Bioinformatics Services for Microbial Post- and Metagenome Research provided by the de.NBI service center BiGi

BiGi
Microbial Bioinformatics
Center for Biotechnology, Bielefeld University, Bielefeld, Germany

de.NBI services and progress report

BiGi-UBI operates, maintains and supports a wide range of software tools and applications providing solutions for microbial analytics. Service requests range from project requests to comprehensive consultancy requests.

Project lead: J. Stoye; de.NBI employees: N. Kleinbötting (research scientist, BiGi services), S. J. Šimuncig (research scientist, BiGi training), A. Walender (research scientist, BiGi cloud), C. Henke (research scientist, BiGi cloud); further involved scientists: A. Sczyrba, S. Albaum, J. Krüger, B. Weisshaar; administration and support team: B. Fischer, T. Kasch, A. Neumann, R. Nolte, R. Orth, V. Töglie (group as of Feb 2020)

de.NBI training and education

• Cloud computing workshops, i.a. at the GCB 2016 Berlin and 2018 Vienna (Sep 12, 2016, 45 part.; March 8th, 2018, 8 part., Sep 25, 2018, 20 part.; Sep 15, 2019, 20 part.)
• Polymics data integration and analyses (Oct 13, 2016, 14 part.; Sep 7, 2017, 6 part.; Nov 13, 2018, 8 part.)
• de.NBI summer schools (Microbial Bioinformatics: Sep 20-25, 2015, Giessen; Big Data to Big Insights: Sep 26-30, 2016, Castle Dagstuhl; On cloud computing: Jun 26-30, 2017, Giessen)

de.NBI cloud activities

As part of the de.NBI cloud, BiGi-UBI is one of the centers providing cloud infrastructure to the life science community. In the present configuration, together with the next extension, the cloud comprises 3,680 +/−2,500 cores, highly interconnected (HA-Setup, 10 GbE), and 10 +/−6 PB gross storage capacity (Ceph Mimic, 40 GbE). Bielefeld, particularly, provides high memory servers (up to 3TB RAM) as well as GPU servers (10 +20 +/−30 Nvidia Tesla P100 / V100 / T4).

Bielefeld OpenStack cloud utilizes high interconnectivity maximizing the network bandwidth.

Start and manage your resources.

http://www.denbi.de