

**14<sup>th</sup> BMFZ RETREAT**  
**Kardinal-Schulte-Haus**  
**Bergisch-Gladbach**  
**September 22./23, 2022**

**Program**  
**Thursday, September 22, 2022**

<b>14.00 h</b>	<b>Welcome</b>	<b>Andreas Reichert</b>
<b>14.15 h – 16.00 h</b>	<b>Session 1</b>	<b>Chair: Ute Fischer</b>
	Integration of high-throughput drug screening and molecular profiling as a precision medicine paradigm for high risk brain cancer	<u>Nan Qin</u> , Mark Remke; Pediatric Oncology, Hematology, Clinical Immunology
	To overcome glucocorticoid resistance in pediatric T-cell acute lymphoblastic leukemia	<u>Sanil Bhatia</u> , Arndt Borkhardt; Pediatric Oncology, Haematology, Clinical Immunology
	Metabolic adaptation to glucose starvation: a role for the mTOR substrates 4EBPs	<u>Gabriel Leprivier</u> , Guido Reifenberger; Neuropathology
	The mycotoxin viriditoxin induces leukemia- and lymphoma-specific apoptosis by targeting mitochondrial metabolism	Sebastian Wesselborg; Molecular Medicine I
	Challenges and opportunities of CTC-analysis to track the molecular evolution of systemic disease during therapy	<u>Rui Neves</u> , Nikolas Stoecklein; General, Visceral, and Pediatric Surgery
	a. Differential ion mobility spectrometry	a. <u>Anja Stefanski</u> , b. <u>Gereon Poschmann</u> , Kai Stühler; Molecular Proteomics Laboratory (MPL), BMFZ
	b. Functional redox-proteomics: identification of molecular switches controlling tumor cell behavior	
<b>16.00 h – 16.30 h</b>	<b>Coffee Break</b>	
<b>16.30 h – 18.30 h</b>	<b>Session 2</b>	<b>Chair: Hans Neubauer</b>
	PGRMC1: a multifunctional co-regulator of breast cancer progression	<u>Nadja Stamm</u> , Hans Neubauer, Tanja Fehm; Gynecology
	Molecular characterization of circulating tumor cells to select targeted therapies	<u>André Franken</u> , Hans Neubauer, Tanja Fehm; Gynecology
	Long-Read transcriptomics in diabetes and myocardial Infarction	<u>Daniel Oehler</u> , Malte Kelm; Cardiology
	Advantages of Cite-Seq-based experiments on cardiovascular disease	<u>Alexander Lang</u> , Norbert Gerdes; Cardiology
	Finding miRNA biomarkers to grade dysplasia of pancreatic lesions	<u>Sarah Schweier</u> , Gunnar Klau; Algorithmic Bioinformatics
	Structural variation and the need for a human pangenome	Tobias Marschall; Medical Biometry and Bioinformatics
	a. Single Cell transcriptome analyses	a. <u>Tobias Lautwein</u> , b. <u>Tassilo Wollenweber</u> , Karl Köhrer; Genomics & Transcriptomics Laboratory (GTL), BMFZ
	b. NGS Long-Read sequencing workflows	
<b>19.00 h</b>	<b>Dinner with discussions</b>	

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<b>9.00 h – 10.45 h</b>	<b>Session 3</b>	<b>Chair: Heiner Schaal</b>
	The role of polysaccharides in arenavirus infections	<u>Michal Gorzkiewicz</u> , Philipp Lang; Molecular Medicine II
	Modeling splicing outcome by combining 5'ss strength and splicing regulatory elements	<u>Johannes Ptok</u> , Heiner Schaal; Virology
	Development and application of Cytokimeras	<u>Puyan Rafii</u> , Jürgen Scheller; Biochemistry and Molecular Biology II
	IL-31-producing T cells represents a unique population of CLA <sup>+</sup> CRTH2 <sup>+</sup> CCR4 <sup>+</sup> TH2 memory cells	<u>Cristina Gomezcasado</u> , Bernhard Homey; Dermatology
	Structural dynamics of intrinsically disordered proteins at the membrane interface	<u>Nils-Alexander Lakomek</u> , Dieter Willbold; Biophysics
	Translational cardiology	Amin Polzin; Cardiology
	Inter-kingdom communication: signalling between bacteria and its host	Sebastian Fraune; Zoology and Organismic Interactions (Applicant)
<b>10.45 h – 11.15 h</b>	<b>Coffee Break</b>	
<b>11.15 h – 12.30 h</b>	<b>Session 4</b>	<b>Chair: Andreas Reichert</b>
	Glycomimetic drugs targeting infection, inflammation, and cancer	Jonathan Cramer; Pharmaceutical and Medical Chemistry (Applicant)
	Two-component hydrogels for biomedical applications	Michael Hacker; Pharmaceutical Technology and Biopharmacy (Applicant)
	Targeting the CNS with CAR T cells	<u>Shada Elhayek</u> , Norbert Goebels; Neurology
	Human pluripotent stem cells for modeling mitochondrial neurological disorders (AP)	Alessandro Prigione; General Pediatrics
	Energy metabolism	<u>Mona Hendlinger</u> , Michael Roden; German Diabetes Center - Endocrinology and Diabetology
	Mouse genomics and the effect of insulin on splicing	<u>Stephan Majda</u> , Hadi Al-Hasani; German Diabetes Center - Clinical Biochemistry and Pathobiochemistry
	Autophagy: a cellular recycling machinery and a target for drug discovery	Björn Stork; Molecular Medicine I
<b>13.00 h – 14.00 h</b>	<b>Lunch</b>	
	<b>End of the retreat</b>	