



PROGRAM DAY 1

SYSTEMS APPROACHES IN INFECTION AND IMMUNOLOGY

Wednesday November 9		
12.00-13.00	Registration	
	Session 1	Chair: Oliver Fackler
13.00-13.10	Welcome	
13.10-13.40	Thomas Höfer	Progenitor effector-hierarchies in acute and chronic T cell responses
13.40-14.10	Hedda Wardemann	Single-cell based antigen-receptor gene and function analyses of the human immune response to a complex pathogen
14.10-14.40	Alexander Dalpke	Relationship between airway dysbiosis, inflammation and lung function in patients suffering from cystic fibrosis
14.40-15.20	Coffee Break	
	Session 2	Chair: Alessia Ruggieri
15.20-15.50	Carl Herrmann	Machine-learning approaches to the identification of disease signatures
15.50-16.05	Melina Vallbracht	Structural insight into the Ebola virus nucleocapsid assembly cascade by in-cell cryo-correlative light and electron microscopy
16.05-16.20	Venera Weinhardt	Revealing the effect of viruses in host cells by soft x-ray tomography
16:20-16.50	Ulrich Schwarz	Physical barriers for virus replication and spread
16.50-17.05	Samy Sid Ahmed	Mechanisms of environmental restriction to HIV-1 infectivity
17.05-18.00	Discussion in BQ Foyer	



PROGRAM DAY 2

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Thursday November 10		
	<i>Session 3</i>	Chair: Frederik Graw
13.00-13.30	Georg Zeller	Computational identification of gut microbiota signatures of colorectal cancer
13.30-14.00	Nassos Typas	High-throughput approaches in microbiome and antibiotic research
14.00-14.15	Freddy Frischknecht	Genetically attenuated malaria parasites as experimental vaccines
14.15-14.45	Felix Hartmann	Multiplexed Imaging of Cellular Metabolism in Single-Cells and Tissues
14.45-15.25 Coffee Break		
	<i>Session 4</i>	Chair: Hedda Wardemann
15.25-15.55	Frederik Graw	Deciphering infection and immune processes by data-driven modelling
15.55-16.10	Marco Binder	Signaling Dynamics of the Cell-intrinsic Antiviral Response
16.10-16.25	Soheil Talemi	Host factors are the key regulators of heterogeneity in dengue virus replication at the single-cell level
16:25-16.55	Alessia Ruggieri	Stress in a droplet: from translation repression to stress granule phase separation
16.55-17.10	Sadaf Pashapour	Droplet-based microfluidics for the generation of extracellular matrix protein-based microcapsules
17.10-18.00	Discussion in BQ Foyer	