Robert Koch Symposium "Functional Molecular Infection Epidemiology"

Organized by DFG-GRK 1673 (FU Berlin) and RoKoDoKo of Robert Koch Institute, Berlin

Wednesday, April 6 2016

Venue: Lecture Hall RKI, Nordufer 20, 13353 Berlin-Wedding

from 08:30	Coming in
09:00 – 09:10	WELCOME **Importance of Graduate / Research Training Groups for Research Institutions** Prof. Dr. Lothar H. Wieler (Robert Koch-Institut)
09.10 – 09.40	KEYNOTE LECTURE **Evolution of pathogen-host interaction dynamics and survival mechanisms** Prof. Dr. Niyaz Ahmed (University of Hyderabad, India)
09:40-11:20	**Session 1: New tools in infectious disease research, applications in virology** (Chair: Swathi Banthiya & Simon Tausch)
20 min	A 3 dimensional primary gall bladder cell culture system to study Salmonella induced transformation. (Ludovico Sepe, MPI Infection Biology)
20 min	Infection studies with Cowpox virus in three-dimensional skin equivalents. (Markus Neumann, RKI)
20 min	Proteasome inhibition alters cell viability and inhibits Cowpox virus replication. (Marica Grossegesse, RKI)
20 min	Identification of pathogen sequences in NGS datasets. (Andreas Andrusch, RKI)
20 min	Ultrahigh-multiplex PCRs for next-generation sequencing-based virus identification. (Annika Brinkmann, RKI)
11:20-12:00 am	**Coffee break and Poster Session I**
12:00 – 13:40	**Session 2: Immunology and epidemiology with focus on protozoa and parasites** (Chair: Nele Reeg & Andrea Sanchini)
20 min	Blow-flies as a tool to obtain insights in the epidemiology of *Bacillus cereus* biovar *anthracis*. (Constanze Hoffmann, RKI)
20 min	Malaria in Mangalore, India: a case-control study. (Prabhanjan Gai, Institute of Tropical Medicine & International Health, Charité)
20 min	Immunogenetics of lymphatic filariasis: DNA polymorphism in PD-L2 and IL-10R genes. (Venugopal Gopinath, Institute of Immunology, Vet. Med., FU)
20 min	Th2/Th1 hybrid cells: A multifunctional subset in nematode infected patients. (Cristin Bock, Institute of Immunology, Vet. Med., FU)
20 min	A Trichuris suis secretory protein interferes with murine experimental airway hyperreactivity. (Katja Balster, Institute of Immunology, Vet. Med., FU)
13:40 – 14:30	**Lunch break**
14:30 - 16:10	**Session 3: Bacterial diseases: genetic variation analysis & infections of the lung** (Chair: Markus Neumann & Sajad Sofi)
20 min	Cytosolic DNA sensing in bacterial lung infection: mechanism and impact of host gene variations. (Sebastian Ruiz - Moreno, Dept. of Internal Medicine/Infectious Diseases and Pulmonary Medicine, Charité)
20 min	SNP in C-type Lectin Receptors and their Pathways for Susceptibility towards Pulmonary Tuberculosis in Hyderabad. (Surabhi Goyal, Inst. of Microbiology and Hygiene, Charité)
20 min	Using Full Genome SNP Analysis as a tool to investigate the Epidemiology and Ecology of *Bacillus cereus* biovar *anthracis*. (Fee Zimmermann, RKI)
20 min	A genetic variation of TLR4 is associated with TB risk in India - Evidence for mycobacterial RNA recognition by a TLR4/8 heterodimer. (Shruthi Thada, Inst. of Microbiology and Hygiene, Charité)
20 min	Mycobacterium *avium hominissuis*: the importance of genetic diversity. (Andrea Sanchini, RKI)
16:10 – 17.00	**Coffee break and poster session II**
17:00 – 18:20	**Session 4: Molecular principles of and answers to bacterial infections** (Chair: Katja Balster & Andre Frühauf)
20 min	Suppression of the heat sensitive ΔgpsB phenotype by mutations affecting the initial step of peptidoglycan biosynthesis in Listeria monocytogenes. (Jeanine Rismondo, RKI)
20 min	Guanine-rich sequence-binding factor 1 binds to G-quadruplex structures in RNA. (Sajad Sofi, Inst. of Biochemistry, Charité)
20 min	Potential role of pathogen lipoxygenase for Pseudomonas aeruginosa infections. (Swathi Banthiya, Inst. of Biochemistry, Charité)
20 min	pH-dependent regulation of PdeN, a cyclic-di-GMP-specific phosphodiesterase with a N-terminal periplasmic CSS domain in *Escherichia coli*. (Martin Lorkowski, Inst. of Biology/Microbiology, HU)
18:25	**farewell note, dinner**