



Program Book

MICROBIOME: HUMAN, PLANT AND ENVIRONMENTAL HEALTH

applications and challenges



ABU DHABI NATIONAL EXHIBITION CENTER (ADNEC)
ABU DHABI, UNITED ARAB EMIRATES

NOVEMBER 21 – 22, 2023



Get In Touch

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UAEMicrobiome23



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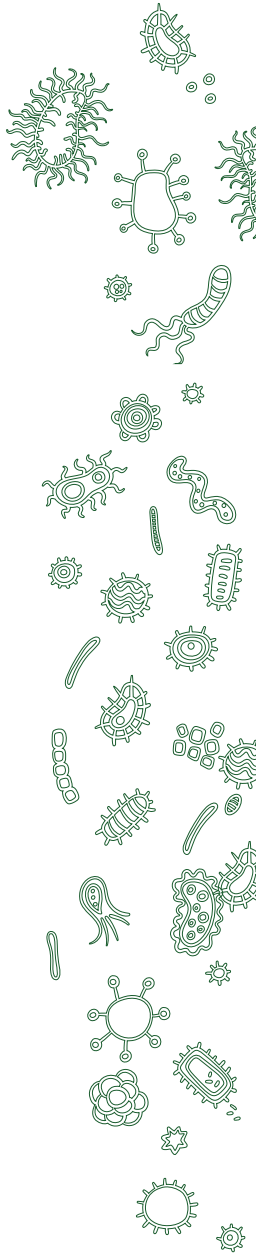
International Conference
"UAE Microbiome 2023"



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Day 1:

Tuesday, November 21, 2023

8:00 AM - 8:45 AM — Arrival and Registration

LOCATION
Between Hall A and B

8:45 AM - 9:00 AM — **Welcome note - Khaled Amiri,**

Hall B

Chair, UAE Microbiome 2023

SESSION 1: HUMAN AND ANIMAL MICROBIOME

SESSION CHAIRS: Mohammad Tauqeer Alam and Khaled Hazzouri

LOCATION

9:00 AM - 9:40 AM — **I1: Invited talk: Trevor Lawley,**

Wellcome Sanger Institute and Microbiotica, Cambridge, UK.

Talk title: Making Medicines from the Human Microbiome.

9:40 AM - 9:55 AM — **O1: Farah Al-Marzooq,**

United Arab Emirates University, United Arab Emirates.

Talk title: Deciphering salivary microbiome signature in Crohn's disease patients with different factors contributing to dysbiosis.

9:55 AM - 10:10 AM — **O2: Maha Al-Asmakh,**

Qatar University, Qatar.

Talk title: Metagenomic Analysis of Oral Microbiome during pregnancy.

10:10 AM - 10:25 AM — **O3: Abiola Senok,**

Mohammed Bin Rashid University of Medicine and Health Sciences, United Arab Emirates.

Talk title: Investigating the microbial community contaminating mobile phones: A metagenomic sequencing and microbial genotyping study from the United Arab Emirates.

10:25 AM - 10:45 AM — **Tea break**

LOCATION
Hall A

10:45 AM - 11:25 AM — **I2: Invited talk: Jingyuan Fu,**

University Medical Center Groningen, The Netherlands.

Talk title: Individual specificity of the human gut microbiome: a new player in personalized medicine.

LOCATION

11:25 AM - 11:40 AM — **O4: Ahmed A. Shibl,**

New York University Abu Dhabi, United Arab Emirates.

Talk title: Multiomics reveals distinct oral microbial functions and metabolic profiles contributing to host phenotypes.

11:40 AM - 11:55 AM — **O5: Areej A. Alhhamzi,**

Taibah University Saudi Arabia.

Talk title: Gut Microbiota Profile among Advanced Colorectal Cancer.

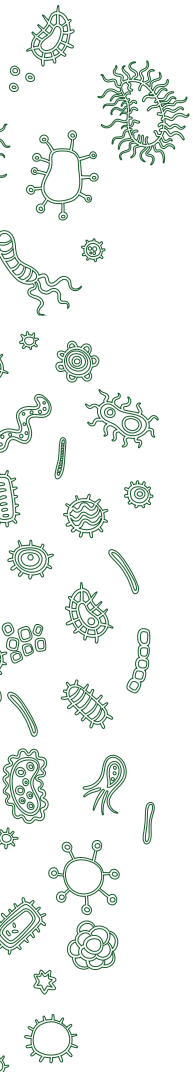
11:55 AM - 12:10 PM — **O6: Sarma PVS RN,**

University of Hyderabad, India.

Talk title: Dissecting and understanding the seed microbiome differences between cultivated groundnut and wild germplasm accessions.

LOCATION
Hall A

12:10 PM - 1:15 PM — **Lunch**



Hall B

Hall B

**SESSION 2: Human and animal microbiome**

SESSION CHAIRS: Ranjit Vijayan and Tiago Magalhaes

1:15 PM - 1:55 PM	I3: Invited talk: Souhaila Al Khodor, Sidra Medicine, Doha, Qatar. Talk title: Can the Salivary Microbiome Predict Chronic Diseases? Lessons Learned from the Qatari Population.	LOCATION Hall B
1:55 PM - 2:25 PM	I4: Invited talk: Hani El-Nezami, School of Biological Sciences, The University of Hong Kong. Talk title: Gut Microbiome: A potential target for the prevention and treatment of liver diseases.	LOCATION Hall A
2:25 PM - 2:45 PM	Tea break	LOCATION Hall A
2:45 PM - 3:25 PM	I5: Invited talk: Shivaji Sisinthy, Prof Brien Holden Eye Research Institute, L V Prasad Eye Institute, Hyderabad, India. Talk title: Implications of the gut microbiome on diseases of the human eye.	LOCATION Hall B
3:25 PM - 3:55 PM	Flash talks F1: Michael Olbrich, Khalifa University, United Arab Emirates. Talk title: MBECS: Microbiome Batch Effects Correction Suite. F2: Natasha Barnes, CSIR-National Institute of Oceanography, India Talk title: Impact of trace metal deposition on marine microbial communities. F3: Raza Muhammad, Chulalongkorn University, Thailand. Talk title: Influence of environment and diet on gut microbiota variation in two subspecies of Macaca fascicularis. F4: Shahana Seher Malik, United Arab Emirates University, United Arab Emirates. Talk title: Decoding microbiome and their antibiotic resistance patterns in a UAE wastewater treatment plant: a wake-up call for effective measures. F5: Haneen Abdullah Al-Saadi, Sultan Qaboos University, Oman. Talk title: In vitro detoxification of aflatoxin B1 by bacterial isolates from the gut of the rice weevil (Sitophilus oryzae L.) (Coleoptera: Curculionidae). F6: Duaa Ahmed Elhag, Sidra medical and research center, Qatar. Talk title: Dynamics of the vaginal microbiome and cytokines levels in women with Gestational Diabetes.	LOCATION Hall B
3:55 PM - 5:00 PM	Tea break + Poster session (F1-F6 and P1-P70)	LOCATION Hall A
5:00 PM - 6:00 PM	Confernece inaugration ceremony	LOCATION Hall B
6:00 PM - 7:00 PM	Plenary talk: Peer Bork, Director, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany. Talk Title: Microbiome analysis for human and planetary health.	LOCATION Hall B
7:00 PM - 8:30 PM	Gala dinner (all conference participants)	LOCATION Hall A



Day 2:

Wednesday, November 22, 2023

SESSION 3: Environmental (soil and plant) microbiome

SESSION CHAIRS: Sunil Mundra and Abdullah Al-Sadi

LOCATION

9:00 AM - 9:40 AM	I6: Invited talk: Alexandre S. Rosado, King Abdullah University of Science and Technology (KAUST), Kingdom of Saudi Arabia. Talk title: Life at the Edge: Innovative, Evolutionary and Biotechnological Survey of Extreme Microbes from Saudi Arabia.	Hall B
9:40 AM - 9:55 AM	O7: Laura Zucconi, University of Tuscia, Italy. Talk title: Unraveling Antarctic Soil Microbial Communities and Environmental Shifts.	
9:55 AM - 10:10 AM	O8: Raeid Abed, Sultan Qaboos University, Oman. Talk title: Extremophilic microbiome in the Arabian deserts: novel diversity, metabolic processes and a great potential for biotechnology	
10:10 AM - 10:25 AM	O9: Shankar Manoharan, Indian Institute of Technology Jodhpur, India. Talk title: Ecological engineers of the thar desert: a long-read metagenomics perspective.	
10:25 AM - 10:45 AM	Tea break	LOCATION Hall A
10:45 AM - 11:25 AM	I7: Invited talk: Leho Tedersoo, University of Tartu, Estonia. Talk title: Diversity and global change vulnerability of the Earth soil mycobiome.	LOCATION Hall B
11:25 AM - 11:40 AM	O10: Muhammad Ishtiaq Ali, Quaid-i-Azam University Islamabad, Pakistan. Talk title: Exploring the Potential of Organic Waste-derived Biochar for Soil Bioremediation in Diesel-contaminated Environments.	
11:40 AM - 11:55 AM	O11: Munawwar Ali Khan, Zayed University, United Arab Emirates. Talk title: Halotolerant plant growth-promoting bacteria isolated from avicennia marina alleviate saline stress in radish (raphanus sativus l).	
11:55 AM - 12:10 PM	O12: Maged SAAD, King Abdullah University of Science and Technology (KAUST), Saudi Arabia. Talk title: Unlocking Nature's Blueprint: The Saudi Soil BioAtlas and its Transformative Impact on Ecosystems towards a Greener Saudi Arabia.	LOCATION Hall A
12:10 PM - 1:15 PM	Lunch	

**SESSION 4: Environmental (soil and plant) microbiome**

SESSION CHAIRS: Synan AbuQamar and Khalid Muhammad

LOCATION

1:15 PM - 1:55 PM

I8: Invited talk: Kasthuri J Venkateswaran

NASA Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, USA.

Talk title: *Microbes in Space: Lessons Learned.*

1:55 PM - 2:10 PM

O13: Khaled Masmoudi

United Arab Emirates University, United Arab Emirates.

Talk title: *Harnessing Plant-Microbiome Interactions for Abiotic stress mitigation in Date Palm.*

2:10 PM - 2:25 PM

O14: Majed D. Alotaibi,

Abu Dhabi Agriculture and Food Safety Authority, United Arab Emirates.

Talk title: *Microorganisms Activity for Degrading Chemical Contaminants Displayed in Recycled Water Used for Managed Aquafer Recharged.*

LOCATION

2:25 PM - 2:45 PM

Tea break

Hall A

2:45 PM - 3:25 PM

I9: Invited talk: Shady Amin,

New York University Abu Dhabi, United Arab Emirate.

Talk title: *The role of the microbiome in coral adaptation to climate change.*

LOCATION

3:25 PM - 3:55 PM

Flash talks**F7: Aditi Pandit,**

University of South Bohemia, Czech Republic.

Talk title: *Unveiling the Diversity and Specificity of Orchid Mycorrhizal Fungi Associations: Insights from Geographic Regions and Methodological Comparisons.***F8: Balamurugan Sadaippan,**

United Arab Emirates University, United Arab Emirates.

Talk title: *Unveiling the microbial tapestry: global diversity and biogeographic patterns of mangrove microbiomes.***F9: Mohamed T. El-Saadony,**

Zagazig University, Egypt.

Talk title: *Wheat microbiome promotes the defense responses against Fusarium culmorum colonization.***F10: Al Anoud A. Alshamsi,**

United Arab Emirates University, United Arab Emirates.

Talk title: *Mangrove (Avicennia marina) growth and development are further enhanced by the use of halotolerant plant growth-promoting actinobacteria in conjunction with fish emulsion.***F11: Amal Khalaf Alghamdi,**

King Abdullah University of Science and Technology, Saudi Arabia.

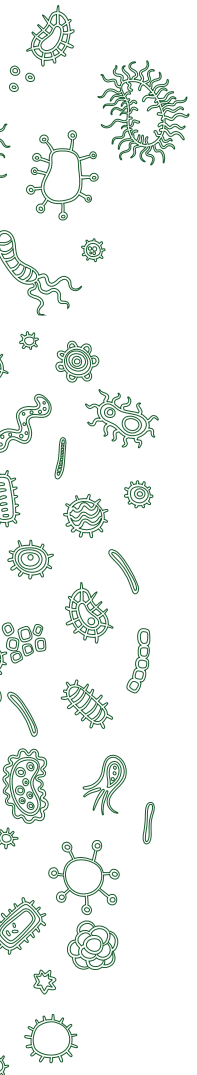
Talk title: *The Mangrove-Associated Bacteria for Crop Plant Sustainability.***F12: Fabiana Canini,**

University of Tuscia, Italy.

Talk title: *Responses of soil microbial communities to the spread of invasive alien species in coastal sand dunes.*

Hall B

Hall B





F13: Komal Shoukat,
Government College Women University, Pakistan.
Talk title: Characterization of Plant Growth Promoting
Rhizobacteria (PGPR) for Enhancing Drought Tolerance in Mung
Bean Under Variable Moisture Regimes

LOCATION

Hall B

F14: Alotaiba Amna,
Al Ain Zoo, United Arab Emirates
Talk title: Chemical and Biological testing of potable water in AL AIN City

LOCATION

Hall A

3:55 PM - 5:00 PM — Tea break + Poster session (F7-F12 and P71-P146)

5:00 PM - 5:30 PM — **Panel discussion: How to bridge microbiome innovation, funding,
and geographical expansion to the UAE?**

LOCATION

Hall B

Panelist**Khaled Amiri,**Director KCGEB and Chairmen Department of Biology, UAE
University**Jeremy Lim,**

Co-founder and CEO of AMILI

Johan van Hylckama Vlieg,

Co-founder and CSO of Freya Biosciences

Peter Luke,

Biotech Investor

Sunil Mundra,

Department of Biology, UAE University

Session moderator:**Mohammad Tauqeer Alam,**

Department of Biology, UAE University

Session introducer:**Caroline Souchet,**

Investment Manager, CE-Ventures

5:30 PM - 6:00 PM — **Closing ceremony**

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