

# Workshop

## Research Data Management



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**Target group:** Individual researchers and working groups (professors, postdocs, PhD students) in the biological and environmental sciences concerned with organizing and storing research data.

**Expected prerequisites:** fundamentals of good scientific practice; handling of data in the usual desktop environment; laptop and internet access required for hands-on activities

**Duration:** 2 h

### Expected results

For participants: improved knowledge of the basics of data management along the data lifecycle; Knowledge of GFBio tools and services, their advantages, and limitations; National and international trends in data guidelines; Certificate of Participation (if desired).

For GFBio: feedback; informal discussion on the participants' routines in dealing with their own data and their willingness to establish good data management practice, interest in advanced workshops.

### Background information

With increasing complexity of research questions in the biological sciences, sustainable research data management is becoming more important. In some areas of biology, such as ecology, very heterogeneous data are collected (e.g. species occurrence data, genetic data and environmental data) that are related to one another. In addition, data volumes steadily increase and frequent cooperation between different working groups occurs. This requires a structured organization of the research data and routines in the handling of shared data. At the same time, scientific journals and funding agencies are increasingly demanding the publication of data on which scientific work is based. Each individual researcher will therefore have to deal with long-term storage, readability, and usability of data by others.

GFBio provides a central access point to existing infrastructures for research data, and supports scientists in all steps of research data management (quality assurance, analysis, visualization, and data exchange, archiving and publication, retrievability and re-use).

This workshop addresses essential questions everyone should ask when compiling a data management plan prior to a grant application. It also provides information about useful data management tools and familiarizes the participants with the GFBio services available to researchers. Participants will be able to try out some of the GFBio tools, such as the Search function, the VAT (Visualization and Analysis Tool) or the Data Center Recommendation Tool for choosing an appropriate data repository.