

**DKTK Berlin 7<sup>th</sup> Cancer Retreat  
September 22- 23, 2022**

Harnack-Haus  
Innestraße 16-20, 14195 Berlin

**Agenda**

**Thursday - September 22, 2022** *Hahn Lecture Hall*

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*From 8:30*      Registration

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

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**9:15 – 9:45**      **Keynote Lecture**  
ERK: the final frontier for targeting RAS for cancer treatment?  
**Channing J. Der**

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**9:45 – 11:05**      **Session I: Immunotherapy**  
*Chairs: Gerald Willimsky & Ulrich Keller*

9:45 - 9:55      *Short Introduction* **Gerald Willimsky**

9:55 - 10:10      Combination of TCRs and CARs for T-Cell therapy targeting antigens caused by cancer mutations  
**Vasiliki Anastasopoulou**

10:10 - 10:25      Combining CAR and TCR T cell therapy to improve therapeutic efficacy against neuroblastoma  
**Kathleen Anders / Annette Künkele**

10:25 - 10:40      Unbiased identification of target antigens of CD8+ tumor infiltrating T cells using multiple Myeloma as an example  
**Leo Hansmann**

10:40 - 11:55      Mechanistic Assessment of Response and Resistance Signatures of Adoptive T cell Therapy in Human Large B-cell Lymphoma  
**Björn Chapuy**

10:55 - 11:10      Improving efficacy of tumor-agnostic peptide:MHC specific CAR-T cells through drug modulated target presentation  
**Martin Klatt (Young Investigator Grant)**

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**11:10 – 11:35**      **Coffee break**

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**11:35 – 13:00** **Session II: Functional Oncology Part 1**

*Chairs: Ulrich Keilholz & Sebastian Stintzing*

11:35 - 11:45 *Short Introduction **Angelika Eggert***

11:45 - 12:00 Leveraging large-scale molecular profiling of primary tumor samples and functional genetic screens for the development of targeted blood cancer therapies  
**Ulrich Keller**

12:00 - 12:15 Pooled Single Cell Profiling for Oncogene Co-operativity in CRISPR-modified Colorectal Cancer Organoids  
**Nils Blüthgen**

12:15 - 12:30 Tracking therapy-driven clonal evolution to understand treatment resistance in head neck cancer  
**Ana Pestana**

12:30 - 12:45 Comparison of clonal cancer evolution in patients vs. patient-derived PDX and PDO models  
**Anastasia Dielmann**

12:45 - 13:00 Understanding and circumventing resistance to antibody treatment in pediatric relapsed acute lymphoblastic leukemia  
**Jonas Eggeling**

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**13:00 – 14:00** **Lunch**

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

*Chairs: Christine Sers & Ingeborg Tinhofer-Keilholz*

14:00 - 14:15 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 Heeren-Hagemann**

14:15 - 14:30 The effect of MACC1 on senescence and senescence-induced metastasis  
**Nazli Güllü / Ulrike Stein/ Clemens Schmitt**

14:30 - 14:45 Unraveling resistance mechanism of colorectal cancer patients treated with KRASG12C inhibitors and EGFR antibodies for functional oncology  
**Björn Papke / Sebastian Stintzing**

14:45 - 15:00 Multi-omic patient-specific mechanism of relapse converge on common molecular pathways in mCRC  
**Soulafa Mamlouk**

15:00 - 15:15 Establishing Models for Clonal Competition in Neuroblastoma Tumor Evolution  
**Johannes Schulte**

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**15:15 - 15:35**     *Coffee break*

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**15:35 – 17:00**     **Session III: Molecular Diagnostics & Biomarker Development**

*Chairs: David Capper & David Horst*

15:35 – 15:45     *Short Introduction* **David Capper**

15:45 - 16:00     Blood-based molecular monitoring of IDH mutant glioma patients  
**Leonille Schweizer/Claudia Vollbrecht**

16:00 - 16:15     Deciphering a multi-omic stemness signature for individual risk prediction in acute myeloid leukemia (AML)  
**Frederik Damm**

16:15 - 16:30     DNA damage/repair signature as biomarker of response to CHEK inhibitors in BRAF V600E colorectal cancer  
**Christine Sers**

16:30 - 16:45     Proteogenomic analysis for identification of new therapeutic targets and risk classification in multiple myeloma  
**Jan Krönke**

16:45 - 17:00     Identification of proteomic signatures of early cancer suitable for cancer screening  
**Markus Ralser**

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**17:00 – 17:15**     **Outlook: NCT Berlin**

*Ulrich Keilholz*

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**18:00**             *Dinner*

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**Friday - September 23, 2022** *Hahn Lecture Hall*

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**9:00 – 9:15** **DKTK Promoting Young Talents** *Angelika Eggert*

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**9:15 – 10:00** **Presentations Young Investigators 2021 – 2023**  
*Chairs: Annette Künkele & Frederik Damm*

9:15 - 9:30 Investigating the Temporal Rewiring of the RAS-Driven Genetic Network during Oncogenic Transformation using Mathematical Modelling on Systematic Single Cell Perturbations  
**Bertram Klinger**

9:30 - 9:45 Molecular profiling of late effects of cancer therapies  
**Mareike Frick**

9:45 - 10:00 A framework for clinical assessment of circular DNA evolution in paediatric tumours  
**Kerstin Haase**

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**10:00 – 10:30** **Coffee break**

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**10:30 – 11:45** **Presentations Young Investigators 2022 - 2024**  
*Chairs: Nils Blüthgen & Lars Bullinger*

10:30 - 10:45 Unraveling causes of drug resistance in BRAF(V600E) mutated CRC using single cell mRNA sequencing and proteome analyses of preclinical models  
**Loredana Vecchione**

10:45 - 11:00 Tumor microenvironment biomarkers for stratification of lung cancer patients for immunotherapy  
**Philip Bischoff**

11:00 - 11:15 Decoding and therapeutic targeting of the cellular ecosystem of secondary central nervous system lymphoma with single-cell proteo-genomics  
**Stefan Habringer**

11:15 - 11:30 Investigating CRC cell cycle plasticity, a resistance mechanism to targeted therapies- from 2D tissue culture to organoids to pathology samples  
**Björn Papke**

11:30 - 11:45 Postoperative and intraoperative genome-wide DNA methylation-based classification of mucinous ovarian cancers and pancreato-biliary liver tumors  
**Mihnea Dragomir**

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

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