

Programme of the

# 21<sup>st</sup> Public MMPU Research Day

Friday, 16 November 2018, 13 – 17.00 o'clock

Teaching Building Room 272 (INF 440) of the Heidelberg University Children's, Women's & Dermatology Hospital

- 13:00  **Giving a Sense to Nonsense – Pharmacological Modification of mRNA Surveillance in MSI Colorectal Cancer**  
**Jonas Becker** – MMPU Group Blood Diseases (BD)
- 13:25  **The Accessible Chromatin Landscape of Human Mesenchymal Stem Cells in Ageing**  
**Brian Mang Ching Lai** – MMPU Group Stem Cell-Niche Networks in Ageing and Disease (SCN)
- 13:50  **Unravelling T-ALL Heterogeneity by Single Cell and Single Strand Sequencing**  
**Ashley Sanders** – MMPU Group Molecular Pediatric Oncology (MPO)
- 14:15  **Polarization of TAMs to a Pro-Inflammatory Phenotype by Iron Oxide Nanoparticles as a Lung Cancer Therapy**  
**Natalie Horvat** – MMPU Group Iron Homeostasis (IH)
- 14:40  **Fecal Microbiome Signatures for Early Detection of Colorectal Cancer**  
**Ece Cevirgen** – MMPU Group Cancer Early Detection (CED)
- 15:05  **Role of Sumoylation in Protein Activity Regulation in Diabetic Neuropathy**  
**Daniel Rangel-Rojas** – MMPU Group Chronic Pain (CP)
- 15:30  **Understanding Heterogeneity of Drug Response in Chronic Lymphocytic Leukemia and the Role that Genetics and the Tumour Microenvironment Play**  
**Holly Giles** – MMPU Group Systems Medicine of Cancer Drugs (SMCD)
- 16:00 **NEW! Poster Session and Snacks and Get-Together**  
**Nitin Agarwal**: Functional Roles and Mechanisms of ROS-dependent Sumoylation in Diabetic Neuropathy  
**Aysel Ahadova**: MMR Deficiency is an Early Event in Lynch syndrome Colorectal Cancer Pathogenesis  
**Carolina Araujo Sousa**: Neuropeptidome Analysis of Hypothalamic Neuroendocrine Circuits Regulating Core Body Temperature  
**Silvia Colucci**: Sensing of Liver Iron Content Requires Cell-Cell Communication between Hepatocytes and Liver Sinusoidal Endothelial Cells  
**Büşra Erarslan-Uysal**: Chromatin Accessibility Maps of Human T-cell Development Identify Cell of Origin in Pediatric T-cell Leukemia  
**Pauline Pfuderer**: Elevated Density of High Endothelial Venules in MSI Colorectal Cancers  
**Sophie Rabe**: The Influence of the Bone Marrow Niche on Drug Response Phenotypes of Blood Cancers.  
**Katrin Schrenk-Siemens**: Generation of hESC/hiPSC-derived Peripheral Neurons: a New Approach to Study Primary Nociceptive Neurons  
**Yang Zhou**: RNA Interactome in Osteosarcoma
- 17:00 **END of the Public MMPU Research Day**