

BMFZ-Meeting in Düsseldorf, September 17-18, 2012

“Novel Methods in Biomedical Research – Recent Advances and Perspectives”

Scientific Program

Monday, September 17, 2012

13.00 h	Address of welcome	Guido Reifenberger, Düsseldorf
Session I: High-resolution fluorescence imaging methods – Applications in cancer research and diagnostics		
13.05 h	Strategies for cancer diagnostics by novel fluorescence imaging concepts	Jerker Widengren, Stockholm, Sweden
13.40 h	Fine needle aspiration sampling combined with subcellular proteomic characterization: A diagnostic procedure for the future	Gert Auer, Stockholm, Sweden
14.10 h	Diagnosis of cancer cells by multiparameter fluorescence image spectroscopy	Claus Seidel, Düsseldorf
14.35 h	Bioinformatic evaluation of fluorescence images for cancer diagnosis	Ville Rantanen, Helsinki, Finland
15.00 h	Coffee break	
Session II: Molecular profiling in cancer research and diagnostics		
15.30 h	Genome-wide molecular profiling of pediatric brain tumors	Stefan Pfister, Heidelberg
16.10 h	Characterization of RNA-protein interaction networks using PAR-CLIP	Jessica Höll, Düsseldorf
16.25 h	Diagnostic leukapheresis for personalized medicine in cancer patients	Nikolas Stoecklein, Düsseldorf
16.40 h	Coffee break	
Session III: Structural biology approaches to study protein folding, aggregation and degradation		
17.00 h	The gating mechanism of archaeal proteasome	Tomasz Religa, Cleveland, Ohio
17.40 h	Structure activity relationship of protein aggregates in health and disease	Roland Riek, Zurich, Switzerland
18.20 h	A β oligomer targeted therapy and diagnosis of Alzheimer's disease	Dieter Willbold, Düsseldorf
18.40 h	Presentation of the Ulrich-Hadding Research Award 2012	Lutz Schmitt, Düsseldorf
	Structure of an intermediate state in protein folding and aggregation	Philipp Neudecker, Düsseldorf
19.30 h	Get together and informal dinner at the Jazz-Schmiede, Düsseldorf	

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Session IV: Optogenetic modulation, neuroimaging and systems neuroscience		
9.00 h	Optogenetic manipulation of synaptic transmission, neural circuits and behavior	Alexander Gottschalk, Frankfurt/Main
9.40 h	Network oscillations supporting memory encoding in the hippocampus	Jozsef Csicsvari, Vienna, Austria
10.20 h	The neurobiology of action control: Physiology and pathology	Simon Eickhoff, Düsseldorf
10.40 h	A transgenic rat model for DISC1opathies, mental illnesses associated with aggregated DISC1	Carsten Korth, Düsseldorf
11.00 h	Coffee break	
Session V: Stem cells and regenerative medicine		
11.30 h	Human induced pluripotent stem cells: From mechanisms to personalized medicine	James Adjaye, Düsseldorf
12.00 h	Modeling neurodegenerative disease by means of stem cell-based cell systems	Philipp Koch, Bonn
12.30 h	Functional improvement after transplantation of somatic stem cells from human umbilical cord blood into the injured spinal cord	Jessica Schira, Düsseldorf
12.45 h	Conclusion of the meeting	Guido Reifenberger, Düsseldorf
13.15 h	Lunch at the Campus Vita Restaurant, Düsseldorf	

Location: Heinrich Heine University Düsseldorf, Lecture Hall 13B, Building 13.55

Date: September 17-18, 2012

Program Committee: Guido Reifenberger, Carsten Korth, Alfons Schnitzler, Claus Seidel, Dieter Willbold

Organisation: Cornelia Höner

Registration:
online: <http://www.BMFZ.de> (see BMFZ - Meeting 2012)

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