		Oct 21, Tuesday   Room 208, International Exch	ange Center		
Opening Session					
Moderator: Prof.	Zhi Li, Vice	e dean of the College of Natural Resources and Environmen	nt		
08:30-09:00	Opening remarks  Prof. Wei Gehong Vice President of Northwest A&F University; Conference President  Prof. Xiaohong Tian Dean of the College of Natural Resources and Environment  Prof. James Tiedje (online) Conference Co-President, Michigan State University, United States  Prof. Kornelia Smalla				
	Speaker representative, Julius Kühn Institute, Germany  Group Photo				
		Scientific Program			
Moderator:					
Time		Title of talk	Speaker		
09:10-09:40		on and Phage-Based Control of Antibiotic-Resistance in reatment Plants	Prof. Pedro J. Alvarez Rice University, United States		
09:40-10:10	Using met	chanotrophic bacteria to refine our understanding of on inhibitors	Prof. Lisa Y. Stein University of Alberta, Canada		
10:10-10:30		Tea Break			
Moderator:					
10:30-11:00	Novel bioinformatic approaches for reliable metagenome-based abundance estimates and pollution source tracking		Prof. Kostas Konstantinidis Georgia Tech, United States		
11:00-11:30	Genomics and metagenomics reveal that congeneric species and conspecific genomovar replacements are key for their ecological success		Prof. Ramon Rossello-Mora Mediterranean Institute for Advanced Studies, Spain		
11:30-12:00	Using machine learning to predict ancient microbial phenotypes		Prof. Gergely János Szöllősi Okinawa Institute of Science and Technology, Japan		
12:10-13:10	Lunch buffet, Guest House				
Moderator:					
14:30-15:00	New appro	oaches to restoring the soil microbiome for One Health	Prof. Gabriele Berg Graz University of Technology, Max Planck Institute of Colloids and Interfaces, Germany		
15:00-15:20	Soil micro	biomes and functions in eroded and rehabilitated ecosystems	Prof. Xiaorong Wei Northwest A&F University, China		
15:20-15:40	Tea Break				
Moderator:					
15:40-16:10		l behaviors determine the efficiency of metabolic interactions y structured microbial communities	Prof. Miaoxiao Wang University of Electronic Science and Technology, China		
16:10-16:40	Soil Micro Resistance	obiomes as Barriers and Conduits for Antimicrobial	Prof. Uli Klümper Technische Universität Dresden Germany		
16:40-18:10	Poster Session				
18:20-19:30	Dinner buffet, Guest House				

Oct 22, Wednesday   Room 208, International Exchange Center				
Moderator:				
Time	Title of talk	Speaker		
08:30-09:00	Anthropogenic use of antimicrobials and impact on bacterial pathogen evolution -An environmental and soil perspective	<b>Prof. Steven Djordjevic</b> University of Technology Sydney, Australia		
09:00-09:30	Effects of irrigation water quality and soil type on soil and plant associated bacterial communities, abundance, diversity and transferability of antibiotic resistance genes	<b>Prof. Kornelia Smalla</b> Julius Kühn Institute (JKI), Germany		
09:30-09:50	Globa Health Risks Lurking in Livestock Resistome	<b>Prof. Xun Qian</b> Northwest A&F University, China		
9:50-10:10	Tea Break			
Moderator:				
10:10-10:40	Microbial Pathways to Soil Health: Scaling from Genes to Ecosystems	Prof. Bruce A. Hungate Northern Arizona University, United States		
10:40-11:00	Rhizobial 3MST regulates soybean nodulation via persulfidation of host RbohB	<b>Dr. Weiqin Zhang</b> Northwest A&F University, China		
11:00-11:30	Beyond the Root: Microbial Contributions to Plant Growth and Resilience	<b>Prof. Peng Yu</b> Technical University of Munich, Germany		
11:30-11:50	The Many Faces of T6SS: From Bacterial Interactions to Eukaryotic Targeting	<b>Prof. Li Song</b> Northwest A&F University, China		
12:00-13:00	Lunch buffet, Guest House			
Moderator:				
14:30-15:00	Organic carbon remineralization in some surprising places in Arctic soils	<b>Prof. Karen G. Lloyd</b> University of Southern California, United States		
15:00-15:20	Ants modify carbon cycling and organic matter stability in soil	<b>Prof. Lichao Fan</b> Northwest A&F University, China		
15:20-15:50	Exploring the role of the soil microbiome as predictor of ecosystem multifunctionality in Europe	<b>Dr. Ferran Romero</b> Swiss Federal Institute of Technology Lausanne, Swiss		
15:50-16:10	Tea Break			
Moderator:				
16:10-16:40	A geological timescale for bacterial evolution and oxygen adaptation	<b>Prof. Tom Williams</b> University of Bath, United Kingdom		
16:40-17:00	Sustainable Biomanufacturing of Aromatic Chemicals by Synthetic Biology	<b>Prof. Ziwei Luo</b> Northwest A&F University, China		
17:00-17:30	Healthy Soils, Healthy Planet: Integrating Microbiomes into One Health Policy	<b>Dr. Ahmed Abdelfattah</b> Leibniz Institute for Agricultural Engineering and Bioeconomy, Germany		
17:30-17:50	Closing Session			
18:10-20:00	Group Dinner			