



## Tools (Version 2.0)

### Input Mask

Enter your DNA data and connect it to the respective specimen data

### Search/Edit

Browse the DNA dataset as well as the related specimen data

### Data cleaning

Find ambiguities, mistakes or missing data e.g. "missing DNA concentration"

### Molecular data

Add links to GenBank accessions

### Publications

Add references of publications in which DNA bank samples have been used

### Requests

Administer customer requests such as order and shipping data

### Inventory management

Get information about place and volumes of DNA deposit

### Configuration Tool

Administer users and define settings etc.

### Specimen Tool

Administer specimen and observation data that are not available via a GBIF compliant database

## Prospects (Version 3.0)

**Configuration Tool** for mapping of DNA and specimen data

**Report Tool** to generate statistics of DNA and specimen data as well as customer requests

**Sequence data Tool** to administer sequences, primers, chromatograms et cetera

## Download

[www.dnabank-network.org/Module.php](http://www.dnabank-network.org/Module.php)  
(available under Mozilla Public License Version 1.1)

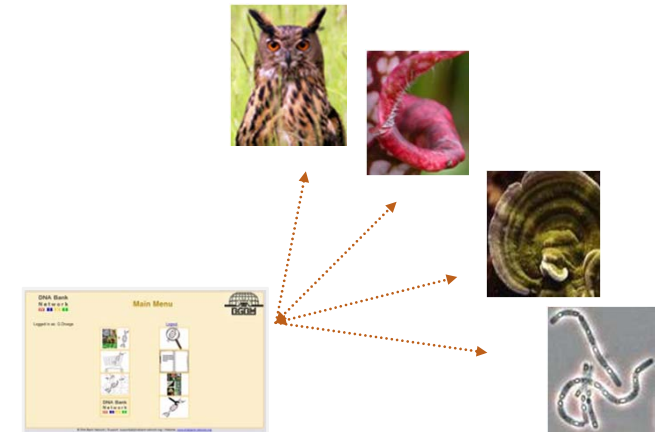
## Wiki/Manual

[wiki.bgbm.org/dnabankwiki](http://wiki.bgbm.org/dnabankwiki)

For further information about the DNA Module you are invited to visit our website or contact us at:

[www.dnabank-network.org/Module.php](http://www.dnabank-network.org/Module.php)  
[contact@dnabank-network.org](mailto:contact@dnabank-network.org)

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# DNA Bank Network

## - DNA Module -

Open Source Software for DNA Data  
Input and Management

# DNA Bank Network

A service to facilitate open access to DNA samples and voucher data worldwide

## Open Access

DNA banks are new types of biological research repositories. We developed an open access software for DNA data input and management: the DNA Module.

The Module connects DNA data to specimen information stored in various types of specimen and observation databases. Moreover it includes software for transferring DNA data to the internet (e.g. DNA Bank Network, GBIF ([www.gbif.org](http://www.gbif.org))). Further information about this transfer is available in two brochures (ABCDDNA and Webportal).

## Requirements

The DNA Module is based upon a MySQL database as well as PHP forms for DNA data input (Fig. 1) and management. The software is optimised for PHP 5 and MySQL 5.

The Module can be used as a local installation as well as a web application with an external database. To transfer DNA data to the webportal of the DNA Bank Network, the local DNA database (or a copy) has to be installed on a webserver.

## DNA Data Input

Specimen data e.g. for *Hispidella hispanica* (Fig. 1 shown in the upper part of the screenshot), collected in Spain, is imported directly from a specimen database (Herbarium Berolinense). In the lower part of the screenshot the completed form with related DNA information is displayed, e.g. quality parameters, extraction date and method, amplifications, links to further molecular analyses (to NCBI, EMBL etc.), tissue and preservation as well as locations of stock and aliquots. The sample can also be blocked, e.g. for scientific or legal property purposes.

Figure 1. Input mask

## Reference to Specimen Data

The Module is based upon GBIF tools and infrastructure and is able to interact with unlimited numbers of specimen databases. Any GBIF compliant specimen database worldwide can be linked to the DNA Module, if a BioCASE or DiGIR protocol (wrapper) is applied. Wrappers able to deal with different database management systems.

A **Wrapper URL** and the **schema version** is all you need to **connect** a specimen database to the **DNA Module**.

Specimen data is live imported from specimen databases via wrappers. The reference to the specimen data gets saved in the module database. Thus, a single DNA dataset is invariably connected to its appropriate specimen dataset, which is of great significance to enable revisions of species determination.

## Example

The wrapper URL for the specimen database of the Herbarium Berolinense (BGBM) is:

<http://www3.bgbm.org/biocase/pywrapper.cgi?dsa=Herbar>

If you open that URL further information about the applied schema version (here ABCD 2.06) is available.

To import specimen data enter the UnitID (respectively the specimen number) into the module's input mask and select the database in which the specimen data of the DNA sample is stored.

The UnitID is part of the triple identifier used by GBIF ([www.gbif.org](http://www.gbif.org)).