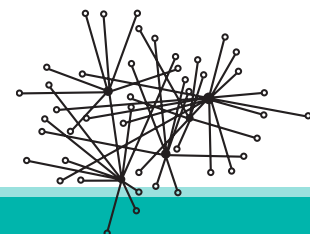


Integrative 'Omics' Approaches to Disease Mechanisms - From emerging technologies to new perspectives

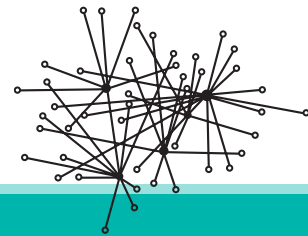
Freiburg-Munzingen, October 9-11, 2011



Sun, October 9	Speaker	Title
12:00 - 14:00	Registration	
Genomics / Transcriptomics Session (Chair Leena Bruckner-Tuderman & Judith Fischer)		
14:00 - 14:45	Judith Fischer (University Freiburg - Medical Center)	Genomics and Personalized Medicine
14:45 - 15:15	Kathryn Cheah (University of Hong Kong)	Mechanistic insights into chondrodysplasia caused by ER stress revealed by genetic and transcriptome analyses
15:15 - 15:30	Short Talk: Gibran Hemani (University of Edinburgh)	An evolutionary perspective on epistasis and the missing heritability
15:30 - 16:00	Coffee Break	
16:00 - 16:30	Stephan Weidinger (University Hospital Schleswig-Holstein)	Omics approaches to allergic diseases
16:30 - 16:45	Short Talk: Dirk Prawitt (University Medicine Mainz)	Analysing allele specific chromatin interactions
16:45 - 17:15	David E. Housman (Massachusetts Institute of Technology)	Using Omics technologies to Understand and Develop Therapies for Trinucleotide Repeat Disorders: Huntington's Disease and Myotonic Dystrophy
17:15 - 19:00	Poster Session 1: Genomics/Transcriptomics and Proteomics	
19:00 - 20:00	Key Note Lecture: Chris Overall (University of British Columbia)	Travelling to the Ends of the Proteome World: Multiplex N and C-Terminomics Functional Annotates Proteolytically Processed Proteomes
from 20:00	Dinner	
Mon, October 10	Speaker	Title
Proteomics Session (Chair Bettina Warscheid and Connie R. Jiménez)		
09:00 - 09:45	Connie R. Jiménez (VU Univ. Medical Center, Amsterdam)	Label-free mass spectrometry-based proteomics for cancer biomarker discovery and validation in tissues and biofluids
09:45 - 10:15	Blagoy Blagoev (Univ. of Southern Denmark Odense)	Signaling events in human embryonic stem cells
10:15 - 10:30	Short Talk: Heiko Hermeking (LMU Munich)	Analysis of the p53/microRNA network using proteomics and transcriptomics
10:30 - 11:00	Coffee Break	
11:00 - 11:30	Helmut E. Meyer (Ruhr University Bochum)	High-Performance Proteomics
11:30 - 11:45	Short Talk: Oliver Schilling (University of Freiburg)	Protease Specificity Profiling with Proteome-derived Peptide Libraries
11:45 - 12:15	Kathryn Lilley (University of Cambridge)	Spatial proteomics: methods to look for global trafficking routes in cells
12:15 - 14:00	Poster Session 2 with lunch: Metabolomics and System Biology/Modeling	
Metabolomics Session (Chair Bernd Kammerer and Uwe Sauer)		
14:00 - 14:45	Uwe Sauer (ETH Zurich)	The next dimension in high-throughput metabolomics
14:45 - 15:15	Julian Griffin (University of Cambridge)	Understanding systemic metabolism in diabetes and obesity one PPAR at a time
15:15 - 15:30	Short Talk: Stefan Kempa (MDC Berlin)	Analysis of the metabolic response of human cells to glucose and oxygen
15:30 - 16:00	Coffee Break	
16:00 - 16:30	Jerzy Adamski (Helmholtz Zentrum München)	Genetic impact on the metabolome
16:30 - 16:45	Short Talk: Hannes Link (ETH Zürich)	Identification of protein-metabolite interactions that mediate allosteric enzyme regulation in bacterial metabolism
16:45 - 17:15	Frank J. Gonzalez (National Institutes of Health Bethesda)	Metabolomics in the search for disease and toxicity biomarkers
17:15 - 18:15	Key Note Lecture: Ruedi Abersold (ETH Zürich)	Perturbed Protein Networks in Cancer
from 19:00	Conference Dinner	

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Tue, October 11	Speaker	Title
Systems Biology/Modeling Session (Chair Hauke Busch and Hans-Werner Mewes)		
09:30 - 10:15	Hans-Werner Mewes (Technical University Munich)	Truth and Causality - Modeling Biological Systems
10:15 - 10:45	Marta Cascante (University of Barcelona)	The metabolic alterations as new targets in the design of therapies for multifactorial diseases
10:45 - 11:00	Short Talk: Jennifer Neumann (DKFZ Heidelberg)	Transcriptomic Profiling Predicts Rocaglamide Effectiveness on Apoptosis in Cancer Cells
11:00 - 11:30	Coffee Break	
11:30 - 12:00	David B. Jackson (LIFE Biosystems AG Heidelberg)	Integrative approaches to personalized patient safety
12:00 - 12:15	Short Talk: Tom Michoel (FRIAS, University of Freiburg)	Understanding cardiovascular disease through multi-tissue network model reconstruction
12:15 - 12:45	Volker Stümpflen (Helmholtz Centre Munich)	Qualitative Models and Semantic Text Mining
12:45 - 13:00	Closing remarks	
13:00 - 14:00	Lunch	