

## e:Med Meeting on Systems Medicine 2015 - October 26-28 - DKFZ, Heidelberg

### Preliminary Program\_151013

Time	Mo 26 Oct	
12:30 - 01:00 pm	Registration & Welcome Coffee	
<b>01:00 - 01:15 pm</b>	<b>Welcome Notes</b>	
	Klaus-Peter Michel Bundesministerium für Bildung und Forschung (BMBF) Karsten Rippe, Spokesperson of the e:Med Project Committee	
<b>01:15 - 02:45 pm</b>	<b>I Epigenetics &amp; Transcriptomics - Keynotes</b>	<b>Speaker</b>
	<i>Chair: Philip Rosenstiel</i>	
01:15 - 01:45 pm	Dissecting epigenetic networks	Karsten Rippe, DKFZ Heidelberg
01:45 - 02:15 pm	Epigenomics – from mapping to functional interpretation	Jörn Walter, Saarland University
02:15 - 02:45 pm	Transcriptome profiling by RNA-sequencing and its clinical application	Dirk Hose, University Hospital Heidelberg
<b>02:45 - 03:15 pm</b>	<b>I Epigenetics &amp; Transcriptomics - Short Talks</b>	<b>Speaker</b>
	<i>Chair: Dirk Hose</i>	
02:45 - 03:00 pm	A multi-omics approach to decipher drug specific response signatures in the treatment of IBD	Berenice Brandt, University Hospital Schleswig-Holstein
03:00 - 03:15 pm	The microRNAome as a Biomarker Signature for Brain Diseases	Gaurav Jain, German Center for Neurodegenerative Diseases
03:15 - 03:45 pm	Coffee Break	
<b>03:45 - 05:45 pm</b>	<b>II Genome Editing - Keynotes</b>	<b>Speaker</b>
	<i>Chair: Wolfgang Wurst</i>	
03:45 - 04:15 pm	CRISPR/Cas9 Technology: Universal Tool for Functional Genome Annotation	Wolfgang Wurst, Helmholtz Zentrum München
04:15 - 04:45 pm	Applications of CRISPR/Cas9 and Discovery of new CRISPR Systems	Omar Abudayyeh, MIT, Harvard, Cambridge, USA
04:45 - 05:15 pm	CRISVar: Generating structural variations to study the 3D organization of the genome in disease	Darío Jesús García Lupiáñez, MPI for Molecular Genetics Berlin
05:15 - 05:45 pm	Crispr/Cas9 technology for genome engineering in adult animals: disease modeling and therapeutic application	Hao Yin, MIT, Harvard, Cambridge, USA
05:45 - 06:00 pm	Coffee Break	
<b>06:00- 07:00 pm</b>	<b>Evening Lecture</b> From Systems Biology to Systems Medicine -An Avalanche is coming-	<b>Rudi Balling, University of Luxembourg</b>
07:00 - 10:00 pm	<b>Networking</b> posters, wine & snacks at the venue	

Time		Tue 27 Oct	
08:30 - 09:00 am	Welcome Coffee		
<b>09:00 - 10:30 am</b>	<b>III Cardiovascular Diseases - Keynotes</b> <i>Chair: Heribert Schunkert</i>	<b>Speaker</b>	
09:00 - 09:30 am	Systems medicine in cardiovascular diseases	Jeanette Erdmann, University of Lübeck	
09:30 - 10:00 am	Systems Medicine of Heart Failure – SMART	Sarah Nordmeyer, Deutsches Herzzentrum Berlin	
10:00 - 10:30 am	Improved prediction of disease-associated SNPs in genome-wide association data by Bayesian modelling and data integration	Johannes Soeding, MPI for Biophysical Chemistry, Göttingen	
10:30 - 11:00 am	Coffee Break		
<b>11:00 - 12:30 pm</b>	<b>III Cardiovascular Diseases - Short Talks</b> <i>Chair: Jeanette Erdmann</i>	<b>Speaker</b>	
11:00 - 11:15 am	Analysis of coxibs pleiotropic molecular targets reveals novel genomic loci conferring coronary artery disease risk	Ingrid Brænne, University of Lübeck	
11:15 - 11:30 am	Data warehouse for coronary artery disease	Helmut Spengler / Thorsten Kessler, TU München	
11:30 - 11:45 am	Epistatic effects in coronary disease risk	Lingyao Zeng, German Heart Centre Munich	
11:45 - 12:00 pm	Delineating the Dynamic Transcriptome Response During Heart Regeneration in Zebrafish	Melanie Boerries, University of Freiburg	
12:00 - 12:15 pm	Functional analysis of atrial fibrillation GWA loci	Matthias Heinig, Helmholtz Zentrum München	
12:15 - 12:30 pm	Paxillin-FAK-Vinculin signaling regulates cardiac contractility in zebrafish	Sofia Hirth, Ulm University Medical Center	
<b>12:30 - 02:30 pm</b>	<b>Lunch Break</b>		
	<b>Poster Session</b> (12:30 - 01:30 pm odd numbers; 01:30 - 02:30 even numbers)		
01:00 - 02:00 pm	Poster Walks		

<b>02:30 - 03:10 pm</b>	<b>e:Med Project Groups</b>	<b>Speaker</b>
02:30 - 02:40 pm	PG Informatics and Modelling	Matthias Ganzinger, Universität Heidelberg
02:40 - 02:50 pm	PG Data Security and Ethics	Marcella Rietschel, ZI Mannheim; Ulrich Sax, University Medical Center Göttingen
02:50 - 03:00 pm	PG Epigenetics & Sequencing	N.N.
03:00 - 03:10 pm	PG Processing of Imaging data	Holger Erfle / Manuel Gunkel, BioQuant Center for Quantitative Analysis of Molecular and Cellular Biosystems, Heidelberg
03:10 - 03:30 pm	Coffee Break	
<b>03:30 - 05:00 pm</b>	<b>IV Computational Approaches &amp; Clinical Utilities - Keynotes</b>	<b>Speaker</b>
	<i>Chair: Ingo Röder</i>	
03:30 - 04:00 pm	Integrating omics data in cohort studies	Fabian Theis, Helmholtz Zentrum München
04:00 - 04:30 pm	Mathematical models and the emergence of chemotherapy resisters	Thomas Höfer, DKFZ Heidelberg
04:30 - 05:00 pm	Identification of novel causal genes in rare diseases: a Bayesian approach	Julien Gagneur, LMU München
05:00 - 05:30 pm	Coffee Break	
<b>05:30 - 07:00 pm</b>	<b>IV Computational Approaches &amp; Clinical Utilities - Short Talks</b>	<b>Speaker</b>
	<i>Chair: Hamid Noori</i>	
05:30 - 05:45 pm	Mutational and gene expression landscapes of tumor-xenograft pairs in PDAC reveal the strength of pure tumor models and differences in their cancerogeneity	Matthias Schlesner, DKFZ Heidelberg
05:45 - 06:00 pm	Parametrization and iterative improvement of agent-based mathematical models with spatial data from human biopsies	Friedrich Feuerhake, Hannover Medical School
06:00 - 06:15 pm	Novel approaches to understanding biological pathway perturbations associated with clinical phenotypes	Cavin Ward-Caviness, Helmholtz Zentrum München
06:15 - 06:30 pm	Improving causal effect estimation from virtual perturbations with accumulation IDA	Julia C. Engelmann, University of Regensburg
06:30 - 06:45 pm	Analysis of T-cell repertoire kinetics on single clone level shows immune correlate of Influenza vaccine protective response to newly emerged strain	Avidan U. Neumann, Charité University Hospital, Berlin; University of Zurich
06:45 - 07:00 pm	Systems medicine approach to personalized immunosuppressive treatment at early stage after kidney transplantation	Michal Or-Guil, Humboldt University Berlin
07:00 - 11:00 pm	<b>Networking</b> (only with previous registration) <ul style="list-style-type: none"> <li>• From 8 pm dinner in the Heidelberg historic center at Kulturbrauerei</li> <li>• After dinner at 10 pm Guided Tour "Through the dark alleys of Heidelberg with the night watchman".</li> </ul>	

Time	Wed 28 Oct	
08:30 - 09:00 am	Welcome Coffee	
<b>09:00 - 10:30 am</b>	<b>V Cancer - Keynotes</b> <i>Chair: Hartmut Goldschmidt</i>	<b>Speaker</b>
09:00 - 09:30 am	Systems Medicine Approaches in Cancer Research	Angelika Eggert, Charité University Hospital, Berlin
09:30 - 10:00 am	Comprehensive genomic profiles of small cell lung cancer	Martin Peifer, University of Cologne
10:00 - 10:30 am	Telomerase activation by genomic rearrangements in high risk neuroblastoma	Matthias Fischer, University Hospital Cologne
<b>10:30 - 11:30 pm</b>	<b>ELSA of Systems Medicine</b> <i>Chair: Matthias von Witsch</i>	<b>Speaker</b>
10:30 - 10:35 am	Introducing ELSA of Systems Medicine	Matthias von Witsch, DLR Projektträger Bonn
10:35 - 10:55 am	Challenges of Big Data for Data Protection in Biomedical Research	Irene Schlünder, TMF e.V Berlin
11:00 - 11:15 am	The ambivalent situation of BRCA mutation carriers. Transdisciplinary perspectives ELSA Project SYSKON	Peter Dabrock, University of Erlangen and Rita Schmutzler, University and University Clinics Cologne
11:15 - 11:30 am	Do patients have a right to receive their genetic raw data from sequencing studies? ELSA Project DASYMED	Henrike Fleischer, IMGB Christoph Schickhardt, NCT, Mannheim and Heidelberg
11:30 - 12:00 am	Coffee Break	
<b>12:00 - 01.30 pm</b>	<b>V Cancer - Short Talks</b> <i>Chair: Angelika Eggert</i>	<b>Speaker</b>
12:00 - 12:15 pm	Identifying telomere maintenance mechanisms in glioblastoma cell lines and primary tumor samples	Katharina Deeg, DKFZ Heidelberg
12:15 - 12:30 pm	Causal modeling of stroma-cancer cell communication	Julia C. Engelmann, University of Regensburg
12:30 - 12:45 pm	Multiscale modelling of vascular dependent tumor growth in hepatocellular carcinoma (HCC) under therapy with transarterial chemoembolization (TACE)	Tanvi Joshi, University of Stuttgart
12:45 - 01:00 pm	Dimerized EGFR-targeted protein formats of single-chain TNF-related apoptosis inducing ligand (TRAIL) are highly effective antitumor therapeutics	Martin Siegemund, University of Stuttgart
01:00 - 01:15 pm	The TIPC project: T-cell therapy In Pancreatic Cancer	Rienk Offringa, DKFZ Heidelberg
01:15 - 01:30 pm	Mutational dynamics between primary and relapsing neuroblastoma	Alexander Schramm, University Childrens`s Hospital Essen
<b>01:30 - 01:45 pm</b>	<b>Closing Remarks</b> Jeanette Erdmann, Spokesperson of the e:Med Project Committee	
01:45 - 02:30 pm	Coffee & Snacks	