

The ABC of Life Science Informatics: Mini-Symposium of Bioinformatics and Cheminformatics

Research Groups from the
Aachen-Bonn-Cologne Region

DECEMBER 11, 2015 | LECTURE HALL

Bonn-Aachen International Center
for Information Technology (B-IT)

Dahlmannstraße 2
53113 Bonn



Fraunhofer Institute for Algorithms and Scientific
Computing



Rheinische Friedrich-Wilhelms-
Universität Bonn



Bonn-Aachen International Center for Information
Technology B-IT | Dahlmannstraße 2 | 53113 Bonn

Agenda

09:00
Welcoming/Coffee

09:30
INTRODUCTORY REMARKS
Prof. Dr. Martin Hofmann-Apitius

Bonn-Aachen International Center for Information Technology (B-IT)
& Fraunhofer Institute for Algorithms and Scientific Computing SCAI

09:50
ENTERING THE BIG DATA ERA IN MEDICINAL CHEMISTRY
Prof. Dr. Jürgen Bajorath

Bonn-Aachen International Center for Information Technology (B-IT)

10:15
LEARNING (FROM) THE ERRORS OF A SYSTEMS BIOLOGY MODEL
Prof. Dr. Maik Kschischo

University of Applied Sciences Koblenz/Remagen

10:40
Coffee Break

11:10
GENOMICS AND EPIGENOMICS AT LIMES
Prof. Dr. Joachim Schultze

Laboratory for Genomics and Immunoregulation LIMES,
University of Bonn

11:35
CROP BIOINFORMATICS
Prof. Dr. Heiko Schoof

University of Bonn, INRES Crop Bioinformatics

12:00
PROBABILISTIC MODELS FOR PERSONALIZED MEDICINE AND SYSTEMS BIOLOGY
Prof. Dr. Holger Fröhlich

UCB Biosciences GmbH

12:25
MECHANISTIC MODELLING OF COMPLEX DISEASES
Prof. Dr. Martin Hofmann-Apitius

Bonn-Aachen International Center for Information Technology (B-IT)
& Fraunhofer Institute for Algorithms and Scientific Computing SCAI

12:50
Lunch Break

13:50
USING BIOINFORMATICS APPROACHES TO UNRAVEL THE HYBRID GENOMIC BACKGROUND OF ASEQUAL NEMATODES AND THE ROLE OF HORIZONTALLY ACQUIRED GENES IN ADAPTATION TO STRESSFUL ENVIRONMENTS
Dr. Philipp Schiffer

Institute for Genetics, University of Cologne

14:15
MODEL REDUCTION OF BIOLOGICAL AND CHEMICAL NETWORKS USING METHODS FROM TROPICAL GEOMETRY
Prof. Dr. Andreas Weber

Institute of Computer Science II, Computer Graphics,
University of Bonn

14:40
MONITORING PLANT GROWTH IN 3D
Prof. Dr. Thomas Berlage

RWTH Aachen & Fraunhofer Institute for Applied Information
Technology FIT

15:05
Coffee Break

15:35
REVEALING THE GENETIC BASIS OF COMPLEX TRAITS
Prof. Dr. Andreas Beyer

Cellular networks and systems biology, University of Cologne

16:00
BIG DATA IN PSYCHIATRY
Prof. Dr. Alexander Markowetz

Institute of Computer Science III, University of Bonn

16:25
CONCLUSIONS AND CLOSING OF THE MINI-SYMPOSIUM
Prof. Dr. Martin Hofmann-Apitius

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