

Conference Programme

19th Nov (Sat), All day registration, The first floor lobby of Hanyuan Hotel		
20th Nov (Sun), conference room on the 6th floor of the hotel		
Opening ceremony and remarks. Chair: Qirong Shen (8:30-9:00) and Paolo Nannipieri (9:00-9:30)		
Time	Speaker	Presentation title
8:30-9:00	To be determined	Opening of Soil Quality Day of China
9:00-9:30	Vice President of Nanjing Agricultural University	Welcome address and opening remarks
	Prof. James Tiedje	
	Official from Ministry of Agriculture	
	Official from NSFC	
9:30-9:50	Group photo	
9:50-10:00	Tea Break	
Opening Keynote Speech. Chair: Pascal Simonet		
Time	Speaker	Presentation title
10:00-10:30	James Tiedje Michigan State University, USA	Mining Soil Metagenomes for Meaning
10:30-11:00	Qirong Shen , Nanjing Agricultural University, China	Development of organic-based fertilizers to sustain the agriculture and environments
11:00-11:30	Paolo Nannipieri , University of Florence, Italy	Genes Codifying Enzymes and Enzyme Activities in Soil
11:30-12:00	Jizhong Zhou Oklahoma University, USA	Tracking community functions with GeoChip: Current Status, Challenges and Future Perspectives
12:00-14:00	Lunch	
Functional Soil Microbiology. Chair: Ralf Conrad		
14:00-14:30	Yongguan Zhu Academy of Sciences, China	GeoChip-based analysis of microbial functionality of paddy soils with long-term nutrient management
14:30-15:00	Rainer Georg Joergensen , University of Kassel, Germany	Amino sugars as markers for microbial residues in soil
15:00-15:30	Ji-Zheng He , Chinese Academy of Sciences, China	Contribution of ammonia-oxidizing archaea to ammonia oxidation in acid soils
15:30-16:00	Ji-Dong Gu , The University of Hong Kong, Hong Kong	Detection and Niche Specificity of Anammox in Marine and Agricultural Ecosystems
16:00-16:30	Tea Break	
Functional Soil Microbiology. Chair: Rainer Georg Joergensen		
16:30-17:00	Xiaojun Zhang , Shanghai Jiao Tong University, China	Identification and monitoring of key players in the microbial communities and sequences guided isolation
17:00-17:30	Giacomo Pietramellara , University of Florence, Italy	The fate and ecological relevance of extracellular DNA in soil

17:30-18:00	Zhongjun Jia , Chinese Academy of Sciences, China	Urea hydrolysis as a mechanism for archaeal ammonia oxidation in two acidic soils
18:00-19:30	Banquet (Zhongshan Hall on the 3 rd floor of the hotel)	
21st Nov (Mon), conference room on the 6th floor of the hotel		
Soil Omics. Chair: Jizhong Zhou		
8:30-9:00	Zhongli Cui , Nanjing Agricultural University, China	Cloning and functional characterization of a novel endo- β -1,4-glucanase gene from a soil-derived metagenomic library
9:00-9:30	Joseph Nesme , Université de Lyon, France	“Metaplasmidomics” investigation of soil bacteria in a reference soil.
9:30-10:00	Ralf Conrad , Max Planck Institute, Germany	Functional analysis of soil microorganisms: transcript analysis of functional genes, stable isotope probing of mRNA, transcriptomics
10:00-10:30	Tea Break	
Soil Omics. Chair: Giacomo Pietramellara		
10:30-11:00	Binbin Liu , Norwegian University of Life Sciences, Norway	Denitrifying community diversity and activity in a organic agricultural soil revealed by high-throughput sequencing of the functional genes and transcripts
11:00-11:30	Giancarlo Renella , University of Florence, Italy	Needs for developing soil proteomics: who, what, when and where
11:30-12:00	Jake G. Bundy , Imperial College in London, UK	Metabolomics and soil: applications with a key soil organism
12:00-14:00	Lunch	
Soil Omics. Chair: Ji-Dong Gu		
14:00-14:30	Jizhong Zhou , Oklahoma University, USA	Comparison of Metagenomic technologies for profiling soil microbial community structure
14:30-15:00	Eric Wommack , University of Delaware, USA	The virosphere: ecological, biological, and genetic contrasts of viruses across the biosphere
15:00-15:30	Penny Hirsch , Rothamsted Research, UK	Soil metagenomics reveals impacts of land management on microbial communities in long-term field experiments
15:30-16:00	Ruifu Zhang , Nanjing Agricultural University, China	Bio-control of soil-borne disease with antagonisms: genomic perspective
16:00-16:30	Tea Break	
Soil Omics. Chair: Martin F. Polz		
16:30-17:00	David D. Myrold , Oregon State University, USA	Omics for Soil: Choose One or Integrate All?
17:00-17:30	Ferran Garcia-Pichel , Arizona State University, USA	“Omic” approaches to the study of biological soil crusts: from genomics to metatranscriptomics and co-metabolomics
17:30-18:00	Rainer Borriss , AgroBiotechnical Development and Production, Germany	Transcriptome and proteome of the root associated and plant growth promoting bacterium <i>Bacillus amyloliquefaciens</i> plantarum
18:00-19:30	Dinner	
19:30-21:00	Variety Show in College Center	
22nd Nov (Tue), conference room on the 6th floor of the hotel		
Soil Microbial Diversity & Community. Chair: Ferran Garcia-Pichel		

8:30-9:00	Eric Triplett , University of Florida, USA	The use of long-term agricultural experiments to understand the drivers of microbial diversity
9:00-9:30	Pascal Simonet , University of Lyon, France	Is there a limit to the extent of the rare biosphere in soil?
9:30-10:00	Shiping Deng , Oklahoma State University, USA	Challenges and Potentials in Linking Soil Bacterial Metagenomics to Ecosystem Functions
10:00-10:30	Tea Break	
Soil Microbial Diversity & Community. Chair: David D. Myrold		
10:30-11:00	Edoardo Puglisi , Università Cattolica del Sacro Cuore, Italy	High-throughput sequencing approaches to elucidate prokaryotic diversity patterns
11:00-11:30	Anna Lavecchia , University of Bari, Italy	Bacterial diversity in soils under different agricultural managements evaluated by 16S rRNA gene based pyrosequencing
11:30-12:00	Cao Xue , Nanjing Agricultural University, China	Try to Make Plant Comfortable by Optimizing Proper Soil Microbial Communities in Rhizosphere (Panama Disease Case)
12:00-14:00	Lunch	
Microbial Evolution and others. Chair: Eric Wommack		
14:00-14:30	Martin F. Polz , Massachusetts Institute of Technology, USA	Ecology and Evolution of Bacterial Populations
14:30-15:00	Jorge Vivanco , Colorado State University, USA	Plant health and the soil microbiome: an overlooked factor in integrated agricultural management
15:00-15:20	Shuang Zhao , Nanjing Agricultural University, China	The molecular methods study of soil pathogen <i>Fusarium oxporum</i> and <i>Magnaporthe poae</i> and their distribution in the rhizosphere soil
15:20-15:40	Yang Wang , Nanjing Agricultural University, China	<i>Bacillus subtilis</i> genome editing using ssDNA with short homology regions
15:40-16:00	Tea Break	
16:00-18:00	Round table discussion. Chair: James Tiedje & Qirong Shen	
18:00-20:00	Dinner	