Leopoldina-Symposium Environmental Education of the Immune System in Health and Inflammation Organizers:

Leibniz-Network Immune Mediated Diseases and Leibniz ScienceCampus Chronic Inflammation

August 29. - 30, 2019 Berlin-Brandenburgische Akademie der Wissenschaften Markgrafenstr. 38, 10117 Berlin

Program (as of Aug 19,2019)

je talk 20 + 5 min Thursday, 29.08.2019

WELCOME	Leopoldina, Leibniz, DRFZ
Session I (9:00 - 10:15)	
The Immune System in Context of its Body	
Chairs: Anja Hauser, Thomas Kamradt	
Irmgard Förster, Bonn	Environmental control of immune homeostasis and cellular metabolism by the AhR/AhRR pathway
Claudia Waskow, Jena	Cross communication of hematopoietic cells of adult and embryonic origin.
Sander Bekeschus, Greifswald	ROS as immunomodulatory agents
Andreas Diefenbach, Berlin	tba

Coffee break (10:40 - 11:15)

Session II - Part I (11:15 - 12:55)	
Immune Imprinting by Nutrition and Lifestyle	
Chairs: Reinhold Schmidt, Jean Krutmann	
Tilman Grune, Potsdam	Immune System and Nutrition
Julia Polansky-Biskup, Berlin	Epigenetics in T cell differentiation: From genome-wide signatures to local regulators and their targeted manipulation.
Charlotte Esser, Düsseldorf	Skin barrier and nutrition – role of the aryl hydrocarbon receptor
Dietmar Krautwurst, München	Nutrition-related immune cell priming

Lunch Break (12:55 - 14:30)

Session II - Part II (14:30 - 15:45)	
Chairs: Antigoni Triantafyllopoulou, Klaus Rajewsky	
Carsten Watzl, Dortmund	The effect of acute and sustained beta2-adrenergic receptor stimulation on the function of Natural Killer cells
Susanne Krauss-Etschmann, Borstel	Early life environment in shaping risk for respiratory disease and potential dietary intervention
Christoph Scheiermann, Geneva and Mmünchen	Circadian rhythms in the immune response

Coffee break (15:45 - 16:10)

Session III (16:10 - 17:55)	
Education of the Immune System by Microbic	ota
Chairs: Chiara Romagnani, Heribert Hofer	
Ivaylo I. Ivanov, New York	Microbiota-epithelium interactions educate host adaptive immunity
Hyun-Dong Chang, Berlin	Microbiota controlling TGF-β and IgA expression in the intestinal mucosa
Andrew Macpherson, Bern	Distinct mucosal or systemic responses to non-pathogenic intestinal microbes build the B cell repertoire and its functional responsiveness
Alexander Scheffold, Kiel	Shaping of the human T cell repertoire by the microbial environment: mind the "-myces" !

Science Slam (18:00 - 19:00) - public outreach event (7 talks, 7 minutes each)
Postersession and Get Together (19:00 - 21:00)
Poster Committee: Andrey Kruglov, Chiara Romagnani

Friday, 30.08.2019	
Kourrete Lesture (8:20 0:20)	
Keynote Lecture (8:30 - 9:30)	
Chair: Andreas Radbruch	
Lorenzo Moretta, Rome	tba
Session IV (9:00 - 10:45)	
Pathogens and Chronicity	
Chairs: Stefan Ehlers, Bimba Hoyer	
Marcus Altfeld, Hamburg	Sex differences in inflammation during chronic HIV-1 infection
Christoph Hölscher, Borstel	Inflammation in tuberculosis: friend or foe of whom?
Dietmar Zehn, München	In TOX ication causes T-cell exhaustion in chronic infection.
Coffee break (10:45 - 11:30)	
Session V (11:30 - 12:45)	
Therapies - One Health	
Chairs: Kristina Lorenz, Angela Zink	
Falk Hiepe	tba
Gülsah Gabriel	Current challenges for science and healthcare posed by emerging influenza viruses
Nils Blüthgen	Modelling signalling in the intestine and colon cancer, cell by cell
Lessons learned and poster award (12:45	j - 13:00)
Andreas Radbruch	DRFZ Berlin
Fare well Soup	
GENERAL ASSEMBLY (13:30 - 15:30)	
ScienceCampus Chronic Inflammation + Leibniz-Network Immune Mediated Disea	ses