



Support the Network

Help us to accelerate the impact of molecular research!

It is possible to donate well determined and documented specimens, tissue material and DNA samples to the DNA Bank Network. Samples and data can then be used as a reference and will be accessible via the webportal.

Now is the time to deposit molecular types!

Our DNA banks are parts of major public natural history institutions. Specimens, tissues as well as DNA samples will be safeguarded for future research and generations.

Try out the DNA Module

If you don't have a DNA database and want to use the DNA Module, feel free to download the software from our website. The DNA Module is an open access product developed for DNA data input and management. More information is also available in the DNA Module brochure.

Order DNA

After registration it is possible to login and order DNA from the DNA banks of all network partners. All available DNA and specimen information is accessible without authentication.

Join the DNA Bank Network

The data architecture is flexible enough to connect further DNA, tissue and specimen databases via the webportal.

In February 2011 **the New York Botanical Garden has joined the Network** as our first international partner. Further DNA banks worldwide are welcome!

If you are interested to share your DNA and tissue data via the DNA Bank Network's webportal please don't hesitate to contact us.

The DNA Bank Network holds the **potential** to become an **international platform of biological DNA banks** to bridge the gap between natural history collections and molecular sequence databases.

You are invited to visit our webportal at:

www.dnabank-network.org

contact@dnabank-network.org

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www.dnabank-network.org

DNA Bank Network

- Webportal -

*Bridging the gap between
biological collections and
DNA sequence databases*



DNA Bank Network

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

The Webportal of the DNA Bank Network

The DNA Bank Network links five self-sufficient DNA banks situated in Germany and the USA and thus realises a unique concept. The DNA samples of all partners are available via a central webportal. Complete documentation of DNA samples is accessible online. By connecting DNA bank databases with complementary specimen data in natural history collections the whole range of biological diversity becomes available for scientists.

We provide access to more than **41.000 DNA samples** from **microorganisms, algae, fungi, animals and plants.**

Documentation of a DNA sample includes information about DNA extraction, DNA quality, and the related specimen as well as links to publications and published molecular data.

Search for DNA, specimens & more

The following features can be searched online:

- specimen or strain number
- species or family name *
- geographic origin or coordinates
- year of collection, collector
- type specimens
- digital specimens

- DNA sample numbers
- GenBank Accession numbers, BOLD process IDs*
- taxonomy id (NCBI) *
- tissue the DNA has been extracted from

*The search tool is designed to provide a suggestion list from the web index if you type in a search term. If the search term is not available no hits will be found (see Figure 1).

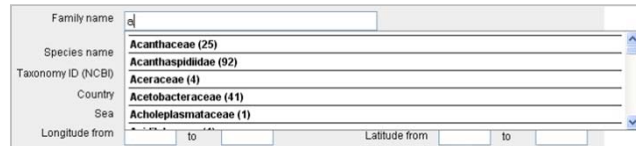


Figure 1. Suggestion list. If you type an ,a' for family name the list displays the first 50 records (and record counts) beginning with ,a'.

Hit list

1479 entries found for: Family = [Asteraceae]			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21			
Species	Country	DNA No.	Specimen No.
Aaronsohnia factorovskyi Warb. & Eig.	Israel	DB 5367	B 10 0326770
Aaronsohnia factorovskyi Warb. & Eig. var. factorovskyi	Israel	DB 5368	B 10 0326769
Aaronsohnia pubescens (Desf.) K.Bremer & Humphries	Tunisia	DB 5379	B 10 0326759

Figure 2. Hit list. It provides information about the DNA and specimen number, country of collection, and species name. To get all details about a DNA sample, click on the species name or the magnifying glass.

Data fact sheet

The webportal is a **spider** on the web: spinning threads to **catch** all relevant **specimen data** and **links** to further **molecular analyses** and **connecting** them to a **DNA sample**.

DNA data comprises information about DNA extraction and quality as well as place of storage. In addition, corresponding GenBank accession numbers and publication details are provided.

Specimen data contains information about collection locality, place of voucher deposit and digital images or other multimedia items.

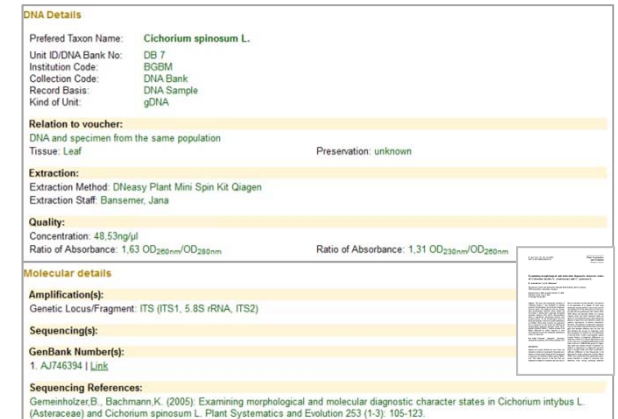


Figure 2. DNA data example of Cichorium spinosum L. The GenBank accession number is linking to NCBI.

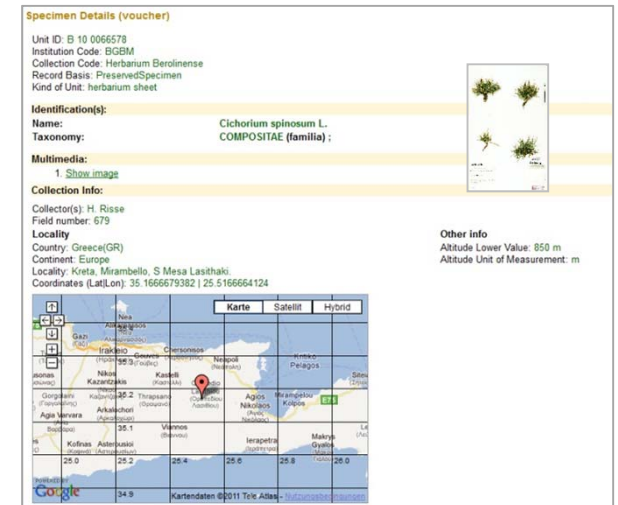


Figure 3. Specimen data example of Cichorium spinosum L. Digital images of the voucher will be provided if available.

Molecular data can thus be easily **taxonomically verified.**