

Monday, 19th of March 2018

09:00 *Registration & Coffee*

10:30 **Welcome address**

Erika Kothe

Session – Chemical Ecology I // Chair: Wilhelm Boland

11:00 **Keynote**

Georg Pohnert, *Friedrich Schiller University Jena*

12:00 **Emilio Cirri**, *Friedrich Schiller University Jena*

Sex, diatoms, and biofilms: how bacteria modulate reproduction success of the diatom *Seminavis robusta*

12:20 **Stefan Kügler**, *Friedrich Schiller University Jena*

Iron-organic matter complexes accelerate microbial iron cycling

12:40 **Anne Tourneroché**, *Sorbonne Université*

Molecular interactions between endophytic fungi and bacteria associated with brown algae in the context of quorum sensing

13:00 Group Photo & Break

Session – Natural Products I // Chair: Jun Lin

14:00 **Keynote**

Pierre Stallforth, *Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena*
Natural Products from Predator-Prey Interactions

15:00 **Malem Flores**, *University of the Philippines Diliman, Quezon City*

Diversity, Bioactivity, and Secondary Metabolite Profiles of Bacteria Isolated from Mollusk *Truncatella* spp.

15:20 **Fatemeh Zahedi**, *Islamic Azad University, Tehran*

On the presence of peptide synthetase and polyketide synthase genes and the antimicrobial activity of three strains of *Scytonema* spp. isolated from different Climatic/Geographic Regions and Habitats

15:40 **Colette Kurth**, *Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena*

Bacterial-algal interactions mediated by siderophores

16:00 Poster Session I & Coffee Break

17:00 Workshop Session I

19:30 *Welcome Reception & Science Slam at the “Haus auf der Mauer”*



Tuesday, 20th of March 2018

Session – Pathogenesis I // Chair: Mohamed Hassan

09:00 **Keynote**

Ilse Jacobsen, *Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena*

Interactions between *Candida albicans* and intestinal bacteria:
Foes or brothers in arms?

10:00 **Iordana Shopova**, *Friedrich Schiller University Jena*

Neutrophils use intelligent bullets to kill *Aspergillus fumigatus* from distance

10:20 **Wolfgang Vivas**, *Septomics Research Centre, Jena*

Candida albicans quorum sensing molecule Farnesol modulates human dendritic cells function through PPAR γ activation

10:40 **Murad Ishnaiwer**, *Palestine Polytechnic University, Hebron*

Isolation and characterization of a bacteriophage that hosts on Avian-pathogenic *Escherichia coli* (APEC)

11:00 **Philipp Brandt**, *Friedrich Schiller University Jena*

The role of *Candida albicans* protein kinases in environmental pH modulation and regulation of biofilm formation

11:20 Coffee Break



Session – Environment I // Chair: Iuliia Ferling	
11:50	Keynote Colomban de Vargas , <i>Roscoff Marine Station, France</i>
12:50	Silvia Novohradská , <i>Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena</i> Fungus-feeding amoeba <i>Protostelium aurantium</i> identifies the survival strategies of <i>Candida parapsilosis</i> during predatory-prey interactions
13:10	Prasad Aiyar , <i>Matthias Schleiden Institute of Genetics, Bioinformatics and Molecular Botany, Jena</i> Disruption of algal Ca ²⁺ homeostasis by antagonistic bacteria
13:30	Break
Session – Systems Biology I // Chair: Luis Peña	
14:30	Keynote Marnix Medema , <i>Wageningen University, Netherlands</i> Computational approaches to natural product discovery
15:30	Francesco Pezzini , <i>German Centre for Integrative Biodiversity Research (iDiv), Leipzig</i> TriP - Triangles Profile tool for nucleosome calling
15:50	Alexander Tille , <i>Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena</i> Mathematical model of the factor H mediated self- non-self discrimination by the complement system
16:10	Naim Al-Zaben , <i>Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena</i> AMITv2: An Enhanced Automated Segmentation and Tracking Framework
16:30	Poster Session II & Coffee Break
17:30	Workshop Session II
19:30	<i>Conference Dinner at the “Landgrafen Jena”</i>



Wednesday, 21st of March 2018

Session – Chemical Ecology II // Chair: Remington X. Poulin

09:00 **Keynote**

Christine Beemelmans, *Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena*
Chemical and biological lessons from symbiotic microorganisms

10:00 **Simona Fenizia**, *Friedrich Schiller University Jena*

Identification, Physiological and Ecological Function of Zwitterionic Metabolites in Marine Diatom

10:20 **Lachlan Dow**, *Constance University*

Slimy signals: Bacterial infochemicals induce biofilm formation in the diatom *Achnantheidium minutissimum*

10:40 **Tilottama Mazumdar**, *Max Planck Institute for Chemical Ecology, Jena*

Stress survival strategies of the dominating bacteria *Enterococcus mundtii* in the gut of *Spodoptera littoralis*

11:00 Coffee Break



Session – Natural Products II // Chair: Benjamin Hanf	
11:30	Keynote Uffe Mortensen , <i>Technical University of Denmark</i> Tools for Exploiting Fungi as Production and Discovery Platforms
12:30	Martin Klapper , <i>Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena</i> Multi-specific and Promiscuous Monomodular Non-Ribosomal Peptide Synthetases
12:50	Huiyun Peng , <i>Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena</i> Elucidating and Mimicking Evolutionary Processes in Modular Type I Polyketide Synthases
13:10	Break
Session – Environment II // Chair: Falk Hillmann	
14:10	Keynote Anna Gorbushina , <i>Free University of Berlin – Materials and the Environment Department BAM</i> Subaerial Biofilms (SABs)
15:10	Iuliia Ferling , <i>Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena</i> Antagonistic interaction of <i>Aspergillus fumigatus</i> and soil amoeba
15:30	Felix Wesener , <i>Free University of Berlin</i> The anticipation of stress affects the community structure of soil fungi
15:50	Jenny Fabian , <i>Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin</i> Bringing light into the dark: how algae DOC alters the degradation of leaves by fungi and bacteria
16:10	Swatantar Kumar , <i>Friedrich Schiller University Jena</i> Glimpse into autotrophic denitrification by microbial consortia from pristine groundwater
16:30	<i>Social Activities</i>



Thursday, 22nd of March 2018

09:00 Workshop Session III

10:00 Coffee Break

Session – Pathogenesis II // Chair: Felicia Stanford

10:20 **Keynote**

Hubertus Haas, *Medical University of Innsbruck, Austria*

Iron homeostasis – a key hub in virulence of *Aspergillus fumigatus*

11:20 **Marina Pekmezovic**, *Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena*

Candida glabrata epithelial cell damage

11:40 **Sravya Sreekantapuram**, *Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena*

Qualitative and quantitative dynamics of host-pathogen interactions in an avian whole blood model

12:00 **Sofia Siscar Lewin**, *Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena*

Studying the role of CgMIP1 in the evolution of *Candida glabrata* during adaptation to the human host

12:20 **Alessandra Marolda**, *Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena*

Different *Candida* spp. induce distinct patterns of activation during NK cell - Dendritic cell crosstalk

12:40 Coffee Break

Session – Systems Biology II // Chair: Francesco Pezzini

13:10 **Keynote**

Gianni Panagiotou, *Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena*

Lifestyle – Microbiota Interactions as Moderators of Host Metabolism

14:10 **David Carrasco Flores**, *Matthias Schleiden Institute of Genetics, Jena*

Establishing model systems for studying flagellate green microalgae in the marine environment

14:30 **Shylesh Murthy**, *Padmashree Institute of Management and Science, Bengaluru*

Establishing an in-silico-herbal Remedy of Prostate Cancer from phytocompounds of *Centella asiatica* and *Annona muricata*

14:50 **Poster Prizes & Closing Remarks**

Axel Brakhage

15:20 *End of the Event*

