# Bioinformatics & Omics Data Science Platform at a glance
# All you need to know about resources, services & collaboration opportunities provided

**Bioinformatics & Omics Data Science Platform**

## Bioinformatics infrastructure

### Platform provides computational and software resources for computational and wetlab biologists

**What:** shiny server for interactive R applications
**For whom:** drylab (developing the app) + Wetlab (using the app)
**Links:** http://shiny.mdc-berlin.de
**How to get help:** https://itsupport.mdc-berlin.net/

**What:** In-house mirror of UCSC genome Browser
**For whom:** drylab + Wetlab
**Links:** http://genome.mdc-berlin.de
**How to get help:** https://itsupport.mdc-berlin.net/

**What:** In-house instance of instance of Galaxy Server
**For whom:** all MDC users
**Links:** https://galaxy.mdc-berlin.net
**How to get help:** https://itsupport.mdc-berlin.net/

**What:** Reproducible scientific software for linux desktops & HPC
**For whom:** People who need to install scientific software
**Links:** http://guix.mdc-berlin.de/documentation
**How to get help:** https://itsupport.mdc-berlin.net/

**40+ Linux WS**
**What:** App servers, Workstations, all running a Linux Distribution (Ubuntu or RedHat based )
**For whom:** BIMSB users
**How to get help:** https://itsupport.mdc-berlin.net/

**compute servers**
**What:** Dedicated computational servers (assistance on deciding what to by → support until the server is retired)
**For whom:** Groups who needed powerful dedicated machines
**How to get help:** bimsb_itsupport@mdc-berlin.de

**Virtual Machines**
**What:** High resource Virtual Machines for running scientific tools, webtools (with public access)
**For whom:** All BIMSB Users
**How to get help:** bimsb_itsupport@mdc-berlin.de
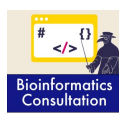
**Training System**
**What:** up to 25 training laptops preinstalled with the requested tools
**For whom:** all training participants
**How to get help:** bimsb_itsupport@mdc-berlin.de

**What:** data sharing over https
**For whom:** All BIMSB/MDC Users
**Links:** https://bimsbstatic.mdc-berlin.net / .de
**How to get help:** bimsb_itsupport@mdc-berlin.de

## Consultation, Mentorship & Training

### Platform provides know-how for research and software projects in different formats

**Bioinformatics Consultation**
**What:** Consultation related to bioinformatics and data analysis related questions
**For whom:** Researchers who are looking for advice on how to proceed on data analysis
**How to get access:** http://iris.mdc-berlin.de

**Bioinformatics Mentorship**
**What:** one-2-one mentorship to develop computational skills
**For whom:** People who have some computational skills and want to improve them with a mentor
**How to get access:** http://iris.mdc-berlin.de

**Learning resources maintained by the platform:**
✔ Linux+HPC tutorial:
http://bioinformatics.mdc-berlin.de/intro2UnixandSGE/
✔ Computational Genomics with R book:
http://compgenomr.github.io/book
✔ biostars forum for MDC (Q&A forum):
http://biostar.mdc-berlin.net/
✔ PiGx pipeline manuals (Genomics pipelines):
http://bioinformatics.mdc-berlin.de/pigx_docs/

## Research Collaboration

### We provide multiple avenues for research collaboration

**Large-Scale collaboration**
**What:** These are projects have large-scale data and/or complex analysis requirements. Needs significant time investment.

**How to get access:** consultation request
http://iris.mdc-berlin.de

**Small-Scale collaboration**
**What:** These are small-scale projects where someone in the lab has specialized expertise, set of existing scripts or established pipelines such as PiGx
https://bioinformatics.mdc-berlin.de/pigx .

**How to get access:** consultation or small-scale project request http://iris.mdc-berlin.de

http://bioinformatics.mdc-berlin.de

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