15th BMFZ RETREAT
Kardinal-Schulte-Haus
Bergisch-Gladbach
September 25/26, 2023

Program
Monday, September 25, 2023

14.00 h	**Welcome**	**Andreas Reichert**
14.15 h – 16.00 h	**Session I**	**Chair: Heiner Schaal**
	Interleukin-6 forms a tetrameric receptor signaling complex under physiologic	Christiane Seibel, Jürgen Scheller; Biochemistry and Molecular Biology II
	Regulatory sequence elements in viral genomes decide RNA processing pathways	Lisa Müller, Heiner Schaal; Virology
	Microbe-host interaction in chronic stem inflammation	Bernhard Homey; Dermatology
	Reprogramming-driven drug discovery identifies an efficacious repurposing candidate for the treatment of Leigh syndrome patients	Annika Zink, Alessandro Prigione; General Pediatrics
	A purely thermodynamic anti-prionic mode of action for the treatment of neurodegenerative diseases	Dieter Willbold; Biophysics
	MAS-Seq - combining single cell RNA sequencing & long-read sequencing	a. Tobias Lautwein/Karl Köhrer Genomics & Transcriptomics Laboratory (GTL), BMFZ
	GTL & WGGC as part of the NGS Competence Network	b. Karl Köhrer, GTL / Iuliia Novoselova, WGGC
16.00 h – 16.30 h	**Coffee Break**	
16.30 h – 18.30 h	**Session II**	**Chair: Andreas Reichert**
	Targeting sphingosin-1-phosphate to prevent progression of aortic valve stenosis	Marcel Benkhoff, Amin Polzin; Cardiology
	Deciphering immune cell heterogeneity in experimental aneurysm using scRNA- and CITE sequencing	Christin Elster, Norbert Gerdes; Cardiology
	Effect of dimethyl fumarate on cerebral mitochondrial metabolism in a porcine model of pediatric in-hospital cardiac arrest	Sarah Piel, Amin Polzin, Malte Kelm; Cardiology
	The hitchhiker`s guide to mitochondrial telomerase reverse transcriptase (TERT) in the cardiovascular system	Joachim Altschmied; Cardiovascular Degeneration/ Clinical Chemistry
	Endothelial cell senescence and angiogenesis/migratory capacity	Judith Haendeler; Cardiovascular Degeneration/ Clinical Chemistry
	Live-cell super-resolution nanoscopy reveals modulation of cristae dynamics in bioenergetically compromised mitochondria	Arun Kondadi, Andreas Reichert; Biochemie and Molecular Biology I
	DIA - a young method on its way to becoming the new gold standard in protein mass spectrometry	Anja Stefanski, Kai Stühler; Molecular Proteomics Laboratory (MPL), BMFZ
19.00 h	**Dinner with discussions**	

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9.00 h – 10.45 h	**Session III**	**Chair: Ute Fischer**
	Identification of selective autophagy inhibitors targeting the ATG13-ATG101 protein-protein interaction	Björn Stork; Molecular Medicine I
	Novel meriolin derivatives activate the mitochondrial apoptosis pathway in the presence of antiapoptotic Bcl-2 protein	Sebastian Wesselborg; Molecular Medicine I
	Molecular characterization and identification of novel therapeutic options for the treatment of germ cell tumors	Margaretha Skowron, Daniel Nettersheim; Urology
	Oncogenic RAS pathway: redefining the role of a key modulator of ferroptosis sensitivity	Jonathan Lim, Guido Reifenberger; Neuropathology
	HOGVAX: Exploiting epitope overlaps to maximize population coverage in vaccine design	Sara Schulte, Gunnar Klau; Algorithmic Bioinformatics
	Assembly of 43 human Y chromosomes reveals extensive complexity and variation	Tobias Marschall; Medical Biometry and Bioinformatics
	Exploring the ancestral role of the conserved progesterone receptor PGRMC1 in basal metazoan Hydra vulgaris AEP	Jay Bathia, Sebastian Fraune; Zoology and Organismic Interactions
10.45 h – 11.15 h	**Coffee Break**	
11.15 h – 12.45 h	**Session IV**	**Chair: Hans Neubauer**
	How hereditary breast cancer may get its start?	Helmut Pospiech, Tanja Fehm; Gynecology
	Targeting Triple-Negative Breast Cancer dysregulated neutral lipid metabolism as an innovative approach for precision medicine	Knud Esser, Tanja Fehm; Gynecology
	Introducing the Liquid Biopsy Center Duesseldorf	Hans Neubauer, Tanja Fehm; Gynecology
	Tumor dissemination: the role of the sialyltransferase ST3GAL1 for regional lymph node metastases, and the use of liquid biopsies to assess systemic spread	Rui Neves, Nick Stoecklein, General Surgery
	Whole genome optical mapping for identification of genetic structural variations	Ute Fischer, Arndt Borkhardt; Pediatric Oncology, Hematology, Clinical Immunology
	The role of B-cells in healthy and diseased states	Marc Seifert, Sascha Dietrich (Applicant); Oncology, Hematology, Clinical Immunology
13.00 h – 14.00 h	**Lunch**	
	End of the retreat	

Anfahrtsbeschreibung

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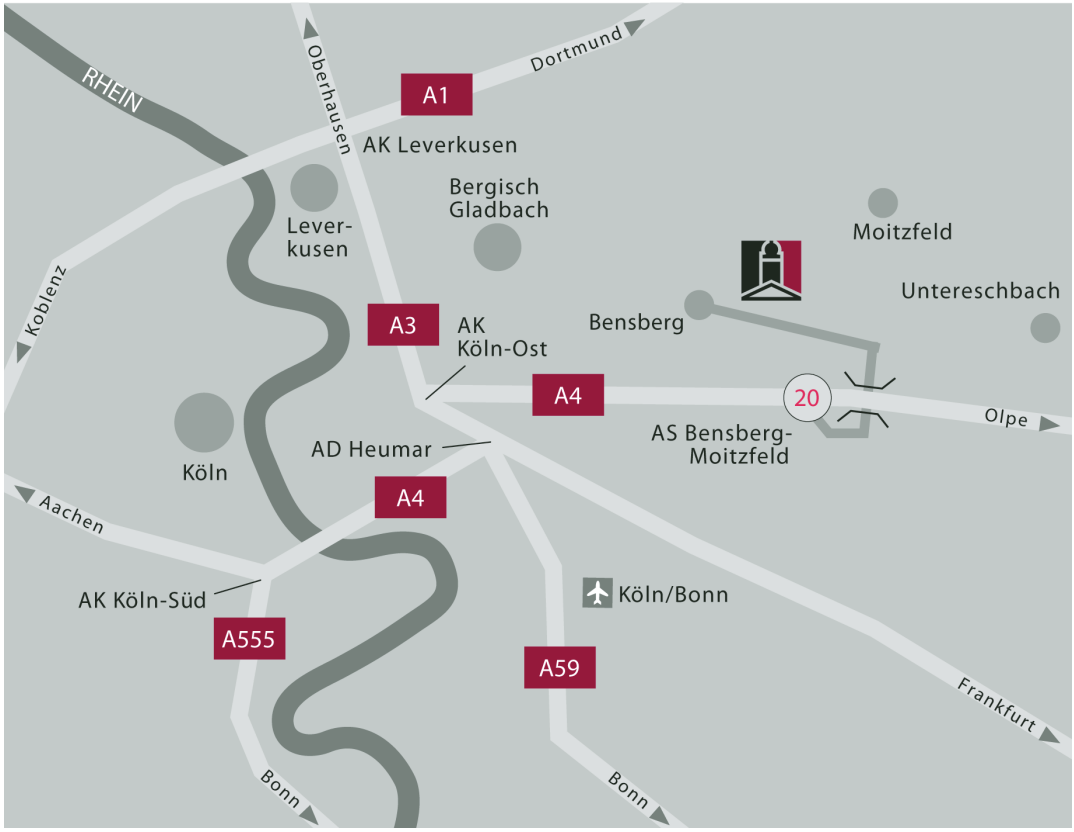

Mit dem PKW:
Über A4: Bis Anschlussstelle Nr. 20 Bensberg Moitzfeld. An der Kreuzung links auf die L136 Richtung Bensberg. Nach ca. 700m rechts durch den Torbau hinauf zum Kardinal Schulte Haus.

Mit öffentlichen Verkehrsmitteln:
Die Bushaltestelle "Thomas-Morus-Akademie" liegt direkt unterhalb des Kardinal Schulte Hauses.

Von Köln Hbf mit dem Schnellbus Linie "SB40" bis zur Endhaltestelle "Bensberger Bahnhof". Ab "Bensberger Bahnhof" nehmen Sie eine der folgenden Linien: Linie 420 (so heißt die SB40 ab Bahnhof Bensberg) in Richtung Overath Bahnhof, Linie 227 in Richtung Moitzfeld/Steinacker, Linie 421 in Lindlar Busbahnhof, Linie 454 in Richtung Bechen Mitte. An Sonn- und Feiertage fährt der Schnellbus nicht.

Oder mit der S-Bahn 11 bis Bergisch Gladbach, dann mit dem Bus, Linie 227 in Richtung Moitzfeld/Steinacker.

Vom Bahnhof Köln-Deutz mit der Straßenbahn 1 bis zur Endhaltestelle Bensberg, dann entweder zu Fuß (ca. 15 Minuten) oder mit dem Bus Linie 227, 420, 421 oder 454, nur eine Haltestelle weiterfahren.

BMFZ
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