

Frontiers in Cancer Research

October 9-11, 2018
German Cancer Research Center - DKFZ



FCR

Tuesday, 9 October

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| 12:00 –13:00 | Registration and Get Together |
| 13:00 –13:15 | Welcome Peter Lichter , <i>Deputy Managing Director NCT Heidelberg, DE</i> Ursula Klingmüller , <i>Chair DKFZ Executive Women's Initiative, Heidelberg, DE</i> |
| 13:15 –14:15 | Key note lecture Titia de Lange , <i>Rockefeller University, New York, US</i> Telomeres and the DNA damage response |

Stem cells and cancer

Chairs: Ana-Martin Villalba, Marieke Essers

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| 14:15 | Anna Bigas , <i>IMIM, Barcelona, ES</i> Understanding the chromatin role of Ctnnb1 in the development of T cell Leukemogenesis |
| 14:45 | Ana Bolhaqueiro , <i>Hubrecht Institute, Utrecht, The Netherlands</i> Ongoing chromosomal instability and karyotype evolution in human colorectal cancer |
| 15:00 | Michaela Frye , <i>German Cancer Research Center, Heidelberg, DE</i> The regulatory potential of RNA modifications in stem cells and cancer |
| 15:30 | Kateri Moore , <i>Icahn School of Medicine at Mount Sinai, New York, US</i> Programming Hematopoiesis |
| 16:00 – 16:30 | Coffee Break |
| 16:30 | Elena Ezhkova , <i>Icahn School of Medicine at Mount Sinai, New York, US</i> Roles of Polycomb Group Proteins in Stem Cell Control |
| 17:00 | Axel Behrens , <i>The Francis Crick Institute, UK</i> Understanding cellular heterogeneity in pancreatic cancer |
| 17:30 | Cindrilla Chumduri , <i>Max Planck Institute for Infection Biology and Charité - Universitätsmedizin, Berlin, DE</i> Role of the microenvironment in the homeostasis of epithelial transition zones the hot spots of infection and cancer |
| 17:45 | Guo-Li Ming , <i>Johns Hopkins School of Medicine, US</i> Modeling human brain development and diseases using iPSC-based organoids |
| 18:15 | Moritz Werner , <i>Paris, France</i> Lessons how to live with cancer and improve prevention |
| 19:30 –22:00 | Speaker's Dinner |

| Wednesday, 10 October | |
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| Molecular mechanisms of tumor development | |
| Chair: Rocio Sotillo | |
| 09:00 | Maria S. Soengas , <i>Spanish National Cancer Research Centre, Madrid, ES</i> MetAlert mice: a platform for whole-body imaging and pharmacological targeting of metastatic niches |
| 09:30 | Zuzana Storchová , <i>TU, Kaiserslautern, DE</i> Chromothripsis occurrence in micronuclei |
| 09:45 | Elisa Espinet , <i>German Cancer Research Center, Heidelberg, DE</i> Intrinsic hypomethylation induces an antiviral-like status that determines an aggressive subset of pancreatic tumours |
| 10:00 | Ceren Duman , <i>German Cancer Research Center, Heidelberg, DE</i> Targeting Acyl-CoA Binding Protein in Brain Tumors Disrupts Fatty Acid Oxidation and Prolongs Survival |
| 10:15 | Cathrin Brisken , <i>EPFL Lausanne, CH</i> A preclinical model for estrogen receptor positive breast cancer: how the microenvironment matters |
| 10:45 – 11:15 | Coffee Break |
| Systems biology | |
| Chair: Ursula Klingmüller | |
| 11:15 | Elisabeth Murchison , <i>University of Cambridge, UK</i> Transmissible cancers in dogs and Tasmanian devils |
| 11:45 | Christine Sers , <i>Charite, Berlin, DE</i> Targeting RAS oncogenes in colorectal cancer |
| 12:15 | Fanny Vatter , <i>Weill Cornell, New York, US</i> High-dimensional analysis of single human mammary epithelial cells with age |
| 12:30 | Klaus Pantel , <i>UKE Hamburg, DE</i> Liquid Biopsy: Biology and Clinical Applications |
| 13:00 – 14:00 | Lunch – Meet the Speakers |
| Tumor immunology | |
| Chairs: Adelheid Cerwenka, Nina Papavasiliou, Hedda Wardemann | |
| 14:00 | Michaela Di Virgilio , <i>MDC Berlin, DE</i> At the crossroads between genome integrity and diversity |
| 14:30 | Andrea Schietinger , <i>MSKCC, New York, US</i> Molecular programs defining tumor-specific T cell dysfunction |
| 15:00 | Polina Weitzenfeld , <i>The Rockefeller University, New York, USA</i> Enhancing Antibody-mediated Immune Response against Tumor-associated Carbohydrate Antigens by Fc-engineering |
| 15:15 | Qiang Pan Hammarström , <i>Karolinska Institutet, Stockholm, SE</i> Genetic landscape of hepatitis B virus-associated diffuse large B cell lymphoma: insights for novel targeted therapies |
| 15:45 – 16:15 | Coffee Break |

Tumor immunology

Chairs: Adelheid Cerwenka, Nina Papavasiliou, Hedda Wardemann

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| 16:15 | Thomas F. Gajewski, MD, PhD, UChicago Medicine, USA Tumor and host factors regulating anti-tumor immunity and immunotherapy efficacy |
| 16:45 | Fiona Powrie, University of Oxford, UK Inflammation driven cancer: Genes, cells and microbes |
| 17:15 | Kathleen Anders, Max Delbrück Centrum, Berlin, DE Oncogene inactivating drug combined with irradiation and vaccination breaks tolerance against autochthonous tumors |
| 17:30 | Veronika Sexl, University of Veterinary Medicine of Vienna, AT CDK6 – the new kid on the block |
| 18.00 | Panel discussion: “How to make a career in the sciences” Chair: Ursula Klingmüller Participants: Christine Sers, Elaine Mardis, Axel Behrens, Michael Boutros |
| 18:40 – 20:00 | Poster Session |
| 20:00 – 22:00 | Conference Dinner |

Thursday, 11 October

Translational cancer research

Chair: Claudia Scholl

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| 09:00 | Elaine Mardis, The Ohio State University, Columbus, US Creating a System for Pediatric Precision Cancer Medicine |
| 09:30 | Dieter Saur, TUM, Munich, DE Modeling and targeting subtypes of pancreatic cancer |
| 10:00 | Stephanie Heinzlmeir, TUM, Munich, DE 50 shades of kinase inhibition - applications of the target landscape of clinical kinase drugs |
| 10:15 | Yardena Samuels, Weizmann Institute of Science, IL UVB-induced genomic alterations dictates anti-tumor immune response against melanoma |
| 10:45 – 11:15 | Coffee Break |
| Cancer prevention Chair: Karen Steindorf | |
| 11:15 | Ellen Kampman, WUR, Wageningen, NL Fighting fiction and providing facts on nutrition and cancer |
| 11:45 | Christine Holmberg, Medical School Brandenburg, Brandenburg/Havel, DE Health-care providers recommendation to reduce breast cancer risk and benefit /risk tables: NRG Oncology |
| 12:00 | Flora van Leeuwen, NKI, Amsterdam, NL Second malignancies after cancer treatment: risk factors and opportunities for prevention |
| 12:30 | Kathryn Schmitz, PennState, US Frontiers in Cancer Research: Making Exercise Standard Practice |
| 13:00 | Summary and Farewell Ursula Klingmüller, Chair DKFZ Executive Women’s Initiative, Heidelberg, DE |
| 13:30 | Departure |