

1ST IMMUNOLOGY & INFLAMMATION (I & I) CONFERENCE

FEBRUARY 24 - 26, 2019

Sunday, February 24th, 2019

Langenbeck-Virchow-Haus
Luisenstraße 58/59, 10117 Berlin

13:30 - 14:45	Registration & Coffee
14:45 - 15:00	Welcome Klaus Rajewsky
15:00 - 16:00	Keynote Lecture Dan Littman , NYU School of Medicine Th17 cells and inflammation: a new kid on the block

SESSION I: LINEAGE DETERMINATION IN THE HEMATOPOIETIC SYSTEM

Chair: **Mathias Heikenwälder**, German Cancer Research Center in the Helmholtz Association

16:00 - 16:40	David Kent , Cambridge Stem Cell Institute Understanding blood stem cell clonal dynamics in ageing and disease
16:40 - 17:00	Short talk Valentyn Oksenyich , Norwegian University of Science and Technology Acetyltransferases Gcn5 and PCAF regulate B cell development
17:00 - 17:20	Coffee break
17:20 - 18:00	Hans-Reimer Rodewald , German Cancer Research Center Fate mapping and barcoding of hematopoiesis
18:00 - 18:20	Short talk Christopher Kressler , German Rheumatism Research Center Hit-and-run epigenetic editing of a single enhancer converts naive and memory T cells into FOXP3 expressing T cells
18:20 - 19:00	Sten Linnarsson , Karolinska Institutet Inferring in vivo cell differentiation dynamics using RNA velocity

Monday, February 25th, 2019

Max Delbrück Communications Center (MDC.C)

Robert-Rössle-Straße 10, 13125 Berlin

SESSION II: ANTIBODY DIVERSIFICATION AND RECEPTOR FUNCTION

Chair: **Michela Di Virgilio**, Max Delbrück Center for Molecular Medicine in the Helmholtz Association

09:00 - 09:40	Frederick Alt , Boston Children's Hospital The fundamental role of chromatin loop extrusion in antibody diversification
09:40 - 10:00	Short talk Kathrin de la Rosa , Max Delbrück Center for Molecular Medicine Antibody diversification through non-VDJ insertions
10:00 - 10:40	David Schatz , Yale School of Medicine Transposon molecular domestication and the evolution of the RAG recombinase
10:40 - 11:00	Coffee Break
11:00 - 11:40	Michael Reth , Max Planck Institute of Immunobiology and Epigenetics / University of Freiburg Molecular requirements for antigen sensing by the adaptive immune system
11:40 - 12:00	Short talk Qiang Pan-Hammarström , Karolinska Institutet AID dependent- and independent- mechanisms of mutagenesis in human B-cell lymphomas
12:00 - 12:40	Gabriel Victora , The Rockefeller University Clonal dynamics of recall germinal centers

12:45 - 14:45 Poster session over lunch

SESSION III: NEUROINFLAMMATION

Chair: **Martin Korte**, Helmholtz Center for Infection Research

14:45 - 15:25	Oleg Butovsky , Brigham and Women's Hospital The Role of Apoe-TGFB Signaling in Microglia Regulation in Neurodegeneration
15:25 - 16:05	Joseph El-Khoury , Massachusetts General Hospital Reciprocal interactions between Microglia and Gliomas
16:05 - 16:45	Bente Finsen , University of Southern Denmark Proteomic profiling of CNS myeloid cells and CNS tissues from APP/PS1 mice and Alzheimers disease cases
16:45 - 17:05	Coffee Break
17:05 - 17:45	Marco Prinz , University Medical Centre Freiburg Heterogeneity of myeloid cells in the CNS
17:45 - 18:25	Carla Shatz , Stanford University Surprise at the synapse: unexpected role for MHC class I in neurons
18:30 - 21:00	Reception

Tuesday, February 26th, 2019

Max Delbrück Communications Center (MDC.C)

Robert-Rössle-Straße 10, 13125 Berlin

SESSION IV: INNOVATIVE IMMUNE THERAPIES

Chair: **Uta Höpken**, Max Delbrück Center for Molecular Medicine in the Helmholtz Association

09:00 - 09:40	Christopher Garcia , Stanford University School of Medicine Exploiting immune receptor structure and mechanism to open new therapeutic doors
09:40 - 10:00	Short talk Alexander Scheffold , Kiel University Modulation of human Th17 cells via cross-reactivity to an intestinal commensal
10:00 - 10:40	Carl June , Perelman School of Medicine at the University of Pennsylvania Next Generation CAR T cells
10:40 - 11:00	Coffee Break
11:00 - 11:40	Cliona M Rooney , Baylor College of Medicine Providing signal 3 for Immunotherapeutic T-cells
11:40 - 12:00	Short talk Xiaojing Chen , Max Delbrück Center for Molecular Medicine Human TCR-MHC coevolution after divergence from mice includes increased non-template encoded CDR3 diversity
12:00 - 12:30	Andreas Strasser , Walter and Eliza Hall Institute of Medical Research Learning the rules of programmed cell death to develop novel cancer therapies
12:30 - 12:50	Short talk Stephan Mathas , Max Delbrück Center for Molecular Medicine Checkpoint inhibition in classical Hodgkin lymphoma
12:50 - 13:00	Concluding remarks Michela Di Virgilio & Klaus Rajewsky
13:00	Departure