# NK2019 Preliminary Programme

**30/09/2019 - 03/10/2019**

## Monday 30.09.2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Details</th>
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<tbody>
<tr>
<td>14:00 - 19:00 pm</td>
<td>Registration open</td>
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<tr>
<td>17:00 - 17:30 pm</td>
<td>Welcome</td>
<td>Chairperson: Markus Ollert</td>
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<td>17:30 - 18:30 pm</td>
<td><strong>Keynote Lecture:</strong> Jean-Laurent Casanova</td>
<td>&quot;Toward a genetic theory of childhood infectious diseases&quot;</td>
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<td>19:00 pm</td>
<td>Welcome Cocktail</td>
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## Tuesday 01.10.2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chairpersons</th>
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<tbody>
<tr>
<td>08:30 - 10:00 am</td>
<td>SESSION 1 - NK Cell Receptors and Education</td>
<td>Andre Veillette, Domenico Mavilio</td>
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<tr>
<td>08:30 - 8:50 am</td>
<td>Katharine Hsu: TBA</td>
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<td>08:50 - 9:10 am</td>
<td>Jacques Zimmer: &quot;Imprint of education on activated natural killer cells&quot;</td>
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<tr>
<td>09:10 - 9:20 am</td>
<td>Selected short talk 1: Sytse PIERSMA</td>
<td>&quot;Activation Receptor-dependent IFNγ Production by NK Cells is Controlled by Transcription, Translation and the Proteasome&quot;</td>
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<td>09:20 - 9:40 am</td>
<td>Peter Parham: &quot;Interactions of KIR, HLA class I and Disease&quot;</td>
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<td>10:00 - 10:50 am</td>
<td>Catherine Blish: &quot;Tuning the human natural killer response to viral infection&quot;</td>
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<td>10:50 - 11:00 am</td>
<td>Selected short talk 2: Bethany MUNDY-BOSSE</td>
<td>&quot;Epigenetic Dysregulation of EBV(+) Extranodal NK/T cell Lymphoma Defines Distinct Subsets of Disease&quot;</td>
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<td>11:00 - 11:20 am</td>
<td>Emily Mace: TBA</td>
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<tr>
<td>11:20 - 11:30 am</td>
<td>Geoffrey GUITTARD: &quot;Targeting CIS in NK cells improves their anti-tumor functions without impairing homeostasis&quot;</td>
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<td>11:30 - 11:50 am</td>
<td>Michael A. Caligiuri: TBA</td>
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<tr>
<td>11:50 - 12:00 pm</td>
<td>Philippa KENNEDY: &quot;A tri-specific killer engager (TriKE) against mesothelin targets NK cells towards lung cancer&quot;</td>
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<td>10:00 - 10:30 am</td>
<td>Coffee Break</td>
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<td>10:30 - 12:00 pm</td>
<td>SESSION 2 - NK Cell Development and Differentiation</td>
<td>Aharon Freud, Cynthia Dunbar</td>
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<td>12:00 - 13:30 pm</td>
<td>Lunch</td>
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<td>13:30 - 15:00 pm</td>
<td>SESSION 3 - Innate Lymphoid Cells</td>
<td>Nathalie Jacobs, Evelyn Ulrich</td>
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<td>13:30 - 13:50 pm</td>
<td>Mariapia Degli-Esposito: TBA</td>
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<td>13:50 - 14:10 pm</td>
<td>James Di Santo: &quot;ILC Development, Plasticity and Memory&quot;</td>
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14:10 - 14:20 pm 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 pm Marco Colonna: “NCRs Ligands”
14:40 - 15:00 pm Andreas Diefenbach: “Control of tissue homeostasis and growth by innate lymphoid cells”

15:00 - 15:30 pm Coffee Break

15:30 - 17:00 pm SESSION 4 - NK cells and Metabolism
Chairpersons: Sophie Ugolini, Dirk Brenner
15:30 - 15:50 pm Greta Guarda: “Novel mechanisms regulating NK cell immunity”
15:50 - 16:00 pm Selected short talk 6: Luana GUERRA: “Glutathione modulates Natural Killer cell function”
16:00 - 16:20 pm Claire M. Gardiner: “How cancer impacts on NK cell metabolism”
16:20 - 16:30 pm Selected short talk 7: Andrew HIGHTON: “Distinct Metabolic Profiles in Differentially Educated NK Cell Populations”
16:30 - 16:50 pm Megan A. Cooper: “Metabolic regulation of NK cell anti-viral functions”
16:50 - 17:00 pm Selected short talk 8: Laurent BROSSAY: “KLRG1 as a novel checkpoint inhibitor target”

17:00 - 19:00 pm Free Time

19:00 pm Poster Session 1

Wednesday 02.10.2019

08:30 - 10:00 am SESSION 5 - NK cells and Anti-Tumour Immunity
Chairpersons: Massimo Vitale, Christian Vossenrich
08:30 - 8:50 am Adelheid Cerwenka: “Exploiting Natural Killer cell functional heterogeneity in cancer”
08:50 - 9:10 am David H. Raulet: “NK cell activation and inactivation in the tumor microenvironment: Potential for mobilizing NK cells for cancer therapy”
09:10 - 9:20 am Selected short talk 9: Karoliina TUOMELA: “Radiotherapy induces resistance to NK cell cytotoxicity”
09:20 - 9:40 am Jordan S. Orange: “Advances in the mechanics of NK cell cytotoxicity”
09:40 - 10:00 am Carsten Watzl: “Insights into the cytotoxic mechanisms of NK cells”

10:00 - 10:30 am Coffee Break

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: TBA
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