

# 1<sup>st</sup> C3T Annual Workshop

VR Center of Excellence  
Center for Cellular Cancer Therapy – C3T

September 5–6, 2024 – Rönneberga Konferens, Lidingö

## Day 1: Thursday 5 September

Conference room: Hugin

(\* indicates invited speakers)

<b>8:45–9:15</b> (30 min)	<b>Arrival, coffee &amp; mingle</b>
<b>9:15–9:25</b> (10 min)	Welcome & introduction by the Organization Committee of C3T
<b>9:25–9:30</b> (5 min)	Safety & useful information from Rönneberga Konferens

### 1<sup>st</sup> Session: Lymphocyte differentiation (Chairs: Yenan & Carmen)

<b>9:30–10:00</b> (30 min)	Jean-Christophe Beltra*, PI, Dep. of Biomedicine, University of Basel <i>“Exploring the Developmental Biology of Exhausted CD8 T Cells to Enhance Cancer Immunotherapy”</i>
<b>10:00–10:15</b> (15 min)	Patrick Sandoz, Postdoc in Önfelt group, KI <i>“Imaging-based exploration of <math>\gamma\delta</math> T cell infiltration and effector functions in 3D microtumor spheroids”</i>
<b>10:15–10:30</b> (15 min)	Heinrich Schlums, Postdoc in Bryceson group, KI <i>“Tuning of NK-like CD8+ T Cell differentiation and function by BCL11B”</i>
<b>10:30–11:00</b> (30 min)	<b>Coffee/ tea break</b>
<b>11:00–11:45</b> (45 min)	Andrea Schietinger*, PI, Memorial Sloan Kettering Cancer Center, NY <i>“Tumor-specific T cell differentiation and reprogramming”</i>
<b>11:45–12:00</b> (15 min)	Nicole Marquardt, PI, Dep. of Medicine, Huddinge, KI <i>“Accumulation of NK cells with a tissue-resident phenotype in human lung tumors”</i>
<b>12:00–12:15</b> (15 min)	Johan Henriksson, PI, Dep. of Molecular Biology, Umeå University <i>“The CD4 T cell epigenetic JUNB+ state is associated with proliferation and exhaustion”</i>
<b>12:30–13:30</b> (1 hour)	<b>Lunch</b>



**Karolinska  
Institutet**

**2<sup>nd</sup> Session: Tumor microenvironment (Chairs: Isabelle & Camilla)**

<b>13:30–14:15</b> (45 min)	Arne Östman, PI, Dep. of Oncology–Pathology, KI <i>“In situ–defined fibroblast subsets associated with immune features, response to treatment and prognosis”</i>
<b>14:15–14:45</b> (30 min)	Beatrice Zitti*, Research fellow in Pittet group, Dep. of Pathology and Immunology, University of Geneva <i>“Immune regulation of CCR7+ dendritic cells at tumor sites”</i>
<b>14:45–15:00</b> (15 min)	Aline Pfefferle, Postdoc in Malmberg group, KI <i>“Pan-cancer profiling of tumor-infiltrating natural killer cells through transcriptional reference mapping”</i>
<b>15:00–15:15</b> (15 min)	Dhifaf Sarhan, PI, Dep. of Laboratory Medicine, KI <i>“Adaptive NK cells for immunotherapy of solid tumors”</i>
<b>15:15–15:30</b> (15 min)	Quirin Hammer, PI, Dep. of Medicine, Huddinge, KI <i>“Genetic ablation of adhesion ligands mitigates rejection of allogeneic cellular immunotherapies”</i>
<b>15:30–16:00</b> (30 min)	<b>Coffee/ tea break &amp; Poster setup</b>

**Scientific speed dating**

<b>16:00–17:00</b> (1 hour)	<p><b>Session structure:</b></p> <ol style="list-style-type: none"> <li><b>Initial grouping:</b> <ul style="list-style-type: none"> <li>Participants are divided in 6 groups of 8–9 participants (Groups 1–8).</li> <li><b>Duration:</b> 30 minutes.</li> <li><b>Activity:</b> Within each group, participants will deliver their elevator pitch (maximum of 2 minutes each), explaining their research or work to the rest of the group.</li> </ul> </li> <li><b>Second grouping:</b> <ul style="list-style-type: none"> <li>Participants are re-divided into 8 new groups, each consisting of 12–13 participants (Groups A–H).</li> <li><b>Duration:</b> 30 minutes.</li> <li><b>Activity:</b> Within each new group, participants will again deliver their elevator pitch (maximum of 2 minutes each), sharing their work with the new set of group people.</li> </ul> </li> </ol> <p><b>Name tags:</b></p> <p>Each participant’s name tag will state the 2 groups they belong to, making it easier to organize and manage the group transitions.</p>
<b>17:00</b>	Mingle with snacks and drinks & Posters
<b>19:00</b>	<b>Dinner</b>



## Day 2: Friday 6 September

Conference room: Hugin

7:00–9:00	Breakfast & Check-out
<b>3<sup>rd</sup> Session: Cellular based immunotherapies (Chairs: Stephan &amp; Michael)</b>	
9:00–9:45 (45 min)	Marco Donia*, PI, National Center for Cancer Immune Therapy (CCIT-DK), Herlev Hospital, Denmark <b><i>“Tumor-infiltrating lymphocytes: bench to clinic”</i></b>
9:45–10:00 (15 min)	Joel Rurik, Postdoc in Buggert group, KI <b><i>“Generating T cell immuno-therapeutics in vivo with targeted lipid nanoparticles”</i></b>
10:00–10:15 (15 min)	Maria Morelló Miravet, MD & PhD Student in Mielke group <b><i>“Towards treating the first patient at Karolinska with sickle cell disease using gene editing of autologous blood stem cells”</i></b>
10:15–10:45 (30 min)	Coffee/ tea break
10:45–11:15 (30 min)	William Nyberg*, PI, Dep. of Medicine, Huddinge, KI <b><i>“Site-specific integrations in vivo to generate CAR-T cells”</i></b>
11:15–11:30 (15 min)	Arnika Kathleen Wagner, PI, Dep. of Medicine, Huddinge, KI <b><i>“Novel chimeric antigen receptors for optimized NK cell function”</i></b>
11:30–11:45 (15 min)	Hugh Salter, Chief scientific officer at Anocca AB <b><i>“Development of TCR-T therapies with a precision cell-based analytical platform”</i></b>
11:45–12:00 (15 min)	Caroline Eriksson, Phd student in Carlsten group, KI <b><i>“Generation and evaluation of IL-2 transgene constructs to promote autonomous NK cell persistence for improved NK cell-based cancer immunotherapy”</i></b>
12:00–13:15 (75 min)	Lunch
13:15–13:45 (30 min)	Franziska Blaeschke*, PI, DKFZ/KITZ, Heidelberg, Germany <b><i>“Reprogramming Immune Cells with CRISPR”</i></b>
13:45–14:00 (15 min)	Lucía Rico Pizarro, Phd student in Kallioniemi group, KI <b><i>“Enhancing MSLN-CAR T Cell Efficacy in Ovarian Cancer: The Role of Drug Combinations”</i></b>
14:00–14:15 (15 min)	Nutsa Burduli, PhD student in Alici group, KI <b><i>“Genome-wide CRISPR-Cas9 screen for the elucidation of novel mediators of cytotoxicity and cytokine production in natural killer cells”</i></b>
14:15–14:45 (30 min)	Coffee/ tea break



**Karolinska  
Institutet**

<b>14:45–15:00</b> (15 min)	Ioana Sandu, Postdoc in Gerlach group, KI <b><i>“The impact of infection dose on CD8 T cell response diversity in acute viral infection”</i></b>
<b>15:00–15:15</b> (15 min)	Isabella Micallef Nilsson, PhD student in Uhlin group, KI <b><i>“Characterization of CD19 CAR T cells produced in hypoxia”</i></b>
<b>15:15–16:00</b> (45 min)	James N. Kochenderfer*, PI, Nat. Institutes of Health, USA, Bethesda <b><i>“Genetically engineered T-cell therapies for hematologic malignancies”</i></b>
<b>16:00–16:15</b> (15 min)	Closing remarks from organizing Committee of C3T
<b>16:15</b>	<b>Departure</b>

