

Development of Tissue- and Pathogen-specific Cellular Innate Immunity

International Symposium
September 27 – 29, 2017
Freiburg, Germany

SCIENTIFIC PROGRAM

Wednesday, 27 September 2017	
12:00 – 12:55	<i>Live Cell Imaging</i> with Andreas Müller (Magdeburg, Germany), Eric Hummel (Munich, Germany) <i>Workshop sponsored by Zeiss</i>
13:10 – 13:20	Introduction
<u>LUNG AND INTESTINE</u> <i>Chairs: Jules Hoffmann, Marco Prinz</i>	
13:20 – 13:50	Steffen Jung (Rehovot, Israel) <i>Macrophage strategies in gut and brain</i>
13:50 – 14:20	Manfred Kopf (Zurich, Switzerland) <i>PPARγ in lung immunity</i>
14:20 – 14:35 - selected talk -	Isabella Rauch (San Francisco, USA) <i>NAIP-NLRC4 inflammasomes coordinate intestinal epithelial cell expulsion with eicosanoid and IL-18 release via activation of Caspase-1 and -8</i>
14:35 – 15:05	Georg Gasteiger (Freiburg/Würzburg, Germany) <i>Development and differentiation of tissue-resident memory T cells and innate lymphoid cells</i>
15:05 – 15:35	Gioacchino Natoli (Milano, Italy) <i>Transcriptional and chromatin-mediated control of inflammatory response</i>
15:35 – 16:00	Break

Scientific Program

<u>MYCOBACTERIA AND INTRACELLULAR MICROORGANISMS</u>	
<i>Chairs: Gennaro De Libero, Angelika Rambold</i>	
16:00 – 16:30	Andrea Ablasser (Lausanne, Switzerland) <i>Cytosolic DNA sensing during infection and disease</i>
16:30 – 17:00	Philipp Henneke (Freiburg, Germany) <i>Origin and function of giant macrophages in mycobacterial infections</i>
17:00 – 17:15 - selected talk -	Diego López León (Fribourg, Switzerland) <i>Granzyme B acts as an innate immune barrier by specifically attenuating bacterial virulence</i>
17:15 – 17:45	Petr Broz (Basel, Switzerland) <i>Sensing the enemy within: innate immune detection of intracellular bacteria</i>
17:45 – 18:15	Lalita Ramakrishnan (Cambridge, United Kingdom) <i>How mycobacterial phenolic glycolipids subvert macrophages</i>
18:15 – 18:40	Break
<u>KEY NOTE</u>	
<i>Chair: Philipp Henneke</i>	
18:40 – 19:40	Sarkis Mazmanian (Pasadena, USA) <i>Immune modulation by the gut microbiome during intestinal inflammation</i>
19:40	Science (Posters), Schnitzel, Spirits

Scientific Program

Thursday, 28 September 2017	
<u>SKIN AND SOFT TISSUE</u>	
<i>Chairs: Roland Elling, Marina Freudenberg</i>	
08:30 – 09:00	Victor Nizet (La Jolla, USA) <i>Streptococcal manipulation of host innate immune cell responses</i>
09:00 – 09:30	Sandrine Henri (Marseille, France) <i>Complexity of the dermal myeloid compartment: from phenotype to function</i>
09:30 – 09:45 - selected talk -	Pavel Kovarik (Vienna, Austria) <i>Scheduling the termination of anti-bacterial neutrophil engagement by posttranscriptional gene expression control</i>
09:45 – 10:15	Tim Lämmermann (Freiburg, Germany) <i>Innate immune cell swarming at sites of inflammation and infection</i>
10:15 – 10:45	Florent Ginhoux (Singapore, Singapore) <i>Ontogeny and differentiation of tissue-resident macrophages</i>
10:45 – 11:10	Break
<u>CENTRAL NERVOUS SYSTEM</u>	
<i>Chairs: Melanie Meyer-Luehmann, Elke Krüger</i>	
11:10 – 11:40	Marco Prinz (Freiburg, Germany) <i>Functions of myeloid cells in the CNS</i>
11:40 – 11:55 - selected talk -	Karthiga Thavachelvam (Aarhus, Denmark) <i>Recombinant OAS restricts HIV infection by altering the CCR5 receptor at the protein level – a novel vaginal microbicide</i>
11:55 – 12:25	Josef Priller (Berlin, Germany) <i>Innate immunity in neuropsychiatric diseases</i>
12:25 – 12:55	Ido Amit (Rehovot, Israel) <i>Single cell genomics: An immunologist guide to the immuneiversum</i>
12:55 – 14:15	Break
13:05 – 14:05	<i>Genome and epigenome hacking with CRISPR-Cas9</i> with Ralf Kuehn (Berlin, Germany), Claudio Mussolino (Freiburg, Germany) and Benoit Giquel (London, UK) <i>Workshop sponsored by Addgene</i>

Scientific Program

<u>MONOCYTES AND DENDRITIC CELLS</u>	
<i>Chairs: Kate Fitzgerald, Michael Sixt</i>	
14:15 – 14:45	Veit Hornung (Munich, Germany) <i>Inflammasome signalling in the human system</i>
14:45 – 15:00	Roland Elling (Freiburg, Germany) <i>Regulation of innate inflammatory responses through the long noncoding RNA lincRNA-COX2</i>
15:00 – 15:15 - selected talk -	Dorothee Viemann (Hannover, Germany) <i>S100 alarmin-induced innate immune programming protects newborn infants from sepsis</i>
15:15 – 15:45	Martin Guilliams (Ghent, Belgium) <i>The macrophage niche: in search of the tissue-specific signals controlling macrophage development</i>
15:45 – 16:15	Caetano Reis e Sousa (London, United Kingdom) <i>Sensing of tissue damage by dendritic cells</i>
16:15 – 16:45	Break
<u>PARASITES</u>	
<i>Chairs: Georg Häcker, Lalita Ramakrishnan</i>	
16:45 – 17:15	Douglas Golenbock (Worcester, USA) <i>Trained immunity in plasmodium infections</i>
17:15 – 17:30 - selected talk -	Pedro H. V. Saavedra (Gent, Belgium) <i>Familial mediterranean fever mutations lift the obligatory requirement for microtubules in pyrin inflammasome activation</i>
17:30 – 18:00	Edward Pearce (Freiburg, Germany) <i>Metabolic regulation of innate immune cell activation</i>
18:00 – 18:15 - selected talk -	David Sancho (Madrid, Spain) <i>Mincle/Syk axis in dendritic cells orchestrates intestinal immune homeostasis via the regulation of IL-17 and IL-22</i>
18:15 18:45	Judith Allen (Manchester, United Kingdom) <i>Tissue-specific custodians during helminth infection and injury</i>
20:00	Social event with awards ceremony (Wodan-Halle)

Scientific Program

Friday, 29 September 2017	
<u>HEART, LUNG AND VESSELS</u>	
<i>Chairs: Ingo Hilgendorf, Judith Allen</i>	
09:00 – 09:30	Andres Hidalgo (Madrid, Spain) <i>Phagocytic macrophages at the heart's core</i>
09:30 – 10:00	Michael Sieweke (Marseille, France) <i>Harnessing macrophage self renewal</i>
10:00 – 10:15 - selected talk -	Catharina Svanborg (Lund, Sweden) <i>Good versus bad inflammation – therapeutic manipulation of innate immunity in bacterial infection</i>
10:15 – 10:45	Eicke Latz (Worcester, USA / Bonn, Germany) <i>Trained immunity in atherogenesis</i>
10:45 – 11:10	Break
<u>MACROPHAGE AND DENDRITIC CELL REGULATION</u>	
<i>Chairs: Philipp Henneke, Edward Pearce</i>	
11:10 – 11:40	Katherine Fitzgerald (Worcester, USA) <i>Regulation of inflammatory responses in macrophages</i>
11:40 – 12:10	Olaf Groß (Freiburg, Germany) <i>Role of metabolism in NLRP3 inflammasome activation and anti-cancer effects of Imiquimod</i>
12:10 – 12:25 - selected talk -	Ezra Aksoy (London, United Kingdom) <i>The p110δ PI3K isoform is a homeostatic regulator of NOD2-mediated gut tolerance to opportunistic pathogens</i>
12:25 – 12:55	Michael Sixt (Klosterneuburg, Austria) <i>A new mode of force transduction in amoeboid migrating cells</i>
12:55 – 13:25	Luke O'Neill (Dublin, Ireland) <i>Krebs cycle reprogrammed for cytokines</i>
13:30 – 14:30	<i>Meet the Editor</i> with Domenico Mavilio, J. of Leukocyte Biology; Bruce Koppelman, Cell Press and Achim Breiling, EMBO Press