

BGBM – Botanic Garden and Botanical Museum Berlin, Freie Universität Berlin

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About the Institution

The [Botanischer Garten und Botanisches Museum Berlin](#) (BGBM, Botanic Garden and Botanical Museum Berlin) of the Freie Universität Berlin is a centre of biodiversity research in Europe, housing extensive scientific collections of herbarium specimens (about 3.5 million), one of the world's largest living plants collections, as well as the most complete botanical library in Germany.

About the Data Center

The BGBM has a strong interest in collection and observational data as well as taxon-level data management covering the entire taxonomic workflow, in particular in the field of Botany. The taxonomic expertise and interest is that of the BGBM (see <http://www.bgbm.org/en/research>). Taxonomic research, through which plants are identified, described, named and classified, is a central element of our daily work.

Data archived:

- Botanical specimen data; Referenced multimedia objects
- Botanical observational data
- Botanical systematics and monographic works
- Experimental raw data (data sets and/or data packages) only if well documented and in formats and structures appropriate for long-term archiving



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Data Center Profile

Name	BGBM – Botanic Garden and Botanical Museum Berlin, Freie Universität Berlin
URL	https://www.bgbm.org/en
Description	<p>The BGBM's "Research and Development Group Biodiversity Informatics and Scientific Information Systems" conducts collaborative research on national and international levels since the early 1990s. Today it comprises a strong interdisciplinary group of 25 researchers from computer science, biology, bioinformatics, and engineering. Research areas include information modeling, metadata standardization, networking of primary biodiversity data, taxonomic computing, workflow development, data rescue and archiving, and biological research collection management.</p> <p>Important developments of the "Research and Development Group Biodiversity Informatics and Scientific Information Systems" include the EDIT Platform for Cybertaxonomy, the Biological Collection Access Service (BioCASE), and the DNA Bank Network. BDI is also responsible for all research information systems developed and hosted by the BGBM (Euro+Med Plant Base, Flora of Cyprus, Cichorieae and Campanula Portal, Caryophyllales Synthesis etc.). The BGBM has a close cooperation with MfN and SNSB to support the IT management of the Biowikifarm.</p> <p>Scientific data curation services (incl. taxonomic services)</p> <p>The taxonomic expertise and interest is that of the BGBM (see http://www.bgbm.org/en/research). Research at the BGBM is to a large extent based on our scientific plant collections. Taxonomic research, through which plants are identified, described, named and classified, is a central element of our daily work. Furthermore, we study the phylogenesis of plants and the mechanisms of their evolution. We focus our research on the following model groups of flowering plants and microorganisms: <i>Asterales</i>, <i>Caryophyllales</i> and <i>Diatoms</i>.</p> <p>Besides this, our research activities are focused on particular regions of the world, where we carry out inventories and investigations of plant diversity together with our local partners. The results of our activities include contributions to Floras, identification guides (including genetic 'Barcodes') and concepts for the conservation and sustainable use of plant diversity. Our focal regions are: Europe and Mediterranean area including the <i>Caucasus</i> and <i>Cuba</i> and the <i>Caribbean region</i>.</p> <p>The BGBM has a special interest in data related to its taxonomic and regional research focal research areas.</p> <p>The BGBM hosts the coordination Office of GBIF Germany (GBIF-D) serving as contact for the research community as well as for the media and the public. The BGBM is also responsible for the GBIF-D Botanical Node in close collaboration with several German botanical institutions and five other partner institutions as part of the German contribution to GBIF International. It represents all flowering plants, ferns, and mosses and also includes algae and protists, while lichens, fungi and myxomycetes are covered by the German Mycology node located at the Botanische Staatssammlung München, SNSB.</p>
Data domains (scope)	The BGBM has a strong interest in collection and observational data as well as taxon-level data management covering the entire taxonomic workflow, in particular in the field of Botany.

Target group				
Service Description	Data archiving for research projects is focusing on:			
	Type 1a	Botanical specimen data; (Physical) DNA Storage (under discussion at BGBM); Referenced multimedia objects		
	Type 1b	Botanical observational data; Referenced multimedia objects		
	Type 2	Botanical systematics and monographic works		
	Type 4	RAW data (data sets and/or data packages) only if well documented and in formats and structures appropriate for long-term archiving, without further data management required		
	<p>A preference will be given on data which fall under the geographic and taxonomic research foci of the BGBM (BGBM: Research). The data archiving and publication includes management processes with JACQ , reBIND -workflow and the EDIT Platform for Cybertaxonomy as well as the data quality service platform and transformation and import services provided by BGBM.</p>			
	IT services			
	Based on the international herbarium data management system JACQ (25 herbaria), the EDIT Platform for Cybertaxonomy , as well as the GFBio Terminology Services.			
	<u>Data submission and accession</u>			
	<ul style="list-style-type: none">• JACQ import form• EDIT Platform import library and interfaces• Terminology upload services			
	<u>Data integration and management</u>			
	<ul style="list-style-type: none">• EDIT platform database instances and editing software tools, EDIT advanced data integrity checker• JACQ data entry and management forms• Terminology management tools (e.g. semantic media wiki)			
	<u>Data backup and archiving</u>			
	<ul style="list-style-type: none">• Backup and archiving facilities of the BGBM and the Freie Universität Berlin			
	<u>Data publication</u>			
<ul style="list-style-type: none">• GBIF Data publisher• Portal, service, and workflow interfaces of the EDIT Platform for Cybertaxonomy• BioCASE technical interfacing and helpdesk• Image Server, GPI/JSTOR Global Plants helpdesk				
User services				
EDIT Platform Workshops				
BioCASE/OpenUp Training				
Service Levels	Data Set x	Data Package x	Data management x	Research Objects x
Data Formats				
Data Submission Formats	Data	Preferably via BGBM collection data form for <i>Botanical collections</i> , <i>DNA sample collections</i> and/or <i>Tissue collections</i> which can be found in the GFBio collection of recommended data submission templates and/or standardized formats of any kind (e.g. ABCD or DwC-A files); Spreadsheets (CSV, excel-files, image files); Export files from external EDIT platform installations		
	Metadata	EML, ABCD, DarwinCore, DublinCore, SDD		
Data Accessibility	Public access points	GFBio , BioCASE Data Access Services at the BGBM , Institutional landing pages of citable stable URIs, BiNHum , BioCASE , GBIF , Europeana and others		
	Standardised exchange formats	XML-files in ABCD, DarwinCore, EML, SDD standard; Web services of the EDIT Platform for Cybertaxonomy		
	Data formats	TXT, CSV, XML		
	Long-term availability	Unlimited		
Data Publication Services	Data Citation	Yes (DOI and citation for each individual data set)		
	DOI	<i>via GBIF publication</i>		
		<i>via ZB MED/DataCite publication</i>		
Archiving (RAW-data ingest, data, media)				
Licenses / Terms of Use	Metadata/ Data	Creative Commons Zero (CC0) 1.0 (for annotations), Creative Commons Attribution Share-Alike (CC-BY-SA) 3.0 (for the herbarium scans)		
Documentation				
Computing center, external service provider				
name of the associated computing center(s), (commercial) service provider(s) and services provided				

Backup	<p>The data and files are copied and archived on the following schedule:</p> <ol style="list-style-type: none"> 1. primary storage: on change and hourly incremental backups 2. secondary storage: daily 3. long-term archiving: daily <p>The primary storage for data is the curated storage level, consisting of relational databases and files. Copies, database dumps and backups are stored on secondary storage, which is hard disk-based and on servers other than the primary storage. For long-term archiving, the data is archived on tape. These tapes are stored with two identical copies at two different locations within the BGBM Datacenter and FU Berlin Computing Center ZEDAT.</p>
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Your contact persons at BGBM

Data curator

- Katja Luther

Technical contact

- Dominik Röpert

NFDI contact persons

- Anton Güntsch, David Fichtmüller



Do you have questions, feedback or need help?

[Contact our Helpdesk](#) for direct support.

