



FRIAS

FREIBURG INSTITUTE
FOR ADVANCED STUDIES
ALBERT-LUDWIGS-
UNIVERSITÄT FREIBURG
SCHOOL OF
LIFE SCIENCES – LIFENET



CONFERENCE: „INTEGRATIVE ‚OMICS‘ APPROACHES TO DISEASE MECHANISMS – FROM EMERGING TECHNOLOGIES TO NEW PERSPECTIVES“ OCTOBER 9–11, 2011

The post-genomic era opens up unprecedented possibilities for gaining detailed insight into the molecular basis of cellular organization. However, it is still a major challenge to turn this newly obtained information into biological knowledge to understand molecular disease mechanisms and pathogenesis. The complexity of single cells up to the entire human organism can be attributed to the irreducible intricacy and entanglement of gene and protein interaction networks. 'Omics' technologies, meaning large scale studies of bio-molecules, allow to thoroughly investigate diseases with the goal to identify underlying molecular networks and new drugable targets. However, the wealth of data generated by these approaches requires interdisciplinary cooperation to integrate, computationally analyze, and model these data for developing a plastic picture of a specific disease state. This conference brings together renowned experts of the 'Omics' areas genomics/transcriptomics, metabolomics, and proteomics as well as of theoretical sciences to foster cross-disciplinary communication.

Confirmed Speakers include:

Ruedi Aebersold, ETH Zurich
Jerzy Adamski, Helmholtz Zentrum Munich
Blagoy Blagoev, University of Southern Denmark, Odense
Marta Cascante, University of Barcelona
Kathryn Cheah, University of Hong Kong
Judith Fischer, University Medical Center Freiburg, ZBSA
Julian Griffin, University of Cambridge
Frank J. Gonzalez, National Institutes of Health, Bethesda
David E. Housman, Massachusetts Institute of Technology
David B. Jackson, LIFE Biosystems, Heidelberg
Kathryn Lilley, University of Cambridge
Hans-Werner Mewes, Technical University Munich
Helmut E. Meyer, Ruhr University Bochum
Chris Overall, University of British Columbia
Uwe Sauer, ETH Zurich

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Location:

Schloss Reinach,
Freiburg-Munzingen, Germany

Information:

www.frias.uni-freiburg.de/omicsdisease