



GERMAN
CANCER RESEARCH CENTER
IN THE HELMHOLTZ ASSOCIATION

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Invitation

„First Byte“ Symposium

1st Anniversary of the Large Scale Data Facility
for Life Sciences at BioQuant

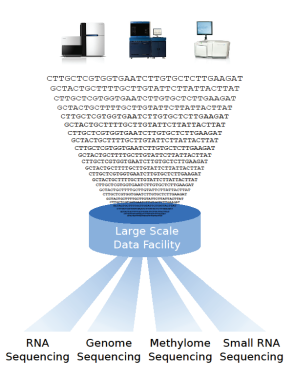


May 26, 2011
BioQuant Centre
Im Neuenheimer Feld 267
Heidelberg

BioQuant, the Center for “Quantitative Analysis of Molecular and Cellular Biosystems” at Heidelberg University was established in 2007 as an interdisciplinary University research center that is solely dedicated to research and training in systems biology.

In addition to advanced computational tools and methods for data analysis, image processing, and modeling, BioQuant’s central technology platform provides cutting edge technologies for systematic functional imaging with an emphasis on high-throughput and high-content microscopy, high-resolution microscopy and electron microscopy (conventional and cryoEM).

In order to manage and provide storage capacity for large data sets generated by high-throughput and high-content imaging as well as by the most recent solutions in Next-Generation sequencing a **LARGE SCALE DATA STORAGE FACILITY FOR THE LIFE SCIENCES (LSDF4LS)** has been established at the BioQuant center in 2010.



The Facility was funded by both the Federal Government and the State of Baden-Württemberg and is part of a state-wide solution for the storage of massive data sets generated at academic institutions in Baden-Württemberg.

The LSDF4LS at BioQuant already represents the largest data storage facility of its kind in Germany. Since 2010 1.2 Petabyte usable disk space are available for selected projects in the area of cancer genome research and high-throughput and high-content imaging approaches.

In 2012, the BioQuant center will have a data storage capacity of around 6 Petabyte exclusively available for the Life Science Research community on Heidelberg Campus. Long-term data storage will be provided by the Karlsruher Institute for Technology (KIT).

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Agenda

- 9.30 am **WELCOME AND INTRODUCTION**
Roland Eils, DKFZ & Heidelberg University
- 10 am **THE EUROPEAN GRID INFRASTRUCTURE:
SUPPORTING EUROPEAN RESEARCH COMMUNITIES**
Steven Newhouse, Director EGI.eu & EGI-InSPIRE
- 10.45 am **GIGA, TERA, PETA ... NEXT GENERATION
ELECTRON MICROSCOPY TECHNOLOGY**
Rasmus Schröder, Heidelberg University
- 11.15 am Coffee Break*
- 11.45 am **IBM CENTENNIAL - GETTING READY FOR A
SMARTER PLANET AND BIG DATA**
Dieter Münk, IBM
- 12.15 pm **LATEST STATE-OF-THE-ART RNAi SCREENING**
Holger Erfle, Heidelberg University
- 12.45 pm Lunch Break*
- 1.45 pm **DKFZ & IBM: A STRATEGIC ALLIANCE**
Manuela Müller-Gerndt, IBM
- 2.15 pm **DIGITAL EMBRYOS: OF FISH AND FLIES**
Jochen Wittbrodt, Heidelberg University
- 2.45 pm **THE EVOLUTION OF THE LSDF AT BIOQUANT**
Sven Eichelbaum, SVA
Marc Hemberger, Heidelberg University
- 3.30 pm Coffee Break*
- 4 pm **DATA INTENSIVE SERVICES FOR THE LSDF**
Jos van Wezel, KIT-SCC
- 4.30 pm **ONCOGENOMIC ANALYSES OF PEDIATRIC BRAIN
TUMORS AND THE ROLE OF WHOLE GENOME SEQUENCING**
Peter Lichter, DKFZ
- 5 pm Get Together*