

Microverse of the environment		Page
10:00	Online registration desk	
11:00	<b>Axel A. Brakhage</b>   Friedrich Schiller University and Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute, Jena Welcome and short introduction of the Cluster of Excellence <i>Balance of the Microverse</i>	
11:10	<b>Paul Rainey</b>   Max Planck Institute for Evolutionary Biology, Ploen Toward a dynamical understanding of microbial communities	16
11:35	<b>Leo Eberl</b>   University of Zurich A new family of diazeniumdiolate signaling molecules in bacteria	17
12:00	<b>Melanie Blokesch</b>   Swiss Federal Institute of Technology Lausanne Pathoecology and evolution of <i>Vibrio cholerae</i>	18
12:25	<b>Daniel Rozen</b>   Leiden University How <i>Streptomyces</i> divide the labour of antibiotic production	19
12:50	<b>Christine Beemelmans</b>   Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute, Jena Novel secondary metabolites from the Termite Microverse	20
13:05	Break	
13:30	<b>Poster Session I</b> Visit the individual break-out rooms for discussions with the poster presenters	
14:30	Break	
Aquatic microbial ecology		Page
15:00	<b>Kirsten Küsel</b>   Friedrich Schiller University Jena Short introduction of the Collaborative Research Centre <i>AquaDiva</i>	
15:10	<b>Søren J. Sørensen</b>   University of Copenhagen The mobile gene pool of urban water systems	24
15:35	<b>James C. Stegen</b>   Pacific Northwest National Laboratory, Richland Organic matter thermodynamics mediate microbe-ecosystem integration	25
16:00	<b>Alexander J. Probst</b>   University of Duisburg-Essen Friend or foe? Microbial interactions in the deep biosphere	26
16:25	<b>Will Overholt</b>   Friedrich Schiller University Jena Groundwater chemolithoautotrophs are active, diverse, and metabolically flexible	27
16:40	<b>Stephanie Jurburg</b>   German Centre for Integrative Biodiversity Research Halle-Jena-Leipzig The archives are half-empty: a field-wide assessment of the availability of microbial community sequencing data	28
16:55	End of talks	

Chemical mediators in complex biosystems I		Page
11:00	<b>Georg Pohnert</b> / <b>Christian Hertweck</b>   Friedrich Schiller University Jena Short introduction of the Collaborative Research Centre <i>ChemBioSys</i>	
11:10	<b>Muriel Gugger</b>   Institut Pasteur, Paris Most Cyanobacteria are rich producers of natural products	32
11:35	<b>Helge B. Bode</b>   Goethe University Frankfurt One for all? Natural and synthetic libraries of natural products	33
12:00	<b>Ute Hentschel Humeida</b>   GEOMAR Helmholtz Centre for Ocean Research Kiel A phage protein aids bacterial symbionts in eukaryote immune evasion	34
12:25	<b>Christian Jogler</b>   Friedrich Schiller University Jena Planctomycetes – a bacterial phylum of ‘talented producers’?	35
12:40	<b>Xiaoyu Tang</b>   J. Craig Venter Institute, La Jolla An oral pathogen produces metabolites that interact with the oral microbiome	36
12:55	Break	
13:15	<b>Poster Session II</b> Visit the individual break-out rooms for discussions with the poster presenters	
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Chemical mediators in complex biosystems II		Page
14:45	<b>Matt Hutchings</b>   University of East Anglia, Norwich Antibiotic use and microbiome assembly in the nests of leafcutter ants	40
15:10	<b>Caroline Müller</b>   Bielefeld University Changes in phytometabolomes in response to endophytes and mycorrhiza	41
15:35	<b>Martin Polz</b>   University of Vienna Mobile genetic elements defend bacteria against phages	42
16:00	<b>Julie A. Z. Zedler</b>   Friedrich Schiller University Jena Towards sustainable biotechnology: revealing the true colours of cyanobacteria	43
16:25	<b>Pierre Stallforth</b>   Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute, Jena Evolution of natural products and natural product discovery	44
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12:40	<b>Jürgen Popp</b>   <i>Friedrich Schiller University Jena and Leibniz Institute of Photonic Technology, Jena</i> Raman spectroscopy - a powerful tool for biological and biomedical analysis	52
13:05	<b>Thomas Böttcher</b>   <i>University of Konstanz</i> Exploiting chemical interactions of human pathogens	53
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13:45	<b>Virtual Round Table Discussions</b> Opportunities of biotechnology for characterizing microbial interactions (Chair: Miriam Rosenbaum) Learning from nature: Ecologically motivated natural product discovery (Chair: Pierre Stallforth) Understanding microbiomes with *omics: Potential vs. Activity (Chair: Martin Taubert)	
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15:45	<b>Angela Sessitsch</b>   <i>Austrian Institute of Technology, Tulln</i> The plant microbiome: from lab to field	56
16:10	<b>Doreen Babin</b>   <i>Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Braunschweig</i> Harnessing soil-plant-microbe interactions for a more sustainable agriculture	57
16:35	<b>Matthew Agler</b>   <i>Friedrich Schiller University Jena</i> Inter-bacterial cross-feeding interactions with implications for plant health may arise rapidly during adaptation to the harsh, complex leaf environment	58
16:50	Closing remarks	
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