



DKTK Berlin 7th Cancer Retreat September 22- 23, 2022

Harnack-Haus Ihnestraße 16-20 14195 Berlin

Agenda draft

Thursday, September 22

From 8:30 Registration

9:00 – 9:15 **Welcome and Introduction** *Angelika Eggert*

9:15 – 9:45 **Keynote Lecture**
Channing Der
Einstein Visiting Fellow at Berlin Institute of Health & Professor of Pharmacology, Genetics and Molecular Biology, UNC Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill

9:45 – 11:05 **Session I: Immunotherapy**
Short Introduction **Gerald Willimsky**
Each presentation 10 min + 5min discussion
Combination of TCRs and CARs for T-Cell therapy targeting antigens caused by cancer mutations
Matthias Leisegang
Combining CAR and TCR T cell therapy to improve therapeutic efficacy against neuroblastoma
Annette Künkele
Unbiased identification of target antigens of CD8+ tumor infiltrating T cells using multiple Myeloma as an example
Leo Hansmann
Universal tumor-specific cytokine secreting cells to enhance clinical activity of checkpoint inhibition
Sebastian Ochsenreither
Mechanistic Assessment of Response and Resistance Signatures of Adoptive T cell Therapy in Human Large B-cell Lymphoma
Antonia Busse / Björn Chapuy

11:05– 11:25 **Coffee break**

11:25 – 13:00 **Session II: Functional Oncology Part 1**

Short Introduction (5min) Each presentation 10 min + 5min discussion

Leveraging large-scale molecular profiling of primary tumor samples and functional genetic screens for the development of targeted blood cancer therapies

Ulrich Keller

Establishing Models for Clonal Competition in Neuroblastoma Tumor Evolution

Johannes Schulte

Pooled Single Cell Profiling for Oncogene Co-operativity in CRISPR-modified Colorectal Cancer Organoids

Nils Blüthgen / Markus Morkel

Expression levels and spatial distribution of immune cell co-receptors for prognosis and therapy of MSS and MSI colorectal cancers

Christine Sers / Birgit Sawitzki

Tracking therapy-driven clonal evolution to understand treatment resistance in head neck cancer

Ana Pestana

Comparison of clonal cancer evolution in patients vs. patient-derived PDX and PDO models

AG Keilholz

13:00 – 14:00 **Lunch**

14:00 – 15:15 **Session II: Functional Oncology Part 2**

Integrated genome-wide CRISPR-Cas9-based analysis of therapy-resistance drivers in pediatric rhabdomyosarcoma / Understanding treatment evasion in fusion-positive rhabdomyosarcoma on the single-cell level

Anja Herren-Hagemann

The effect of MACC1 on senescence and senescence-induced metastasis

Nazli Güllü

Unraveling resistance mechanism of colorectal cancer patients treated with KRASG12C inhibitors and EGFR antibodies for functional oncology

Sebastian Stintzing / Björn Papke

Multi-omic patient-specific mechanism of relapse converge on common molecular pathways in mCRC

Soulafa Mamlouk

Understanding and circumventing resistance to antibody treatment in pediatric relapsed acute lymphoblastic leukemia

Cornelia Eckert

15:15 – 15:30 *Coffee break*

15:30 – 16:55 **Session III: Molecular Diagnostics & Biomarker Development**

Short Introduction **David Capper**

Each presentation 10 min + 5 min discussion

Blood-based molecular monitoring of IDH mutant glioma patients

Leonille Schweizer

Deciphering a multi-omic stemness signature for individual risk prediction in acute myeloid leukemia (AML)

Frederik Damm

DNA damage/repair signature as biomarker of response to CHEK inhibitors in BRAF V600E colorectal cancer

Christine Sers / Loredana Vecchione

Proteogenomic analysis for identification of new therapeutic targets and risk classification in multiple myeloma

Jan Krönke

Identification of proteomic signatures of early cancer suitable for cancer screening

Ulrich Keilholz / Markus Ralser

16:55 – 17:10 **Outlook: NCT Berlin**

Ulrich Keilholz

18:00 **Dinner**

Friday, September 23: *Promoting Young Talents*

9:00 – 9:45 **Presentations Young Investigators 2021 - 2023**

Investigating the Temporal Rewiring of the RAS-Driven Genetic Network during Oncogenic Transformation using Mathematical Modelling on Systematic Single Cell Perturbations
Bertram Klinger

Molecular profiling of late effects of cancer therapies
Mareike Frick

A framework for clinical assessment of circular DNA evolution in paediatric tumours
Kerstin Haase

9:45 – 10:15 **Coffee break**

10:15 – 11:45 **Presentations Young Investigators 2022 - 2024**

Improving efficacy of tumor-agnostic peptide:MHC specific CAR-T cells through drug modulated target presentation
Martin Klatt

Unraveling causes of drug resistance in BRAF(V600E) mutated CRC using single cell mRNA sequencing and proteome analyses of preclinical models
Loredana Vecchione

Tumor microenvironment biomarkers for stratification of lung cancer patients for immunotherapy
Philip Bischoff

Decoding and therapeutic targeting of the cellular ecosystem of secondary central nervous system lymphoma with single-cell proteo-genomics
Stefan Habringer

Investigating CRC cell cycle plasticity, a resistance mechanism to targeted therapies- from 2D tissue culture to organoids to pathology samples
Björn Papke

Postoperative and intraoperative genome-wide DNA methylation-based classification of mucinous ovarian cancers
Mihnea Dragomir

12:00 – 13:00 **Joint Lunch von DKTK & BSIO**
