

Deutsches Netzwerk für Bioinformatik-Infrastruktur German Network for Bioinformatics Infrastructure

CAU - de.NBI Administration Office, c/o Center for Biotechnology, Bielefeld University, D-33594 Bielefeld, Germany

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The de.NBI Initiative

The German Network for Bioinformatics Infrastructure (de.NBI) is an academic funding initiative of the German Ministry of Education and Research (BMBF) initiated in March 2015.

The consortium consists of 42 project partners organized in eight service centers and one central coordination unit forming a distributed infrastructure within Germany.

de.NBI Services

The de.NBI Consortium in 2019

de.NBI Administration Office (AO) - Universität Bielefeld

de.NBI Service Centers

HD-HuB - Heidelberg Center for Human Bioinformatics
- DKFZ Heidelberg
- EMBL Heidelberg
- Universität Heidelberg
- Universität des Saarlandes
- Charité Berlin
Coordinator: P. Bork, Heidelberg

BIGI - Bielefeld-Gießen Resource Center for Microbial Bioinformatics
- Universität Bielefeld
- Universität Gießen
- Universität Magdeburg
Coordinator: A. Gossmann, Gießen

BioInfra.ProT - Bioinformatics for Proteomics
- Medizinisches Proteom-Center
- Universität Bochum
- Leibniz-Institut für Analytische Wissenschaften - ISAS - e.V. Dortmund
- Forschungszentrum Borstel
- Max-Planck-Institut für Molekulare Zellbiologie und Genetik, Dresden
Coordinator: M. Eisenacher, Bochum

CIBI - Center for Integrative Bioinformatics
- Freie Universität Berlin
- Universität Konstanz
- Universität Tübingen
- Max-Planck-Institut für Molekulare Zellbiologie und Genetik, Dresden
- Leibniz-Institut für Pflanzenbiochemie Halle
Coordinator: O. Köhlbächer, Tübingen

RBC - RNA Bioinformatics Center
- Universität Freiburg
- Universität Leipzig
- Max-Deeblick-Centrum für Molekulare Medizin Berlin
- Universität Rostock
- Leibniz-Institut für Alternforschung - Fritz-Lipman-Institut e.V., Jena
Coordinator: R. Backofen, Freiburg

GCBN - German Crop BioGreenformatics
- Leibniz-Institut für Pflanzengenetik
- Leibniz-Institut für Kulturpflanzenforschung Gatersleben
- Helmholtz Zentrum München
- Forschungszentrum Jülich
Coordinator: U. Scholz, Gatersleben

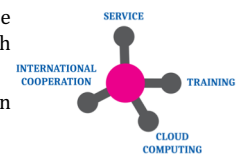
BioData - Center for Biological Data
- Jacobs University Bremen - SILVA
- Universität Bremen - PANGAEA
- Leibniz-Institut DZME Braunschweig - BioDiv
- TU Braunschweig - BRENDA
- Universität Hamburg - EnzymeStructures
Coordinator: F. O. Glöckner, Bremen

de.NBI-SysBio - de.NBI Systems Biology Service Center
- HTS Heidelberg Institut für Theoretische Studien
- Universität Heidelberg
- Max-Planck-Institut für Dynamik Komplexer Technischer Systeme, Magdeburg
Coordinator: W. Müller, Heidelberg

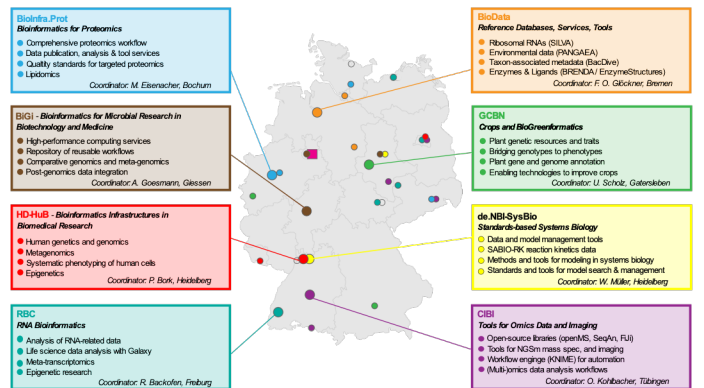
Associated Partners - without de.NBI funding
- Universität Kiel
- Universität Jena
- DKFZ Heidelberg
- ZB MED Köln
Associated Training Partners
- Universitätsklinikum Hamburg

de.NBI Mission

- de.NBI provides free of charge **services** to users in life science research.
- Bioinformatics **training** is offered through a wide range of courses.
- de.NBI supports the **collaboration** of the German bioinformatics community with international bioinformatics networks.
- The **de.NBI Cloud** offers an excellent solution for research data storage and analyses.



de.NBI Service Centers and their bioinformatics services

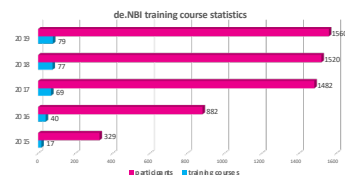


de.NBI offers comprehensive bioinformatics services, workflows, tools, online databases, and software libraries. Services are aimed at users in experimental research as well as software developers.

de.NBI Training & Education

de.NBI Service Centers offer a wide range of classroom training courses and e-learning materials available on the de.NBI website. International summer schools are held annually and focus on different research topics offered to scientists in multiple disciplines in life science research.

Since 2015, the de.NBI has offered over **280 courses** and trained over **5,700 researchers**.



Examples on de.NBI training and education events

Training event	Organizer
Galaxy workshop on HTS data analysis	RBC
OpenMS user meeting	CIBI
de.NBI Summer School	All service centers
Differential analysis of proteomic data using R	BioInfra.ProT
Workshop on next generation sequencing data in cancer research	HD-HuB
Introduction to BRENDA enzyme database	BioData
Polyomics data integration and analysis	BIGI
The path from raw sequences to biological conclusions	GCBN
Kinetics on the move: practical workshop on data for computational modeling	de.NBI-SysBio

de.NBI International Collaboration

Germany, represented by the de.NBI network, is a member of the European Life Science Infrastructure for Biological Information **ELIXIR**.

ELIXIR Germany is one of the largest ELIXIR Nodes contributing over 100 bioinformatics tools and offering a big share of training courses to scientists in Europe.

The de.NBI databases **SILVA** and **BRENDA** are selected amongst **ELIXIR Core Data Resources** reflecting their importance and their value to the scientific community.



The de.NBI Cloud

The de.NBI Cloud is one of the **largest** academic clouds in Europe and offers **free of charge** services to all academic users.

- Federated cloud (since 2016) - 6 locations
- Central cloud portal and governance provided by de.NBI CAU in Bielefeld
- Authentication via ELIXIR AAI
- Infrastructure as a Service - IaaS
- Platform as a Service - PaaS
- Software as a Service - SaaS

