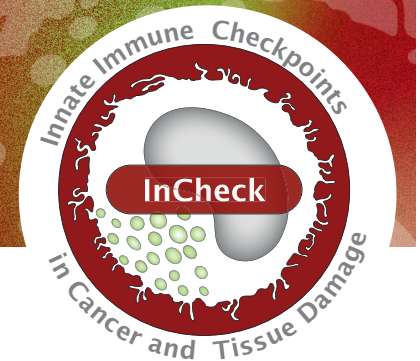


GRK 2727

INTERNATIONAL CONFERENCE 2025

on Innate Immune Checkpoints
in Cancer and Tissue Damage



Conference Program

Deutsches Krebsforschungszentrum, Im Neuenheimer Feld 280, 69120 Heidelberg

GRK2727 Student Representatives: Sebastiano Giorgetta, Joe Hendrickson, Isabelle Müller

Thursday, January 23th

11:30 Registration

13:00 Welcome Coffee

13:15 **Opening**
Adelheid Cerwenka, Martina Muckenthaler

13:30 Ido Amit: The power of ONE: Immunology in the age of single cell genomics

14:00 Satu Mustjoki: Mechanism of resistance and sensitivity to adoptive NK cell therapies in blood cancers

14:30 Bianca Balzasch: A 3D patient-derived organoid co-culture model captures tumor-associated monocyte reprogramming in colorectal cancer

14:45 Meggy Suarez-Carmona: Visceral adipose tissue proximity as a biomarker of response to immunotherapies in epithelial ovarian cancer: insights from patient-derived tissue explants

Chairs:
Sebastiano Giorgetta,
Joe Hendrickson

15:00 – 15:30 Coffee break

15:30 Sylvia Knapp: Determinants of pulmonary immune homeostasis

16:00 Florent Ginhoux: Timing and location dictate monocyte fate and their transition to tumor-associated macrophages

16:30 **Flash Talks:**

1. Isabelle Bernhardt: Investigating The Role of Myeloid PD-L1 in Immune Checkpoint Blockade Resistance in Glioblastoma
2. Stefania Cucinelli: Exploration of the Hepatocytes - Liver Sinusoidal Endothelial Cells regulatory axis for iron-induced Bmp6 expression
3. Alicia Fath: The mechanism of VEGF-C-dependent therapy-induced pulmonary metastasis
4. Sebastiano Giorgetta: Fine tuning NK cell effector responses through AhR-HIF-1 α pathway
5. Clara Heine: Inhibition of T Cell Co-Stimulation Causes Insufficient Scarring and Ventricular Rupture After Myocardial Infarction in Mice
6. Leon Heine: TIR-domain containing protein C of uropathogenic Escherichia coli as regulator of innate immune checkpoints
7. Joe Hendrickson: Association of TAM Receptor expression on Natural Killer cells with response to immune checkpoint inhibitors in patients with stage IV NSCLC
8. Matthias Lemmer: Alternative Polyadenylation Affects Immunoregulatory Genes in LPS treated Macrophages
9. Jessica Löffler: Lactate – a metabolite that augments myeloid hematopoiesis and promotes a proinflammatory monocyte state which is linked to faster recovery from sepsis
10. Isabelle Müller: Immunomodulating effects of the TIR-domain-containing protein C of the UPEC strain CFT073 in the urinary bladder
11. Felix Stark: Hyperosmolar lactate reduces catecholamine demand and improves oxygen delivery in a porcine model of septic shock
12. Su Selin Tatar: Age-dependent changes in immune checkpoint protein expression by natural killer cells
13. Xin Yan: Rorc splicing in T cell differentiation

Chairs:
Jessica Löffler,
Matthias Lemmer

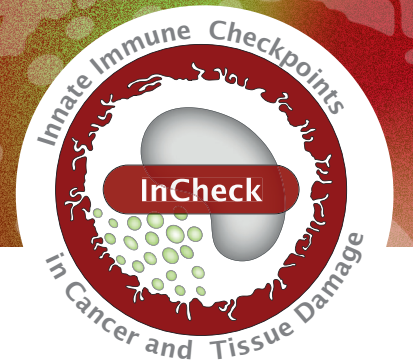
Chairs:
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Martina Muckenthaler

17:00 – 18:30 **Poster Session** with finger food and beverages

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Friday, January 24th

09:00	Miguel Soares: Macrophages cross-regulation of systemic iron and energy metabolism	Chairs: Stefania Cucinelli, Patricia Sekol
09:30	Hal Drakesmith: Iron and anti-cancer immunity	
10:00	Maria Pereira: Inflammatory activation of iron-loaded macrophages: iron nanoparticles as a novel approach to cancer immunotherapy	
10:15	Annika Niehrs: Phenotypic characterization of untreated chronic hepatitis B infected individuals in a Ethiopian cohort using fixed whole blood samples	
10:30 – 11:00 Coffee break		
11:00	Clare Bryant: The Toll-like receptor innate immune switch	Chairs: Natalie Ludwig, Zeynep Aydin
11:30	Simon Hametner: The role of brain iron alterations in multiple sclerosis	
12:00	Celia Lerma Martin, Patricia Sekol: Cell type mapping unravels tissue niches and interactions in subcortical multiple sclerosis lesions	
12:15	David Barinberg: The metabolic program of inflammatory eosinophils accounts for the chronicity of a parasitic skin infection	
12:30 – 14:00 Lunch break		
14:00	David Vonhören: NK cells limit T cell anti-tumor immunity in experimental glioma	Chairs: Leon Heine, Julia Oberbauer
14:15	Dominik Kato: Circadian transcription factor REVERBA inhibits PVR/CD155	
14:30	Manolis Pasparakis: Regulation and sensing of Z-DNA and Z-RNA in cell death and interferon responses	
15:00	Jessica Hamerman: Monocyte differentiation during TLR7 driven Macrophage Activation Syndrome	
15:30	Closing Session	

CHECK OUR WEBSITE:

www.umm.uni-heidelberg.de/grk2727/

