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

Monday 30.09.2019

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

19:00 pm  Welcome Cocktail

Tuesday 01.10.2019

08:30 - 10:00 am  SESSION 1 - NK Cell Receptors and Education
Chairpersons: Andre Veillette, Domenico Mavilio

08:30 - 8:50 am  Katharine Hsu: TBA
08:50 - 9:10 am  Jacques Zimmer: “Imprint of education on activated natural killer cells”
09:10 - 9:20 am  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 am  Peter Parham: “Interactions of KIR, HLA class I and Disease”
09:40 - 10:00 am  Karl-Johan Malmberg: “Functional diversification of human NK cells through lysosomal maturation and remodeling”

10.00 - 10.30 am  Coffee Break

10:30 - 12:00 pm  SESSION 2 - NK Cell Development and Differentiation
Chairpersons: Aharon Freud, Cynthia Dunbar

10:30 - 10:50 am  Catherine Blish: “Tuning the human natural killer response to viral infection”
10:50 - 11:00 am  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 am  Emily Mace: TBA
11:20 - 11:30 am  Selected short talk 3: Geoffrey GUITTARD: “Targeting CIS in NK cells improves their anti-tumor functions without impairing homeostasis”
11:30 - 11:50 am  Michael A. Caligiuri: TBA
11:50 - 12:00 pm  Selected short talk 4: Philippa KENNEDY: “A tri-specific killer engager (TriKE) against mesothelin targets NK cells towards lung cancer”

12:00 - 13:30 pm  Lunch
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<tr>
<th>Time</th>
<th>Session</th>
<th>Chairpersons</th>
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<tr>
<td>13:30 - 15:00 pm</td>
<td>SESSION 3 - Innate Lymphoid Cells</td>
<td>Nathalie Jacobs, Evelyn Ullrich</td>
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<td>13:30 - 13:50 pm</td>
<td>Mariapia Degli-Esposti: TBA</td>
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<td>13:50 - 14:10 pm</td>
<td>James Di Santo: “ILC Development, Plasticity and Memory”</td>
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<td>14:10 - 14:20 pm</td>
<td>Selected short talk 5: Selma BOULENOUAR: “High-fat diet causes rapid microbiota-dependent intestinal ILC3 loss and impairs tolerance and immunity”</td>
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<td>14:20 - 14:40 pm</td>
<td>Marco Colonna: “NCRs Ligands”</td>
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<td>14:40 - 15:00 pm</td>
<td>Andreas Diefenbach: “Control of tissue homeostasis and growth by innate lymphoid cells”</td>
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<td>15:00 - 15:30 pm</td>
<td>Coffee Break</td>
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<td>15:30 - 17:00 pm</td>
<td>SESSION 4 - NK cells and Metabolism</td>
<td>Sophie Ugolini, Dirk Brenner</td>
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<td>15:30 - 15:50 pm</td>
<td>Greta Guarda: “Novel mechanisms regulating NK cell immunity”</td>
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<td>15:50 - 16:00 pm</td>
<td>Selected short talk 6: Luana GUERRA: “Glutathione modulates Natural Killer cell function”</td>
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<td>16:00 - 16:20 pm</td>
<td>Claire M. Gardiner: “How cancer impacts on NK cell metabolism”</td>
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<td>16:20 - 16:30 pm</td>
<td>Selected short talk 7: Andrew HIGHTON: “Distinct Metabolic Profiles in Differentially Educated NK Cell Populations”</td>
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<td>16:30 - 16:50 pm</td>
<td>Megan A. Cooper: “Metabolic regulation of NK cell anti-viral functions”</td>
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<td>16:50 - 17:00 pm</td>
<td>Selected short talk 8: Laurent BROSSAY: “KLRG1 as a novel checkpoint inhibitor target”</td>
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<td>17:00 - 19:00 pm</td>
<td>Free Time</td>
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<td>19:00 pm</td>
<td>Poster Session 1</td>
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**Wednesday 02.10.2019**

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<th>Time</th>
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<tr>
<td>08:30 - 10:00 am</td>
<td>SESSION 5 - NK cells and Anti-Tumour Immunity</td>
<td>Massimo Vitale, Christian Vosshenrich</td>
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<td>08:30 - 8:50 am</td>
<td>Adelheid Cerwenka: “Exploiting Natural Killer cell functional heterogeneity in cancer”</td>
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<td>08:50 - 9:10 am</td>
<td>David H. Raulet: “NK cell activation and inactivation in the tumor microenvironment: Potential for mobilizing NK cells for cancer therapy”</td>
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<td>09:10 - 9:20 am</td>
<td>Selected short talk 9: Karoliina TUOMELA: “Radiotherapy induces resistance to NK cell cytotoxicity”</td>
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<td>09:20 - 9:40 am</td>
<td>Jordan S. Orange: “Advances in the mechanics of NK cell cytotoxicity”</td>
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<td>09:40 - 10:00 am</td>
<td>Carsten Watzl: “Insights into the cytotoxic mechanisms of NK cells”</td>
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<td>10:00 - 10:30 am</td>
<td>Coffee Break</td>
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10:30 - 12:00 pm  SESSION 6 - NK cell Memory  Chairpersons: Frank Cichocki, Yenan Bryceson

10:30 - 10:50 am  Joseph C. Sun: “Molecular mechanisms controlling adaptive NK cell responses”
10:50 - 11:00 am  Selected short talk 10: Endi SANTOSA: “Themis2 regulates innate and adaptive lymphocyte responses during viral infection”
11:00 - 11:20 am  Silke Paust: NK memory to HIV
11:30 - 11:50 am  Todd A. Fehniger: “Cytokine-Induced Memory-Like NK cells”

12:00 - 13:30 pm  Lunch

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

13:30 - 13:50 pm  Ulrike Köhl: “CAR expressing NK cells for cancer retargeting”
13:50 - 14:10 pm  Kathy Rezvani: “Next generation engineered NK cell therapies for the treatment of cancer”
14:10 - 14:20 pm  Selected short talk 13: Pauline RETTMAN: “A DNA vaccine targeting KIR2DS2 activates NK cells and inhibits tumour growth”
14:20 - 14:40 pm  Winfried Wels: “CAR-engineered NK cells: Off-the-shelf therapeutics bridging innate and adaptive immunity”
14:40 - 15:00 pm  Zhigang Tian: “NK Cell Exhaustion and Reversal in Tumor Immunotherapy”

15:00 - 17:00 pm  Poster Session 2
17:00 - 19:30 pm  Social Event
19:30 pm  Gala Dinner

Thursday 03.10.2019

08:30 - 10:00 am  SESSION 8 - Tissue-associated NK cell Subsets  Chairpersons: Ofer Mandelboim, Niklas Björkström

08:30 - 8:50 am  Wayne Yokoyama: “Tissue-resident NK cells in the pregnant uterus.”
08:50 - 9:00 am  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 am  Selected short talk 15: Ayad ALI: “A LAGging sensation prevents overexuberant immune regulation by splenic NK cells”
09:20 - 9:40 am  Ashley Moffett. “On the Frontier: No Hard Border between the Mother and her Fetus”
09:40 - 9:40 am  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 am  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 am  Coffee Break
10:30 - 12:00 pm  SESSION 9 - NK Cells and infection
Chairpersons: Eleanor Riley, Stipan Jonjic
10:30 - 10:50 am  Chiara Romagnani: TBA
10:50 - 11:10 am  Lewis L. Lanier: “Nk cell interaction with MHC class I-negative cells”
11:20 - 11:40 am  Marcus Altfeld: “Regulation of NK cell activation by HLA class II and non-classical HLA class I”
11:40 - 12:00 pm  Christopher H. Mody: “Direct fungal killing by human NK cells”
12:00 - 13:30 pm  Lunch
13:30 - 15:00 pm  SESSION 10 - NK cells in clinics
Chairpersons: Nick Huntington, Salim Khakoo
13:30 - 13:50 pm  Eric Vivier: “Manipulation of Natural Killer cells in Cancer”
13:50 - 14:10 pm  Jeffrey Miller: “Enhancing NK Cell Specificity With Off-the-Shelf engagers (TriKEs) and iPS derived NK”
14:10 - 14:20 pm  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 pm  Dean Lee: “Genetic, epigenetic, and non-genetic reprogramming of NK cells for therapeutic application”
14:40 - 15:00 pm  Hans Gustaf Ljunggren. “Autologous NK cell-based adoptive immunotherapies in human lymphoid malignancies”
15:00 - 15:30 pm  Concluding remarks and invitation to the next NK meeting