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14:00 - 14:30 **Session 6: Flash Talks (3 - 5 minutes for research finding posters)**

Chairs: Dr. Hoang Thi Lan Anh and Dr. Trinh Thanh Trung

Characterization of the soil bacterial community associated with *Rafflesia consueloae* and its *Tetrastigma* sp. Host

Cedrick Verdejo Alguzar
Microbiological Research and Services Laboratory, Natural Sciences Research Institute, University of the Philippines Diliman, Quezon City 1101

Unveiling the MICP potential of Actinomycetes from Caramoan cave speleothems in Camarines Sur, Philippines

Catherine Joyce Orate
Microbiological Research and Services Laboratory, Natural Sciences Research Institute, Miranda Hall, Quirino corner P. Velasquez St., University of the Philippines - Diliman, Quezon City

Dynamics of rice microbiomes reveal core vertically transmitted seed endophytes

Dr. Ma Yinan
National Key Laboratory of Agricultural Microbiology and Key Laboratory of Agricultural Microbiome (MARA), Biotechnology Research Institute, Chinese Academy of Agricultural Sciences, Beijing 100081, China

Diversity and functional potential of paddy soil microbial resources along an elevation gradient in Yunnan and Guangxi, China

Dr. Zhiyong Ruan
State Key Laboratory of Efficient Utilization of Arable Land in China/CAAS-CIAT Joint Laboratory in Advanced Technologies for Sustainable Agriculture, Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences, Beijing, China

14:30 - 15:00 **Coffee break & Poster presentation**

15:00 - 16:50 **Session 7: Microbes for Human Health and Safe Foods**

Chairs: Dr. Ju Huck Lee and Prof. Dr. Zunita Zakaria

15:00 - 15:20 (20 min) **From indigenous probiotic resources to gut microbiomes: Development and functional evaluation of multi-strain probiotics**

Dr. Hoang Van Vinh
Institute of Microbiology and Biotechnology, Vietnam National University, Hanoi, Vietnam

15:20 - 15:40 (20 min) **From microbial bioactive molecules to neuroprotection: Exploring β-amyloid modulation by biomolecules from *Rhodotorula paludigena***

Mark Kevin Devanadera
Department of Biochemistry, Faculty of Pharmacy, University of Santo Tomas, Manila, Philippines

15:40 - 15:55 (15 min) **Integrated culture-based and 16S rRNA gene profiling of Vietnamese maternal and neonatal microbiota**

Dr. Thi Ly Do
Institute of Microbiology and Biotechnology, Vietnam National University, Hanoi, Vietnam

15:55 - 16:15 (20 min) **From Korea's signature fermented food to health-promoting bioresources: Functional lactic acid bacteria portfolio for next-generation health applications**

Dr. Misun Yun
Industrial Innovation Research Division, Kimchiome Bio-Resources Research Group, World Institute of Kimchi, Gwangju, Republic of Korea

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16:15 - 16:35 (20 min)

Lactic acid bacteria: From fundamental research to applications in traditional fermented meats in Vietnam

Dr. Hoang Thi Lan Anh
Institute of Microbiology and Biotechnology, Vietnam National University, Hanoi, Vietnam

16:35 - 16:50 (15 min)

Chlorella sorokiniana derived ZnO nanoparticles for Pb(II) sequestration: Interfacial adsorption behavior, thermodynamics, and regeneration study

Manish Sutradhar
Department of Earth and Environmental Sciences, National Chung Cheng University, Min-Hsiung, Chiayi County, Chinese Taipei

16:50 - 17:00

Wrap-up

Wednesday / November 18, 2026

8:00 - 17:00

Tours

Tours to new campus of Vietnam National University, Hanoi and Vietnam National Village for Ethnic Culture and Tourism