

11th ILRS Symposium

May 7-8, 2018

HKI-Center for Systems Biology of Infection, Jena

Lecture hall Louis Pasteur



Monday, May 7, 2018

13:00	Opening Prof. Zipfel	
	Session 1 (Chair: Veit Hänsch)	
13:15	Plenary Lecture Matt Agler	Whose microbiome is it? Keystone microorganisms structure and stabilize plant-associated microbial communities
14:00	Vandana Arakandy	Metabolic cross talk between host and <i>S. aureus</i> during chronic osteomyelitis
14:20	Sophia Ruben	Ahr1 and Tup1 contribute to the regulation of the ECE1 gene in <i>Candida albicans</i>
14:40	Poster Talks 1	
15:00	Coffee Break	
	Session 2 (Chair: Therese Horch)	
15:30	Juan Camilo Castrillon Betancur	The impact of the receptors of the Dectin-1 cluster in fungal and bacterial infections
15:50	Marie Röcker	Generation of a stomatin-knockout macrophage cell line by advanced gene editing to analyze host-pathogen interactions
16:10	Lia Ivanova	The impact of redox regulation on the stress response of <i>Aspergillus fumigatus</i> and its role in host-pathogen interaction
16:30	Ramona Rudnick	FHR5 activates complement on malondialdehyde-acetaldehyde (MAA) surfaces
17:00	Coffee Break	
17:20	Osama Elshafee	Dissection of the <i>Candida albicans</i> lipase gene family
17:40	Plenary Lecture Jonathan Gershenson	It makes scents to stay together: Volatile-mediated interactions of conifer bark beetles and their fungal symbionts
18:25	Poster Talks 2	
19:00	Poster Session and dinner	

Tuesday, May 8, 2018

Session 3 (Chair: Flora Riviuccio)		
09:00	Johann Kufs	Identification of the biosynthetic gene cluster for the sphingolipid inhibitor sphingofungin in <i>Aspergillus fumigatus</i>
09:20	Claudius Lenz	Polyene pigment production in the basidiomycete <i>Laetiporus sulphureus</i> by an iterative highly reducing polyketide synthetase
09:40	Jun Lin	Quick assembly and fluorescence-screening method scaled up biosynthesis of psilocybin by polycistronic gene expression in filamentous fungi
10:00	Luis Pena Ortiz	Characterization of an L-lactate dehydrogenase putatively related to a cryptic cofactor in <i>Mycobacterium smegmatis</i>
10:20	Coffee Break	
Session 4 (Chair: Maria Dell)		
10:40	Bastian Seelbinder	Metagenomics - New Challenges for understanding functional changes in the Microbiome
11:00	Alexander Tille	Mathematical model of the factor H mediated self and non-self discrimination by the complement system
11:20	Maria Stroe	Silent gene cluster characterisation in <i>Aspergillus fumigatus</i>
11:40	Coffee Break	
12:00	Jana Boysen	The fungal peroxiredoxin Asp f3 is essential for virulence of <i>Aspergillus fumigatus</i> and protects against protein oxidation by reactive oxygen species
12:20	Iuliia Ferling	DHN-melanin in action: Deciphering <i>Aspergillus fumigatus</i> infection in soil amoeba
12:40	Plenary Lecture Sven Hammerschmidt	The interaction of pathogenic bacteria with platelets
13:25	Final remarks	
13:30	Lunch and end of the event	

Posters

Poster Talks 1

P1	Prasad Aiyar	Disruption of algal Ca ²⁺ homeostasis by antagonistic bacteria
P2	Pol Alonso	The invisible allies: microbes within the gut of the forest cockchafer
P3	Marc-Benjamin Aurin	How do phytoplasmas generate 'zombie plants'? Interaction of the bacterial effector protein SAP54 with floral homeotic proteins
P4	Marco Blickensdorf	Agent- based modeling of <i>Aspergillus fumigatus</i> infection in mouse alveoli
P5	Stefanie Dietrich	Automated image analysis methods for the quantification of cell damage and adherent fungal cells
P6	Shanshan Du	PspC from <i>Streptococcus pneumoniae</i> : a central and highly variable immune evasion protein
P7	Jens Esken	On the traces of a unique bacterial retentive long-term memory effect
P8	Ruman Gerst	Fast and efficient fully automated processing of lightsheet microscopy data to evaluate the glomerular number in kidneys
P9	Luke-Donald Halder	Human blood monocytes from anti-inflammatory vesicles in response to pathogenic <i>Candida albicans</i>
P10	Benjamin Hanf	Adaptation of the filamentous fungus <i>Aspergillus nidulans</i> to low temperature stress
P11	Mohamed Hassan	Mucormycosis-alveolar macrophages interaction: surface proteins drive recognition and phagocytosis

Poster Talks 2

P12	Martin Klapper	Multispecific and Promiscuous Monomodular Nonribosomal Peptide Synthetases
P13	Toni Krause	How is the terpenoid biosynthesis modified by different expression levels of isopentenyl diphosphate isomerase in transgenic gray poplar (<i>Populus canescens</i>) and Norway spruce (<i>Picea abies</i>) plants?
P14	Petra Martinac	Investigation of the Role of Fam134 Isoforms in Primary Murine Hepatocytes in Autophagy
P15	Sarah Niehs	Holrhizin, a novel lipopeptide produced by endosymbiotic <i>Burkholderia rhizoxinica</i> – biosurfactant and role in reinfection of the fungal host?
P16	Maria Prauße	Predictive Virtual Infection Modeling of Microbial Immune Evasion in Human Whole-Blood
P17	Annica Pschibul	Degradation of fungal dihydroxynaphthalene type melanin: a Proteomics approach
P18	Nadine Reiher	<i>Candida albicans</i> CRASP11 binds both dectin-1 and dectin-2 and induces dendritic cell maturation
P19	Christin Reimer	High G-U wobble content attenuates protein translation in <i>Dictyostelium discoideum</i>
P20	Mareike Scheven	The monothiol glutaredoxin GrxD interacts with the iron regulator HapX and CmtA, a protein with yet unknown function, in <i>Aspergillus fumigatus</i>
P21	Volha Skrahina	<i>Candida albicans</i> and trace metal
P22	Philipp Stephan	Mechanistic investigations of subdomain swapped adenylation domains