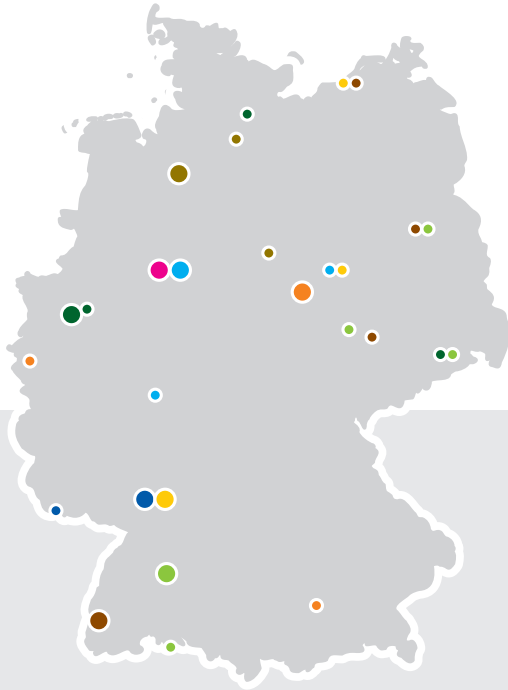## THE DISTRIBUTED NETWORK STRUCTURE

The **de.NBI network** was launched in March 2015 and includes **40 projects** run by **30 partners** and organized in **8 Service Centers** located all over Germany.

- de.NBI Administration Office (AO)

**THE EIGHT SERVICE CENTERS ARE:**

- Heidelberg Center for Human Bioinformatics (HD-HuB)
- Bielefeld-Gießen Resource Center for Microbial Bioinformatics (BiGi)
- Bioinformatics for Proteomics (BioInfra.Prot)
- Center for Integrative Bioinformatics (CIBI)
- RNA Bioinformatics Center (RBC)
- German Crop BioGreenformatics Network (GCBN)
- Center for Biological Data (BioData)
- de.NBI Systems Biology Service Center (de.NBI-SysBio)

## INTERNATIONAL COLLABORATION OF de.NBI

Since August 2016 Germany is full member of the inter-governmental organisation ELIXIR. The German ELIXIR Node will be run by **de.NBI**.

Stay updated about recent developments and events of the network. To get your copy of the **de.NBI Quarterly Newsletter** visit: www.denbi.de/news

@denbiOffice #denbi

## CONTACT

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# de.NBI
GERMAN NETWORK FOR BIOINFORMATICS INFRASTRUCTURE

# BIG DATA EXPLOITATION IN LIFE SCIENCES

# THE MISSION OF de.NBI

**de.NBI,** the **'German Network for Bioinformatics Infra-structure'** provides:

- comprehensive first-class bioinformatics services to users in basic and applied life sciences research from academia, industry and medicine
- bioinformatics training to users in Germany and Europe through a wide range of workshops and courses
- cooperation of the German bioinformatics community with international network structures

**SERVICE**

**TRAINING**

**INTERNATIONAL COOPERATION**

# de.NBI SERVICE

**de.NBI** develops and maintains almost **100 bioinformatic services** for the human, plant and microbial research fields.

The **de.NBI Cloud** offers compute resources to the research community.

Detailed **service overview** is available at:
www.denbi.de/services

# de.NBI TRAINING

**de.NBI** provides **training courses** to support users with different expertise levels in bioinformatics and from various research fields in life sciences.

Training activities include one- to two-day training courses, webinars, online training, and themed one-week summer schools.

Detailed **training overview** is available at:
www.denbi.de/training
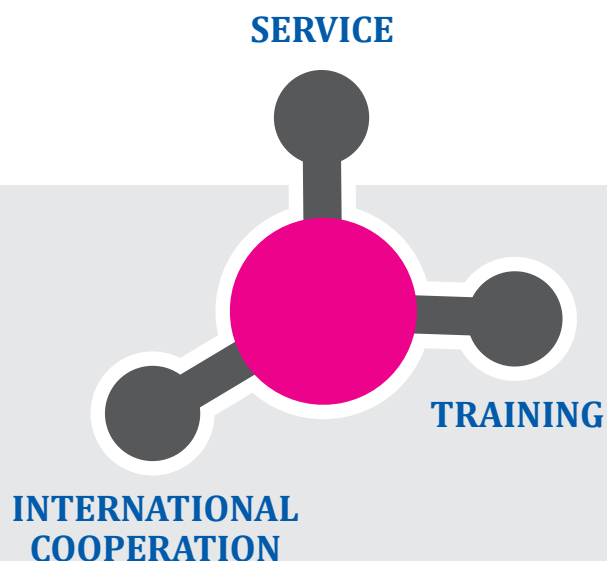
**HD-HuB**
*Bioinformatics Infrastructures in Biomedical Research*

- Human genetics and genomics
- Metagenomics
- Systematic phenotyping of human cells
- Epigenetics

**BiGi**
*Bioinformatics for Microbial Research for Biotechnology and Medicine*

- High performance computing services
- Repository of reusable workflows
- Comparative genomics and meta-omics
- Post-genomics data integration

**BioInfra.Prot**
*Bioinformatics for Proteomics*

- Comprehensive proteomics workflow
- Data publication, analysis & tool services
- Quality standards for targeted proteomics
- Lipidomics

**CIBI**
*Tools for omics data and imaging*

- Open-source libraries (OpenMS, SeqAn, FIJI)
- Tools for NGS, mass spec, and imaging
- Workflow engine (KNIME) for automation
- (Multi-)omics data analysis workflows

**RBC**
*RNA Bioinformatics*

- Analysis of RNA-related data
- Life science data analysis with Galaxy
- Meta-transcriptomics
- Epigenetic research

**GCBN**
*Crops and BioGreenFormatics*

- Plant genetic resources and traits
- Bridging genotypes to phenotypes
- Plant gene and genome annotation
- Enabling technologies to improve crops

**BioData**
*Reference Databases, Services and Tools*

- Ribosomal RNAs (SILVA)
- Environmental data (PANGAEA)
- Taxon-associated metadata (BacDive)
- Enzymes & Ligands (BRENDA/EnzymeStructures)

**de.NBI-SysBio**
*Standards-based Systems Biology*

- Data and model management tools
- SABIO-RK reaction kinetics data
- Methods and tools for modeling in Systems Biology
- Standards & tools for model search and management

Photo: Sergey Nivens – Fotolia.com