

Linking specimen records with genetic data from Symbiota portals to GenBank

Step 1: Pull up the occurrence record you would like to add genetic data to and click on the Linked Resources tab. Then, click on the green cross to reveal the table for adding Genetic Resources.

University of Illinois Herbarium (ILL)
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Occurrence Data Determination History Images **Linked Resources** Admin

Duplicate Specimens +

No Linked Duplicate Records

Genetic Resources +

Add New Resource

Name:

Identifier:

Locus:

URL:

Notes:

No Genetic Resources linked to this record

Step 2: Complete the necessary fields as shown below. Notes can remain empty, but Name (= GenBank), Identifier (= GenBank accession number), Locus (= standardized name of gene), and URL (= link to the GenBank record) should be filled out. Add additional gene sequences by clicking on the pencil icons.

Some standardized names of commonly sequenced ribosomal genes:


ITS = 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

LSU = 28S large subunit ribosomal RNA gene, partial sequence

SSU = 18S small subunit ribosomal RNA gene, partial sequence

University of Michigan Herbarium (MICH)

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Occurrence Data
Determination History
Images
Linked Resources
Admin

Duplicate Specimens +

No Linked Duplicate Records

Genetic Resources +

Add New Resource


Name:

Identifier:

Locus:

URL:

Notes:


GenBank 

Identifier: DQ499466

Locus: ITS: 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

URL: <http://www.ncbi.nlm.nih.gov/nuccore/DQ499466>

Notes:


GenBank 

Identifier: NR_121207

Locus: RefSeq: ITS Region

URL: http://www.ncbi.nlm.nih.gov/nuccore/NR_121207

Notes:

GenBank 

Identifier: KC608614

Locus: RPB2 gene, partial cds

URL: <http://www.ncbi.nlm.nih.gov/nuccore/KC608614>

Notes:

Linking specimen records with genetic data from GenBank to Symbiota portals

To create links to your portal, NCBI needs two XML files, an identity file and a resource file.

Step 1. Create your Identity File using the example below from the MyCoPortal and email to: linkout@ncbi.nlm.nih.gov

[Note to MyCoPortal users: Please email help@mycoportal.org and we will provide you with the mycoportal Providerid number]

The identity file contains the information needed to list a provider in LinkOut. This file must be named **providerinfo.xml**; the file name is case sensitive. This file should be composed in a text editor, such as NotePad, not in a word processing program.

The NCBI LinkOut staff will then assign you a unique ProviderId and provide you with instructions for uploading your Resource File via ftp.

ProviderId Example File:

```
<?xml version="1.0"?>
<!DOCTYPE Provider PUBLIC "-//NLM//DTD LinkOut 1.0//EN"
"http://www.ncbi.nlm.nih.gov/projects/linkout/doc/LinkOut.dtd">
<Provider>
  <ProviderId>9439</ProviderId>
  <Name>Mycology Collections Portal</Name>
  <NameAbbr>MyCoPortal</NameAbbr>
  <SubjectType>herbarium/museum collections</SubjectType>
  <Url>http://www.mycoportal.org</Url>
  <Brief> On-line database of fungal specimen data</Brief>
</Provider>
```

Step 2. Create your Resource File using the example below. You can create a Resource File as xml, csv, or simple text. Instructions below are given for creating your Resource File as a csv file. For other methods, please refer to: http://www.ncbi.nlm.nih.gov/books/NBK3812/-ft.File_Preparation_Identity_File

Resource File example as a CSV file:

	A	B	C	D	E	F	G
1	ProviderId	Database	UID/Query	URL	IconURL	UrlName	SubjectType
2	####	nucleotide	AB080793 [accn]	http://mycoportal.org/portal/collections/individual/index.php?occid=2160623			herbarium/museum collections
3	####	nucleotide	AB080794 [accn]	http://mycoportal.org/portal/collections/individual/index.php?occid=2162722			herbarium/museum collections
4	####	nucleotide	AB080795 [accn]	http://mycoportal.org/portal/collections/individual/index.php?occid=2160683			herbarium/museum collections
5	####	nucleotide	AB193390 [accn]	http://mycoportal.org/portal/collections/individual/index.php?occid=1833176			herbarium/museum collections
6	####	nucleotide	AF042620 [accn]	http://mycoportal.org/portal/collections/individual/index.php?occid=1932644			herbarium/museum collections

ProviderId = your ProviderId assigned to you by NCBI LinkOut staff

Database = nucleotide

UID/Query = the GenBank accession number for the gene sequence you want to link your occurrence record with

URL = the url to that specific occurrence record in your portal (Note: each occurrence record has a unique occid)

Icon URL = [required, but leave blank]

UrlName = [required, but leave blank]

SubjectType = herbarium/museum collections

Step 3: Using the instructions provided by the NCBI LinkOut staff, ftp your ProviderId and Resource File to NCBI.

Step 4: Wait 48 hours and confirm GenBank sequences have been linked to your portal's occurrence records through NCBI's LinkOut feature.

Provider Statistics

LinkOut collects statistics on the number of clicks on each providers's links in the LinkOut display.

Statistics can be emailed to the LinkOut contact monthly. If you would like to receive statistics, please notify the LinkOut Team at linkout@ncbi.nlm.nih.gov

Statistics send via email include the yearly and monthly totals for clicks on a provider's links (a CSV file with the same information is provided as an attachment as well).

Statistics may change for the first 2 weeks that they are available. After 2 weeks, statistics will be stable.

A sample statistics report is shown below.

The following is the usage statistics for your LinkOut links:
 (Hits = number of times users clicked your links)

Please note that statistics for the most recent month may change in the next report.

Database: Gene

Total: 629

Month	Number of Hits
-----	-----
8/2005	126
7/2005	195
6/2005	142
5/2005	155
4/2005	11

Limiting a Search to Records with Links to a Specific Resource

loprovmycoportal[filter] to get all linked records for your portal

or, to search for linked records for a specific collection:

loprovmycoportal[filter] AND MICH