# Speakers

### iFAST Symposium Microbial Ecology

To celebrate Professor James Tiedje's 80th birthday and honor his outstanding contributions to microbial ecology

Professor James Tiedje is University Distinguished Professor Emeritus of Microbiology and Molecular Genetics and of Plant, Soil and Microbial Sciences at Michigan State University, and was director of the Center for Microbial Ecology for 30 years. His contributions have been on microbial ecology, physiology and diversity, especially regarding the nitrogen cycle, biodegradation of pollutants and on the use of genomics and metagenomics to understand speciation, community structure and functions. He served as editor-in-chief of Applied and Environmental Microbiology and editor of Microbial and Molecular Biology Reviews and mBio. He served on the Board on Life Sciences of the National Research Council, EPA's Science Advisory Panel and on DOE's Biological and Environmental Research Advisory Committee. He was president of the American Society for Microbiology and the International Society of Microbial Ecology. He has received numerous awards, including UNESCO's Carlos J. Finlay Prize in microbiology and ASM's Applied and Environmental Research Award. He is a member of the U.S. National Academy of Sciences and a Fellow of the AAAS, the American Academy of Microbiology, the Ecological Society of America, and the Soil Science Society of America.



Mon Apr 4

Tue Apr 5



10 a.m. - 12:30 p.m. EDT 2 - 4:30 p.m. GMT 10 p.m. - 12:30 a.m. China

#### **Microbial Ecology**

**Niels Peter Revsbech** Yoichi Kamagata **Fengping Wang Andreas Schramm Ederson Jesus Daliang Ning** 

Maggie Yuan Vincent Denef Environ. Microbiol. & Ecosystem

Joshua Schimel Gupta Vadakattu Claudia Etchebehere

**Tong Zhang** 

Jianzhong He

Jennifer Pett-Ridge

**Marius Vital** 

**Konny Smalla** 

Comput. Biol. & Engagement

**Philip Robertson** 

**Patrick Chain** 

**Kostas Konstantanidis** 

Ruonan Wu

**Arturo Massol** 

Mary Beth Leigh

James Tiedje

#### **Organizing committee**















Mary Firestone Philip Robertson Charles Rice

Janet Jansson Jizhong Zhou Kristian Brandt Adina Howe





INSTITUTE FOR ENVIRONMENTAL GENOMICS

Zoom Link - https://zoom.us/j/93481422012

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#### **Microbial Ecology**

Microbial Ecology				Ani
10 a.m.	Introduction: Mary Firestone	University of California, Berkeley		
10:10 a.m.	Keynote: Niels Peter Revsbech	Aarhus University, Denmark		4
	How Measurements at High Spatial Resolution Have Improved Our Understanding of the Nitrogen Cycle			
10:40 a.m.	Yoichi Kamagata	Hokkaido University, Japan		
	What I Learnt from Syntrophy			
10:55 a.m.	Fengping Wang	Shanghai Jiao Tong University, China		
	Ecological Roles and Life Strategy of Archaea in Marine Sediments			
11:10 a.m.	Andreas Schramm	Aarhus University, Denmark		
	Electrically Conductive Cable Bacteria in Nitrogen Cycling			
11:25 a.m.	5-minute break			
11:30 a.m.	Ederson Jesus	Embrapa, Rio de Janerio, Brazil		
	Bacterial Diversity in the Amazon Forest Floor: from Basics to Applied			
11:45 a.m.	Daliang Ning	University o	f Oklahoma	
	Reasons and Chance: Quantifying Microbial Community Assembly Mechanisms			
Noon	Maggie Yuan	University o	f California, Berkeley	
	Microbial Mediation of Grassland C Cycle: Stories from in the Field			
12:15 p.m.	Vincent Denef	University of Michigan		
	Algal Microbiomes Alter Competitive Interactions between Their Hosts			

**U.S. Eastern Time** 





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#### **Environmental Microbiology & Ecosystem**

			AM	
10 a.m.	Introduction: Charles Rice	Kansas State University		
10:10 a.m.	Keynote: Joshua Schimel	University California, Sa	anta Barbara	
	The Democracy of Dirt: Relating Micro-Scale Dynamics to Macro-Scale Ecosystem Function			
10:40 a.m.	Gupta Vadakattu	CSIRO, Australia		
	Disease Suppression: Composition, Complexity or Functional Capacity of Soil Microbiomes			
10:55 a.m.	Claudia Etchebehere	Biological Research Ins	titute Clemente Estable, Uruguay	
	Chloroflexi in Wastewater Treatment Systems: Threats or Guardians of the Ecosystem?			
11:10 a.m.	Tong Zhang	Hong Kong University,	China	
	Antibiotics Resistance Genes as Emerging Pollutants from Wastewater Treatment Plants			
11:25 a.m.	5-minute break			
11:30 a.m.	Jianzhong He	National University of S	ingapore	
	Microplastic Hotspots for Microbial Reductive Dehalogenation			
11:45 a.m.	Jennifer Pett-Ridge	Lawrence Livermore Na University of California,	• •	
	Fungi and Friends: the Role of Fungal-Bacterial Interactions in Rhizosphere Biogeochemistry			
Noon	Marius Vital	Hannover Medical Scho	ool, Hannover, Germany	
	The Good, the Bad and the Neutral of Human Gut Microbiota			
12:15 p.m.	Kornelia Smalla	Institute for Epidemiolog Germany	gy and Pathogen Diagnostics,	
	Antibiotic Resistance Genes and Mobile Genetic Elements in Soil and Plant Bacter			

**U.S. Eastern Time** 







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#### Computational Biology & Engagement

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10 a.m.	Introduction: Janet Jansson	Pacific Northwest National Laboratory			
10:10 a.m.	Keynote: G. Philip Robertson	Michigan State University			
	When Push Comes to Shove: Scaling Microbial Processes				
10:40 a.m.	Patrick Chain	Los Alamos National Laboratory			
	Diving Deep into Microbial Genomic Data – Big Findings in Small Fungi, Bacteria, and Viruses				
10:55 a.m.	Kostas Konstantinidis	Georgia Institute of Technology			
	The Quest for What a Species Is: from the CME Time to Present				
11:10 a.m.	Ruonan Wu	Pacific Northwest National Laboratory			
	Unearthing Soil Viruses				
11:25 a.m.	5-minute break				
11:30 a.m.	Arturo Massol	University of Puerto Rico, Mayaguez			
	Science for Constructive Insurgency in Times of Climate Change				
11:45 a.m.	Mary Beth Leigh	University of Alaska Fairbanks			
	The Art of Microbiology: Community Engagement Through Art-Science Integration				
Noon	Adina Howe	Iowa State University			
	Kristian Koefoed Brandt	University of Copenhagen, Denmark			
	Photo show				
12:15 p.m.	James Tiedje	Michigan State University			
	Transitioning Through Time: me and ME				
	Adjourning: <b>Jizhong Zhou</b>	University of Oklahoma			

**U.S. Eastern Time** 



