NK2019 Programme
30/09/2019 - 03/10/2019

Monday 30.09.2019

14:00 - 19:00  Registration open
17:00 - 17:30  Welcome
17:30 - 18:30  Chairperson: Markus Ollert
   **Keynote Lecture: Jean-Laurent Casanova:** “Toward a genetic theory of childhood infectious diseases”
19:00  Welcome Cocktail

Tuesday 01.10.2019

08:30 - 10:00  **SESSION 1 - NK Cell Receptors and Education**
   **Chairpersons:** Thierry Walzer, Domenico Mavilio
08:30 - 8:50  Katharine Hsu: “New insights to old ideas in NK education”
08:50 - 9:10  Jacques Zimmer: “Imprint of education on activated natural killer cells”
09:10 - 9:20  Selected short talk 1: Sytse Piersma: “Activation Receptor-dependent IFNγ Production by NK Cells is Controlled by Transcription, Translation and the Proteasome”
09:20 - 9:40  Peter Parham: “Interactions of KIR, HLA class I and Disease”
09:40 - 10:00 Karl-Johan Malmberg: “Functional diversification of human NK cells through lysosomal maturation and remodeling”
10:00 - 10:30  Coffee Break
10:30 - 12:00  **SESSION 2 - NK Cell Development and Differentiation**
   **Chairpersons:** Aharon Freud, Cynthia Dunbar
10:30 - 10:50  Catherine Blish: “Tuning the human natural killer response to viral infection”
10:50 - 11:00  Selected short talk 2: Bethany Mundy-Bosse: “Epigenetic Dysregulation of EBV(+) Extranodal NK/T cell Lymphoma Defines Distinct Subsets of Disease”
11:00 - 11:20  Emily Mace: “New insights into requirements for adhesion and migration in human NK cell development”
11:20 - 11:30  Selected short talk 3: Geoffrey Guittard: “Targeting CIS in NK cells improves their anti-tumor functions without impairing homeostasis”
11:30 - 11:50  Michael A. Caligiuri: “A missing link: Why PD-L1 negative tumors respond to anti-PD-L1”
11:50 - 12:00  Selected short talk 4: Philippa Kennedy: “A tri-specific killer engager (TriKE) against mesothelin targets NK cells towards lung cancer”
12:00 - 13:30  Lunch
SESSION 3 - Innate Lymphoid Cells
Chairpersons: Nathalie Jacobs, Evelyn Ullrich

13:30 - 13:50 Mariapia Degli-Esposti: “NK cell regulation of inflammatory responses”
13:50 - 14:10 Christian Vosshenrich: “ILC development – from a T cell perspective”
14:10 - 14:20 Selected short talk 5: Selma Boulenouar: “High-fat diet causes rapid microbiota-dependent intestinal ILC3 loss and impairs tolerance and immunity”
14:20 - 14:40 Marco Colonna: “NCRs Ligands”
14:40 - 15:00 Andreas Diefenbach: “Control of tissue homeostasis and growth by innate lymphoid cells”

15:00 - 15:30 Coffee Break

SESSION 4 - NK cells and Metabolism
Chairpersons: Sophie Ugolini, Dirk Brenner

15:30 - 15:50 Greta Guarda: “Novel mechanisms regulating NK cell immunity”
15:50 - 16:00 Selected short talk 6: Luana Guerra: “Glutathione modulates Natural Killer cell function”
16:00 - 16:20 Clair M. Gardiner: “How cancer impacts on NK cell metabolism”
16:30 - 16:50 Megan A. Cooper: “Metabolic regulation of NK cell anti-viral functions”
16:50 - 17:00 Selected short talk 8: Laurent Brossay: “KLRG1 as a novel checkpoint inhibitor target”

17:00 - 19:00 Free Time

19:00 Poster Session 1

Wednesday 02.10.2019

SESSION 5 - NK cells and Anti-Tumour Immunity
Chairpersons: Massimo Vitale, Christian Vosshenrich

08:30 - 10:00 Adelheid Cerwenka: “Exploiting Natural Killer cell functional heterogeneity in cancer”
08:50 - 9:10 David H. Raulet: “NK cell activation and inactivation in the tumor microenvironment: Potential for mobilizing NK cells for cancer therapy”
09:10 - 9:20 Selected short talk 9: Karoliina Tuomela: “Radiotherapy induces resistance to NK cell cytotoxicity”
09:20 - 9:40 Jordan S. Orange: “Advances in the mechanics of NK cell cytotoxicity”
09:40 - 10:00 Carsten Watzl: “Insights into the cytotoxic mechanisms of NK cells”

10.00 - 10.30 Coffee Break

SESSION 6 - NK cell Memory
Chairpersons: Frank Cichocki, Yenan Bryceson

10:30 - 12:00
10:30 - 10:50  
Joseph C. Sun: “Molecular mechanisms controlling adaptive NK cell responses”

10:50 - 11:00  
Selected short talk 10: Endi Santosa: “Themis2 regulates innate and adaptive lymphocyte responses during viral infection”

11:00 - 11:20  
Silke Paut: “NK memory to HIV”

11:20 - 11:30  

11:30 - 11:50  
Todd A. Fehniger: “Cytokine-Induced Memory-Like NK cells”

11:50 - 12:00  

12:00 - 13:30  
Lunch

13:30 - 15:00  
SESSION 7 - NK cell Immunotherapy and Immunomodulation
Chairpersons: Angela Santoni, Bassam Janji

13:30 - 13:50  
Eric Vivier: “Manipulation of Natural Killer cells in Cancer”

13:50 - 14:10  
Kathy Rezvani: “Next generation engineered NK cell therapies for the treatment of cancer”

14:10 - 14:20  
Selected short talk 13: Pauline Rettman: “A DNA vaccine targeting KIR2DS2 activates NK cells and inhibits tumour growth”

14:20 - 14:40  
Winfried Wels: “CAR-engineered NK cells: Off-the-shelf therapeutics bridging innate and adaptive immunity”

14:40 - 15:00  
Zhigang Tian: “NK Cell Exhaustion and Reversal in Tumor Immunotherapy”

15:00 - 17:00  
Poster Session 2

17:00 - 19:30  
Social Event

19:30  
Gala Dinner

Thursday 03.10.2019

08:30 - 10:00  
SESSION 8 - Tissue-associated NK cell Subsets
Chairpersons: Ana Stojanovic, Niklas Björkström

08:30 - 8:50  
Wayne Yokoyama: “Tissue-resident NK cells in the pregnant uterus.”

08:50 - 9:00  
Selected short talk 14: Anais Eberhardt: “Interleukin-33 is a novel activator of a subset of polyfunctional NK cells with anti-tumor activity”

09:00 - 9:10  
Selected short talk 15: Ayad Ali: “A LAGging sensation prevents overexuberant immune regulation by splenic NK cells”

09:10 - 9:20  
Selected short talk 16: John Sunwoo: “Heterogeneity of NK Cells and Innate Lymphoid Cells in the Tissue Microenvironment of Human Tumors”

09:20 - 9:40  
Ashley Moffett. “On the Frontier: No Hard Border between the Mother and her Fetus”

09:40 - 9:40  
Selected short talk 17: Ana Espino: “Interplay between Zika Virus and Decidual Natural Killer cells at the human maternal-fetal interface”
09:40 - 9:50  Selected short talk 18: Silvia Pesce: “Relevant role for PD-1 immune checkpoint expressed on NK cells derived from ovarian cancer patients”

10.00 - 10.30  Coffee Break

10:30 - 12:00  SESSION 9 - NK Cells and infection
Chairpersons: Eleanor Riley, Stipan Jonjic

10:30 - 10:50  Chiara Romagnani: “CMV imprinting of NK cells signatures”
10:50 - 11:10  Lewis L. Lanier: “NK cell interaction with MHC class I-negative cells”
11:20 - 11:40  Marcus Altfeld: “Regulation of NK cell activation by HLA class II and non-classical HLA class I”
11:40 - 12:00  Christopher H. Mody: “Direct fungal killing by human NK cells”

12:00 - 13:30  Lunch

13:30 - 15:00  SESSION 10 - NK cells in clinics
Chairpersons: Nick Huntington, Salim Khakoo

13:30 - 13:50  Ulrike Köhl: “CAR expressing NK cells for cancer retargeting”
13:50 - 14:10  Jeffrey Miller: “Enhancing NK Cell Specificity With Off-the-Shelf engagers (TriKEs) and iPS derived NK”
14:10 - 14:20  Selected short talk 20: Aura Muntasell: “Predictive value of tumor-associated and circulating NK cells for neoadjuvant therapy response in primary HER2-positive breast cancer patients”
14:20 - 14:40  Dean Lee: “Genetic, epigenetic, and non-genetic reprogramming of NK cells for therapeutic application”
14:40 - 15:00  Hans Gustaf Ljunggren: “Autologous NK cell-based adoptive immunotherapies in human lymphoid malignancies”

15:00 - 15:30  Concluding remarks and invitation to the next NK meeting