

e!DAL-PGP - Plant Genomics and Phenomics Research Data Repository

[[About the Institution](#)] [[About the Data Center](#)] [[Data Center Profile](#)] [[Your contact persons at e!DAL-PGP](#)]

About the Institution

The [Leibniz Institute of Plant Genetics and Crop Plant Research \(IPK\) Gatersleben](#) and the [German Plant Phenotyping Network \(DPPN\)](#) have jointly initiated the [Plant Genomics and Phenomics Research Data Repository \(e!DAL-PGP\)](#) as an infrastructure to publish plant research data. e!DAL-PGP provides access to cross-domain, plant-related research data that exceeds existing repositories due to their size or scope. e!DAL-PGP is registered as research data repository at [BioSharing.org](#), [re3data.org](#) and OpenAIRE as valid EU Horizon 2020 open data archive.



About the Data Center

e!DAL-PGP archives, curates and publishes cross-domain, plant-related research data that exceeds existing repositories due to their size or scope. This includes for example:

- image collections from plant phenotyping and microscopy
- unfinished genomes
- genotyping data
- visualizations of morphological plant models
- data from mass spectrometry
- software & documents



Contact e!DAL-PGP at
[NFDI4Biodiversity](#)

Data Center Profile

Name	e!DAL-PGP – Plant Genomics and Phenomics Research Data Repository
URL	https://edal-pgp.ipk-gatersleben.de/
Description	The Plant Genomics and Phenomics Research Data Repository (e!DAL-PGP) is an infrastructure to publish comprehensive plant research data. This covers in particular cross-domain datasets that are not being published in central repositories because of its volume or unsupported data scope.
Data domains (scope)	e!DAL-PGP provides access to cross-domain, plant-related research data that exceeds existing repositories due to their size or scope, such as image collections from plant phenotyping and microscopy, unfinished genomes, genotyping data, visualizations of morphological plant models, data from mass spectrometry as well as software and documents.
Target group	e!DAL-PGP is open to any project, institution, or individual scientist to use or to archive and publish data related to plant science.

Service Description	A desktop-application is available to upload large datasets to e!DAL-PGP . For smaller publications, also an intuitive web interface is provided. The user authentication features ELIXIR AAI, GOOGLE or ORCIDaccounts. Accepted data domains are among others image collections from plant phenotyping, unfinished genomes, genotyping data, visualizations of morphological plant models, data from mass spectrometry as well as software and documents.			
	Scientific data curation services (incl. taxonomic services)			
	e!DAL-PGP curates, archives and publishes plant-related research data. Thereby the datasets have no fixed file structure or defined records. Every published dataset is referenced with a DOI to guarantee a FAIR-aware and long-term stable citation. This means a DOI can refer to a single file but also to a comprehensive folder containing multiple files or subdirectories depending on the data domain. All datasets must be supplied by technical metadata and reviewed by two scientific and one administrative reviewer for (meta-)data quality and reusability. The user is guided by e-mails through the review process. Data submitters can define an optional embargo date. Every published dataset is referenced with a DOI to guarantee a FAIR-aware and long-term stable citation.			
	Data domains			
	Accepted data domains are among others image collections from plant phenotyping, unfinished genomes, genotyping data, visualizations of morphological plant models, data from mass spectrometry as well as software and documents.			
	IT services			
	The eDAL-PGP is built on the e!DAL (electronic Data Archive Library) framework, which is a lightweight Java-based software framework for maintaining, publishing and sharing research data.			
	Data submission and accession			
	Datasets can be submitted via a desktop application or web application . Beside functionalities for browsing, filtering and downloading of datasets, download and access statistics are provided for each DOI (https://doi.ipk-gatersleben.de/report).			
	Data backup and archiving			
Data backup and archiving facilities are hosted at the IPK with a Hierarchical Storage Management System (HSM) as data archival backend.				
Data publication				
Datasets are registered with a unique DOI at DataCite, to ensure long-term accessibility and citability of the data.				
For more information refer to:				
- Arend <i>et al.</i> The on-premise data sharing infrastructure e!DAL: Foster FAIR data for faster data acquisition. GigaScience. 2020. https://doi.org/10.1093/gigascience/giaa107 - Arend <i>et al.</i> - PGP repository: a plant phenomics and genomics data publication infrastructure. Database. 2016. https://doi.org/10.1093/database/baw033 - Arend <i>et al.</i> - e! DAL-a framework to store, share and publish research data. BMC Bioinformatics. 2014. https://doi.org/10.1186/1471-2105-15-214				
User services				
Helpdesk and user workshops.				
Service Levels	Data Set x	Data Package x	Data management x	Research Objects
Data Formats				
Data Submission Formats	Data	No limitations, almost any file format is accepted		
	Metadata	No limitations, all (standardized or other) formats are accepted		
Data Accessibility	Public access points	GFBio , PGP Repository Content Page of citable DOIs , e!DAL-PGP search page , DataCite Search		
	Standardised exchange formats	No limitations		
	Data formats	No limitations		
	Long-term availability	Minimum guaranteed time period of 10 years		
Data Publication Services	Data Citation	Yes (DOI and citation for each individual data set)		
	DOI	Via DataCite		
Archiving (RAW-data ingest, data, media)	All data and metadata are archived on a combination of harddisks and tape drive silos in a hierarchical storage management system located in three different buildings distributed over the campus of the IPK Gatersleben.			
Licenses / Terms of Use	All data published with e!DAL-PGP are a Creative Commons License . The following types are possible: CC-0, CC-BY, CC-BY-SA, CC-BY-ND, CC-BY-NC, CC-BY-NC-SA and CC-BY-NC-ND. For an open access publication CC-0, CC-BY and CC-BY-SA are recommended. More information is available in the e!DAL-PGP Data Deposition and License Agreement .			
Documentation	e!DAL-PGP webpage and short video tutorial .			
Computing center, external service provider	The central IT of the IPK Gatersleben as part of the research group Bioinformatics and Information Technology (BIT) performs the technical operation.			
name of the associated computing center (s), (commercial) service provider (s) and services provided				
Backup	Data backup and archiving facilities are hosted at the IPK Gatersleben with a Hierarchical Storage Management System (HSM) as data archival backend.			

Your contact persons at e!DAL-PGP

Data curator

- [Daniel Arend](#)

Technical contact

- [Daniel Arend](#)

NFDI contact persons

- [Daniel Arend](#), [Uwe Scholz](#), [Matthias Lange](#)



Contact e!DAL-PGP at
[NFDI4Biodiversity](#)



Do you have questions, feedback or need help?

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

