

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 IFN γ 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

13:30 - 15:00	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
15:30 - 17:00	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"
16:20 - 16:30	Selected short talk 7: Andrew Highton: "Distinct Metabolic Profiles in Differentially Educated NK Cell Populations"
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

08:30 - 10:00	SESSION 5 - NK cells and Anti-Tumour Immunity Chairpersons: Massimo Vitale, Christian Vosshenrich
08:30 - 8:50	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
10:30 - 12:00	SESSION 6 - NK cell Memory Chairpersons: Frank Cichocki, Yenan Bryceson

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 Paust: "NK memory to HIV"
11:20 - 11:30	Selected short talk 11: Vanda Juranic Lisnic Vanda: "Altered-self MHC I molecules in MCMV evasion of NK cells and evolution of virus-specific Ly49 receptors"
11:30 - 11:50	Todd A. Fehniger: "Cytokine-Induced Memory-Like NK cells"
11:50 - 12:00	Selected short talk 12: Alvaro Haroun-Izquierdo: "Efficient Scale-up and Pre-clinical Evaluation of NKG2C+ Adaptive NK Cell Expansion for Therapy Against High-risk AML/MDS"
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: Anaïs 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"
11:10 - 11:20	Selected short talk 19: Helen Wagstaffe: "Ebola Virus Glycoprotein Stimulates IL-18 Dependent Natural Killer Cell Responses"
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