

13th BMFZ RETREAT
Schloss Mickeln
April 9/10, 2019

Program
Tuesday, April 9, 2019

14.00 h	Welcome	Arndt Borkhardt
14.15 h – 16.15 h	Session 1	Moderation: Guido Reifenberger
	iMSCs – a promising cell population for regenerative medicine	<u>Lucas Spitzhorn</u> , James Adjaye; Stem Cell Research and Regenerative Medicine
	Establishing novel tools for NK cell-based tumor therapy: CAR NK cells and Laminins	Markus Uhrberg; Transplantation Diagnostics and Cell Therapeutics
	RAF interaction network associated with hypertrophic cardiomyopathy	<u>Marcel Buchholzer</u> , Reza Ahmadian Biochemistry and Molecular Biology II
	A proof of concept study for the use of liquid biopsies	<u>André Franken</u> , Hans Neubauer, Tanja Fehm; Gynaecology
	FIRST-HIT TM – a novel, phenotypic screening platform for the identification of epigenetic drugs targeting maturation arrests in TNBC.	<u>Knud Esser</u> , Hans Neubauer, Tanja Fehm; Gynaecology
	The autophagy-initiating kinase ULK1 controls RIPK1-mediated cell death	Björn Stork; Molecular Medicine I
	The mycotoxin phomoxanthone A induces apoptosis by disrupting the form and function of the inner mitochondrial membrane	Sebastian Wesselborg; Molecular Medicine I
	B cell-mediated maintenance of CD169+ cells is critical for liver regeneration	<u>Yuan Zhuang</u> , Philipp Lang; Molecular Medicine II
16.15 h – 16.45 h	Coffee Break	
16.45 h – 18.45 h	Session 2	Moderation: Sebastian Wesselborg
	NGS analysis options at the GTL	<u>Lena Peitzmann</u> , <u>Tobias Lautwein</u> , Karl Köhrer; Genomics & Transcriptomics Laboratory (GTL), BMFZ
	The molecular evolution of systemic metastatic castration resistant prostate cancer during therapy monitored by analysis of individual circulating tumor cells	<u>Rui Neves</u> , Nikolas Stoecklein; General, Visceral, and Pediatric Surgery
	The clinical relevance of indirect MYC inhibitors for personalized T-ALL treatment	<u>Heinz Ahlert</u> , Sanil Bhatia, Arndt Borkhardt; Pediatric Oncology, Haematology, Clinical Immunology
	The mTOR substrate 4EBP1 regulates the nutrient stress response and facilitates brain cancer tumorigenesis	<u>Gabriel Leprivier</u> , Arndt Borkhardt; Pediatric Oncology, Haematology, Clinical Immunology
	A new detected regulator of the human sonic hedgehog pathway, <i>HHIP-AS1</i> , promotes tumor survival	<u>Jasmin Bartl</u> , Marc Remke; Pediatric Oncology, Haematology, Clinical Immunology
	Microbiome changes profoundly accelerate leukemia-development in susceptible mice?	<u>Stefan Janssen</u> , Ute Fischer, Arndt Borkhardt; Pediatric Oncology, Haematology, Clinical Immunology
	Mechanistic insights into infectious-driven leukemias	Arndt Borkhardt; Pediatric Oncology, Haematology, Clinical Immunology
	Proteomics: a mass spectrometry driven technology	Kai Stühler; Molecular Proteomics Laboratory (MPL), BMFZ
19.00 h	Dinner with discussions	

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9.00 h – 10.45 h	Session 3	Moderation: Arndt Borkhardt
	Dysregulation of a specific immune-related network of genes biologically defines a subset of schizophrenia	<u>Svenja Troßbach</u> , Carsten Korth; Neuropathology
	ADAMTS proteases in Alzheimer's disease	Sascha Weggen; Neuropathology
	Molecular mechanisms of clonal evolution and therapy resistance in glioblastoma	Guido Reifenberger; Neuropathology
	Reverse NCX attenuates cellular sodium loading in metabolically compromised cortex	<u>Niklas Gerkau</u> , Christine Rose; Neurobiology
	Leveraging Whole Genome Optical Mapping (WGOM) to uncover structural variations in genetic research and diagnostics	<u>Harald Surowy</u> , Dagmar Wiczorek; Human Genetics
	Gene expression profiling in aggressive digital papillary adenocarcinoma sheds light on the architecture of a rare sweat gland carcinoma	<u>Anna Giesen</u> , Silke Redler; Human Genetics
	Human brain organoids to model glioblastoma multiforme invasion	Jay Gopalakrishnan; Human Genetics (Applicant)
10.45 h – 11.15 h	Coffee Break	
11.15 h – 13.00 h	Session 4	Moderation: Heiner Schaal
	NKG2C ^{POS} NK cells associated with CMV infection inhibit expansion of activated virus-specific CD8 T cells	<u>Christine Thöns</u> , Jörg Timm, Virology
	Antiretroviral effects of LNA mixmers targeting HIV-1 sequences involved in viral RNA expression	<u>Frank Hillebrand</u> , Heiner Schaal; Virology
	Oral and intravenous transmission of Alpha-Synuclein Prions to mice	<u>Gültekin Tamgüney</u> , Dieter Willbold; Physical Biology, Structural Biochemistry
	Inhibition of amyloid formation through interactions with monomers, oligomers, and fibrils	<u>Wolfgang Hoyer</u> , Dieter Willbold; Physical Biology
	Determining the role of the MICOS-complex subunit Mic13 in mammalian cells	<u>Jennifer Urbach</u> , Andreas Reichert; Biochemistry and Molecular Biology I
	Synthetic cytokine receptors – chances and challenges	<u>Erika Engelowski</u> , Jürgen Scheller; Biochemistry and Molecular Biology II
	How caffeine fires up the powerhouses of cells	<u>Judith Haendeler</u> , Joachim Altschmied; Heisenberg Group, IUF- Leibniz Research Institute for Environmental Medicine
13.00 h – 14.00 h	Lunch	
	End of the retreat	