

# Q-Collect report WP 5.1 Info-portal

Inventory of existing tools for (a) identification, (b) classification, (c) websites and databases containing useful meta data of interest to Q-Collections and their end-users

In total 114 existing websites have been listed in the FES main database in a specific table called Q-Collect. The importance of each of the 114 is divided in 4 categories (A, B, C and D) where A is the most important and D the least.

Each website is checked on the existence of a direct search tool, identification tool and classification tool. In case such tool is present, the specific website link is given in the detailed report at the end of this document.

The detailed report shows the following information:

- Name: Name of the collection/institute of the website.
- Description: A short description of the collection/institute.
- Country of origin: Country of the collection/institute.
- Country coverage: Country of the data present in the website/database.
- Main website: Main website of the collection/institute.
- Search: A direct link to the search page, in case present.
- Identification: A direct link to the identification page, in case present.
- Classification: A direct link to the classification page, in case present.
- Importance level: Shows whether the website is reaching the expectancy of the Q-Collect project (A is highly important, B is important, C is less important, D is least important).

## Summary of the results:

- Level of Importance for all 114:
  - A: 29
  - B: 45
  - C: 29
  - D: 11
- Tools available:
  - Search tool: 100
  - Identification: 30
  - Classification: 19
- The table below shows the country of origin of the websites vs the country coverage of the data.

		< country coverage >													
		<i>World wide</i>	<i>Australia</i>	<i>Belgium</i>	<i>China</i>	<i>South East Asia</i>	<i>Estonia</i>	<i>Gabon</i>	<i>New Zealand</i>	<i>South Africa</i>	<i>Turkey</i>	<i>USA</i>	<i>Central Africa</i>	<i>EU</i>	<i>Total</i>
< Country origin >	<i>Australia</i>	4	21												<b>25</b>
	<i>Belgium</i>	5		2								6			<b>13</b>
	<i>China</i>				1	1									<b>2</b>
	<i>Denmark</i>	1													<b>1</b>
	<i>Estonia</i>	1					1								<b>2</b>
	<i>Europe (EU)</i>	12												5	<b>17</b>
	<i>France</i>	2													<b>2</b>
	<i>Gabon</i>							1							<b>1</b>
	<i>Geneva</i>	1													<b>1</b>
	<i>Italy</i>	3													<b>3</b>
	<i>Japan</i>	1													<b>1</b>
	<i>New Zealand</i>	1							1						<b>2</b>
	<i>Nigeria</i>	1													<b>1</b>
	<i>Papua New Guinea</i>	1													<b>1</b>
	<i>South Africa</i>									1					<b>1</b>
	<i>South Korea</i>	1													<b>1</b>
	<i>Sweden</i>	1													<b>1</b>
	<i>Switzerland</i>	1													<b>1</b>
	<i>The Netherlands</i>	6													<b>6</b>
	<i>Turkey</i>										1				<b>1</b>
	<i>UK</i>	7													<b>7</b>
	<i>USA</i>	15										5			<b>20</b>
	<i>World wide</i>	2													<b>2</b>
<i>Austria</i>	1													<b>1</b>	
<i>Germany</i>	1													<b>1</b>	
<b>Total</b>	<b>68</b>	<b>21</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>6</b>	<b>5</b>		

- Please find below the detailed report of the websites in the database:

Name: PlantNet New South Wales Flora

Description: This site presents a demonstration of one approach to an electronic Flora of New South Wales. Data are derived from the printed Flora of New South Wales series, published by the UNSW Press, augmented with data from electronic sources maintained by the National Herbarium of New South Wales.

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://plantnet.rbg Syd.nsw.gov.au/floraonline.htm>)

Search: Search page (<http://plantnet.rbg Syd.nsw.gov.au/search/simple.htm>)

Identification: Identification page ([http://plantnet.rbg Syd.nsw.gov.au/trad\\_keys.htm](http://plantnet.rbg Syd.nsw.gov.au/trad_keys.htm))

Classification: Classification page (<http://plantnet.rbg Syd.nsw.gov.au/classification.htm>)

Comments:

Importance level: A

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Name: AusGrass2 Grasses of Australia

Description: AusGrass2 builds on the foundation of AusGrass (Sharp & Simon 2002) from data maintained in DELTA format, one for species and infra-specific taxa and another for genera. New features in AusGrass2 are Australian grass literature references, references to Australian illustrations, basionyms and protologue information and derivation of species names (Clifford & Bostock 2007).

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://www.polebio.scsv.ups-tlse.fr/aphano/>)

Search: Search page (<http://www.polebio.scsv.ups-tlse.fr/aphano/>)

Identification: Identification page (<http://ausgrass2.myspecies.info/content/dichotomous-keys>)

Classification: Classification page (<http://ausgrass2.myspecies.info/content/classification>)

Comments:

Importance level: B

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Name: Australian Marine Algal Name Index

Description: A database of the taxonomy (both accepted names and their synonyms), nomenclature and distribution of the Australian marine macro-algae and some of the marine protists.

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://www.anbg.gov.au/amanisearch/servlet/amanisearch/>)

Search: Search page (<http://www.anbg.gov.au/amanisearch/servlet/amanisearch/template/Index.vm;jsessionid>)

Search page

Identification:

Classification:

Comments:

Importance level: B

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Name: Flora of Australia Online

Description: Data covers the six Australian States, the Northern Territory, the Australian Capital Territory and immediate offshore islands

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://www.environment.gov.au/biodiversity/abrs/online-resources/flora/main/index.html>)

Search: Search page (<http://www.anbg.gov.au/abrs/online-resources/flora/main-query-styles.html>)

Identification:

Classification:

Comments:

Importance level: B

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Name: Atlas of Living Australia

Description: The Atlas of Living Australia (Atlas) contains information on all the known species in Australia aggregated from a wide range of data providers: museums, herbaria, community groups, government departments, individuals and universities.

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://www.ala.org.au/>)

Search: Search page (<http://www.ala.org.au/>)

Identification:

Classification:

Comments:

Importance level: B

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Name: Western Australian Herbarium transferred from Western Australian Department of Agriculture to Western Australian Department of Conservation and Land Management.

Description: Western Australian Herbarium transferred from Western Australian Department of Agriculture to Western Australian Department of Conservation and Land Management.

Western Australian Herbarium transferred from Western Australian Department of

Country of origin: Australia  
Country coverage: Australia  
Main website: Main website (<http://florabase.dec.wa.gov.au>)  
Search: Search page (<http://florabase.dpaw.wa.gov.au/search/advanced>)  
Identification: Identification page (<http://florabase.dpaw.wa.gov.au/keys/>)  
Classification: Classification page (<http://florabase.dpaw.wa.gov.au/browse/family>)  
Comments:  
Importance level: B

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Name: Catalogue of Australian Mosses  
Description: Catalogue of Australian Mosses  
Country of origin: Australia  
Country coverage: Australia  
Main website: Main website (<http://www.rbg.vic.gov.au/dbpages/cat/index.php/mosscatalogue>)  
Search: Search page (<http://www.rbg.vic.gov.au/dbpages/cat/index.php/mosscatalogue/search>)  
Identification:  
Classification:  
Comments: Identification based on given pictures  
Importance level: C

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Name: Interactive Catalogue of Australian Fungi  
Description: The Interactive Catalogue of Australian Fungi (ICAF) provides the currently accepted name and synonyms of species of fungi in selected groups described or reported from Australia to 2004. ICAF covers macrofungi in the Basidiomycota and Myxomycota, including mushrooms, boletes, polypores, coral fungi, stinkhorns, puffballs, false truffles and slime moulds.  
Country of origin: Australia  
Country coverage: Australia  
Main website: Main website (<http://www.rbg.vic.gov.au/dbpages/cat/index.php/fungicatalogue>)  
Search: Search page (<http://www.rbg.vic.gov.au/dbpages/cat/index.php/fungicatalogue/search>)  
Identification:  
Classification:  
Comments: Identification based on given pictures and other information on the plants

Importance level: C

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Name: Australian National Algae Culture Collection (ANACC) - CSIRO

Description: This unique bank of Australian biodiversity contains marine and freshwater microalgal classes sourced from tropical Australia to Antarctica.

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://www.csiro.au/ANACC>)

Search: Search page (<http://www.marine.csiro.au/algaedb/default.htm>)

Identification:

Classification:

Comments: The Australian National Algae Culture Collection Strain Database is currently undergoing off line maintenance and this link will be re-established as soon as possible – April 2014.

Importance level: C

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Name: Australian plant common name database

Description: Australian National Botanic Gardens

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://www.cpbr.gov.au/common.names>)

Search: Search page (<http://www.cpbr.gov.au/common.names/>)

Identification:

Classification:

Comments:

Importance level: C

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Name: Queensland Herbarium

Description: Comprehensive specimen label data included in institutional HERBRECS database. Many macro fungi are now being added to the collection

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://www.qld.gov.au/environment/plants-animals/plants/herbarium/>)

Search:

Identification: Identification page (<http://www.business.qld.gov.au/industry/agriculture/animal-management/land-management-for-livestock-farms/land-management/health-pests->

Identification page (<http://www.business.qld.gov.au/industry/agriculture/animal->

Classification:

Comments:

Importance level: C

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Name: Australian Native Plants Society (Australia) - ANPSA

Description: The Australian Native Plants Society (Australia) - ANPSA - caters for people interested in Australia's native flora whether that interest is simple appreciation of the beauty and diversity of the flora or whether it extends to propagation, cultivation and conservation.

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://anpsa.org.au/index.html>)

Search:

Identification:

Classification:

Comments:

Importance level: C

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Name: A concise database of plant names & name changes for Australia

Description: The Australian Plant Name Index (APNI) is the source of What's Its Name? and provides nomenclatural information on plant names used in Australia.

Country of origin: Australia

Country coverage: Australia

Main website: Main website (<http://www.cpbr.gov.au/win/index.html>)

Search: Search page (<http://www.anbg.gov.au/cgi-bin/apni>)

Identification:

Classification:

Comments:

Importance level: D

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Name: Plant Pathology Herbarium

Description: The Plant Pathology Herbarium (HERB-DAR) has about 100,000 specimens of fungi, viruses, nematodes and bacteria of economic importance. About 2000 type specimens are held and these specimens are loaned on request. The collections were established in 1890 when Nathan Cobb was appointed as the first plant pathologist within the former Department of Agriculture.

Country of origin: Australia  
Country coverage: Australia  
Main website: Main website (<http://www.dpi.nsw.gov.au/aboutus/services/collections/herbarium>)  
Search:  
Identification: Identification page (<http://www.dpi.nsw.gov.au/aboutus/services/collections/scientific-illustrations/senior>)  
Classification:  
Comments:  
Importance level: D

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Name: Flora of Australia Online: Norfolk and Lord Howe Islands  
Description: Data covers Norfolk Island and Lord Howe Island and the associated islets of the Admiralty Group, Balls Pyramid, Blackburn (Rabbit) Island, Mutton Bird Island, Nepean Island and Philip Island  
Country of origin: Australia  
Country coverage: Australia / Norfolk and Lord Howe Islands  
Main website: Main website (<http://www.environment.gov.au/biodiversity/abrs/online-resources/flora/49/index.html>)  
Search: Search page (<http://www.anbg.gov.au/abrs/online-resources/flora/vol49-query-styles.html>)  
Identification:  
Classification:  
Comments:  
Importance level: C

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Name: Flora of Australia Online Oceanic Islands excluding Norfolk and Lord Howe Islands  
Description: Data covers Ashmore Reef, Cartier Island, Christmas Island, Cocos (Keeling) Islands, Coral Sea Islands Territory, Heard Island, Macquarie Island and McDonald Island  
Country of origin: Australia  
Country coverage: Australia / Oceanic Islands excluding Norfolk and Lord Howe Islands  
Main website: Main website (<http://www.environment.gov.au/biodiversity/abrs/online-resources/flora/50/index.html>)  
Search: Search page (<http://www.anbg.gov.au/abrs/online-resources/flora/vol50-query-styles.html>)  
Identification:  
Classification:  
Comments: Identification key to marine invasive species in Nordic waters



Importance level: C

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Name: Nature Map Mapping Western Australia's biodiversity

Description: Search for species by name or by area

Country of origin: Australia

Country coverage: Western Australia

Main website: Main website (<http://naturemap.dec.wa.gov.au/default.aspx>)

Search: Search page (<http://naturemap.dec.wa.gov.au/default.aspx>)

Identification:

Classification:

Comments:

Importance level: A

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Name: Department of Agriculture and Food (DAFWA)

Description: At Quarantine WA we work hard to prevent the introduction of exotic pests, diseases and weeds found in other states and territories of Australia. On these pages you will find information on importing and exporting potential quarantine risks within Australia.

Country of origin: Australia

Country coverage: Western Australia

Main website: Main website (<https://www.agric.wa.gov.au/biosecurity-quarantine/quarantine>)

Search:

Identification:

Classification:

Comments: Quarantine information WA (see also [http://archive.agric.wa.gov.au/PC\\_93008.html?Topic=PC\\_93008](http://archive.agric.wa.gov.au/PC_93008.html?Topic=PC_93008))

Importance level: A

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Name: WA Quarantine - organisms and potential carriers

Description: Under biosecurity legislation, any item that poses a biosecurity risk should be referred to quarantine inspectors for assessment. The item(s) are often referred to as 'quarantine risk items' or 'quarantine risk materials'. The legislation uses the terms 'organisms' and 'prescribed potential carriers'.

Country of origin: Australia

Country coverage: Western Australia

Main website: Main website (<https://www.agric.wa.gov.au/importing/quarantine-organisms-and-potential-carriers>)

Search:

Identification:

Classification:

Comments: A list describing the prescribed potential carriers that Quarantine WA requires to be declared and usually inspects

Importance level: A

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Name: Western Australian Museum WAMinals

Description: WAMinals provides photos, key diagnostic characteristics, and distribution data of species of interest in Western Australia based on records from the Western Australian Museum which includes undescribed species. This website is mostly focused on terrestrial and subterranean invertebrate animals.

Country of origin: Australia

Country coverage: Western Australia

Main website: Main website (<http://museum.wa.gov.au/catalogues/waminals/about-waminals>)

Search: Search page (<http://museum.wa.gov.au/catalogues/waminals/about-waminals>)

Identification:

Classification:

Comments:

Importance level: B

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Name: Western Australian Museum Digitised Types

Description: This resource lists some of our digitised type specimens from within our collections. All images are ultra high-resolution and the site contains some scanning and zooming tools so you can view features at a very high resolution.

Country of origin: Australia

Country coverage: Western Australia

Main website: Main website (<http://www.museum.wa.gov.au/catalogues/digitised-types>)

Search:

Identification:

Classification:

Comments:

Importance level: C

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Name: Weeds Australia

Description: List of weeds of national significance; Database of government and community references.

Country of origin: Australia  
Country coverage: world wide  
Main website: Main website (<http://www.weeds.org.au>)  
Search: Search page (<http://www.weeds.org.au/weedident.htm>)  
Identification: Identification page (<http://www.weeds.org.au/weedident.htm>)  
Classification:  
Comments:  
Importance level: B

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Name: Centre for Australian National Biodiversity research  
Description: Updated Dec 2012. Formerly "Herbarium Australiense." United with CBG (250 000 specimens) in 1993 under joint management. Specimens originally from CBG will continue to be cited as CBG. Administratively responsible for QRS (now part of CNS). Quarantine restrictions apply for herbarium material sent to Australia. Please contact the institution before sending any material.  
Country of origin: Australia  
Country coverage: world wide  
Main website: Main website (<http://www.anbg.gov.au/cpbr/>)  
Search: Search page (<http://www.anbg.gov.au/ibis/speciesLinks.html>)  
Identification:  
Classification:  
Comments:  
Importance level: B

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Name: Australia's Virtual Herbarium  
Description: AVH provides access to information obtained from the collections held in Australian herbaria. Australia's major state and territory herbaria house over six million plant, algae and fungi specimens. The collecting data stored with these specimens provides the most complete picture of the distribution of Australia's flora to date.  
Country of origin: Australia  
Country coverage: world wide  
Main website: Main website (<http://avh.chah.org.au/>)  
Search: Search page ([http://avh.ala.org.au/search/#tab\\_simpleSearch](http://avh.ala.org.au/search/#tab_simpleSearch))  
Identification:  
Classification: taxonomic classification visible in search results ()  
Comments:  
Importance level: B

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Name: National Herbarium of Victoria

Description: The Royal Botanic Gardens is one of the world's leading botanic gardens and a centre of excellence for horticulture, science and education. The Royal Botanic Gardens is dedicated to the conservation, display and enjoyment of plants and extends over two locations, Melbourne and Cranbourne, and incorporates the National Herbarium of Victoria and the Australian Research Centre for Urban Ecology, which is based at The University of Melbourne.

Country of origin: Australia

Country coverage: world wide

Main website: Main website (<http://www.rbg.vic.gov.au/>)

Search: Search page (<http://www.rbg.vic.gov.au/dbpages/rbgcensus/index.php>)

Identification:

Classification:

Comments:

Importance level: D

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Name: Plantcol

Description:

Country of origin: Belgium

Country coverage: Belgium

Main website: Main website (<http://www.plantcol.be/>)

Search: Search page (<http://www.plantcol.be/search-plants.php>)

Identification:

Classification:

Comments:

Importance level: B

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Name: Invasive species in Belgium

Description: The Belgian Forum on Invasive Species (BFIS) is an informal structure animated by the Belgian Biodiversity Platform where in scientists interested in biological invasions are involved. It encourages interdisciplinary cooperation among scientists and favours information exchange and dissemination as a support to develop measures dedicated to the prevention and the mitigation of the impacts of invasive species. The BFIS is responsible for preparing and updating the reference list of alien species invading terrestrial, freshwater and marine ecosystems in Belgium, with a focus on organisms causing a strong detrimental impact on native biodiversity.

Country of origin: Belgium

Country coverage: Belgium

Main website: Main website (<http://ias.biodiversity.be/>)

Search:

Identification:

Classification:

Comments:

Importance level: D

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Name: National Botanic Garden of Belgium

Description: The National Botanic Garden of Belgium holds living plant collections of more than 25.000 accessions from 17.000 taxa. This material is cultivated for research, conservation and education. The database LIVCOL is being developed using "Progress" software, a fourth generation relational database management system. The database holds a wide-range of information about accessions that are, or have been, cultivated at the Garden.

Country of origin: Belgium

Country coverage: world wide

Main website: Main website (<http://www.br.fgov.be>)

Search: Search page  
(<http://www.br.fgov.be/RESEARCH/COLLECTIONS/LIVING/LIVCOL/lp-qry01.html>)

Identification:

Classification:

Comments: URL for institutional specimen catalog:  
<http://www.br.fgov.be/RESEARCH/COLLECTIONS/HERBARIUM/advancedsearch.php>

Importance level: B

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Name: Botanic Garden Meise The BR Herbarium Catalogue

Description: This search page gives you access to the herbarium's catalogue. The herbarium contains approximately 3,000,000 specimens of which 2,500,000 are vascular plants. Not all of the collection has been catalogued and currently there are about 250,000 specimens in this catalogue. Nevertheless, the cataloguing of important type specimens has been prioritised so that the catalogue contains details of the most valuable material.

Country of origin: Belgium

Country coverage: world wide

Main website: Main website  
(<http://www.br.fgov.be/RESEARCH/COLLECTIONS/HERBARIUM/simplesearch.php>)

Search: Search page  
(<http://www.br.fgov.be/RESEARCH/COLLECTIONS/LIVING/LIVCOL/lp-qry01.html>)

Identification:

Classification:

Comments:

Importance level: C

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Name: National Botanic Garden of Belgium (BR)

Description: The mycological herbarium of the National Botanic Garden of Belgium houses a large collection of dried specimens. The amount of herbarium specimens is estimated to be more than 130 000 exsiccata. The herbarium is divided in 3 sections following the geographical area : the African Herbarium, the European Herbarium, and the General Herbarium.

Country of origin: Belgium

Country coverage: world wide

Main website: Main website  
(<http://www.br.fgov.be/RESEARCH/COLLECTIONS/HERBARIUMS/FUNGI/SURVEY/index.html>)

Search: Search page  
(<http://www.br.fgov.be/RESEARCH/COLLECTIONS/HERBARIUMS/FUNGI/SURVEY/index.html>)

Identification:

Classification:

Comments:

Importance level: C

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Name: Agricultural Culture Collection of China

Description: Agricultural Culture Collection of China (ACCC) established in 1979, base on the culture preservation lab of the institute of soils and fertilizers of Chinese Academy of Agriculture Science (CAAS). ACCC is one of the native nonprofit microbial resource centers of China whose mission focuses on the acquisition, identification, preservation, and distribution of agricultural microorganisms. ACCC also provides service for society, such as inspection for microbial inoculate products, consultancy, microbial resources information services, and training courses.

Country of origin: China

Country coverage: China

Main website: Main website (<http://www.accc.org.cn/htdocs/epages.asp?id=13>)

Search: Search page (<http://www.accc.org.cn/htdocs/epages.asp?id=20>)

Identification:

Classification:

Comments:

Importance level: D

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Name: Hong Kong herbarium

Description: The Hong Kong Herbarium is the most comprehensive herbarium in Hong Kong. There are approximately 43,000 plant specimens for examination. The collection includes vascular plants (ferns, gymnosperms and angiosperms) collected mainly in Hong Kong, Southern China and other countries of Southeast Asia.

Country of origin: China, Hong Kong

Country coverage: South east Asia

Main website: Main website (<http://herbarium.gov.hk/home.aspx>)

Search: Search page ([http://herbarium.gov.hk/Search\\_Form.aspx](http://herbarium.gov.hk/Search_Form.aspx))

Identification:

Classification:

Comments:

Importance level: B

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Name: Global Biodiversity Information Facility

Description: The Global Biodiversity Information Facility (GBIF) is an international open data infrastructure, funded by governments. It allows anyone, anywhere to access data about all types of life on Earth, shared across national boundaries via the Internet.

Country of origin: Denmark

Country coverage: world wide

Main website: Main website (<http://www.gbif.org/species/6>)

Search: Search page (<http://www.gbif.org/species>)

Identification:

Classification:

Comments:

Importance level: B

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Name: Museum of National History of Tartu University

Description: The aim of eBiodiversity portal is to provide a comprehensive resource on Estonian biodiversity by bringing together scientific and citizen science datasets. The portal provides public access to a wide variety of taxon occurrence types including specimens in scientific collections, observations, sounds, images, videos, references in literature and DNA-based observations.

Country of origin: Estonia

Country coverage: Estonia

Main website: Main website (<http://elurikkus.ut.ee/index.php?lang=eng>)

Search: Search page ([http://elurikkus.ut.ee/search\\_er.php?lang=eng](http://elurikkus.ut.ee/search_er.php?lang=eng))

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Identification:

Classification: Classification page ([http://elurikkus.ut.ee/elr\\_tree.php?lang=eng](http://elurikkus.ut.ee/elr_tree.php?lang=eng))

Comments:

Importance level: B

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Name: Unite

Description: UNITE provides unified way how you delimit, identify, communicate and work with DNA based Species Hypotheses (SH). All SHs are connected to the taxon name and classification.

Country of origin: Estonia

Country coverage: world wide

Main website: Main website (<http://unite.ut.ee/>)

Search: Search page (<http://unite.ut.ee/SearchPages.php>)

Identification: Identification page (<http://unite.ut.ee/analysis.php>)

Classification:

Comments: Other link for search option: [http://eol.org/data\\_search](http://eol.org/data_search)

Importance level: A

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Name: Delivering Alien Invasive Species Inventories for Europe

Description: Biological invasions by non-native or 'alien' species are one of the greatest threats to the ecological and economic well-being of the planet. Alien species can act as vectors for new diseases, alter ecosystem processes, change biodiversity, disrupt cultural landscapes, reduce the value of land and water for human activities and cause other socio-economic consequences for man.

Country of origin: EU

Country coverage: EU

Main website: Main website (<http://www.europe-aliens.org/>)

Search: Search page (<http://www.europe-aliens.org/speciesSearch.do>)

Identification:

Classification:

Comments:

Importance level: A

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Name: Q-bank Invasive Plants

Description: The Invasive Plants database focuses on vascular plants (excluding algae and mosses), with special attention to aquatic (non-marine) plants, because these plants cause acute and imminent problems in the ecozone comprising the Netherlands.



Country of origin: EU  
Country coverage: world wide  
Main website: Main website (<http://www.q-bank.eu/Plants/>)  
Search: Search page (<http://www.q-bank.eu/Plants/Biolomics.aspx?Table=Plants - Specimens>)  
Identification: Identification page (<http://www.q-bank.eu/plants/BioloMICSSequences.aspx?file=Plants&wsize=20>)  
Classification:  
Comments:  
Importance level: A

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Name: Q-bank Phytoplasmas  
Description: The Q-bank Phytoplasma database contains DNA sequences (Barcodes) of more than 100 strains that are of relevance to phytoplasma phytopathology (International Phytoplasmologist Working Group). The official micropropagated collection of phytoplasma strains is maintained mainly in periwinkle at the University of Bologna (Phytoplasma Collection).  
Country of origin: EU  
Country coverage: world wide  
Main website: Main website (<http://www.q-bank.eu/Phytoplasmas/>)  
Search: Search page (<http://www.q-bank.eu/Phytoplasmas/Biolomics.aspx?Table=Strains>)  
Identification:  
Classification:  
Comments:  
Importance level: A

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Name: Q-bank Nematodes  
Description: The Q-bank Nematodes database contains DNA barcodes (sequences), morphological, phenotypical and ecological data of quarantine nematodes and their close relatives. Currently, this database focuses on nematode species that are regulated in the European Union and are listed as A1/A2 organisms by the European Plant Protection Organization (EPPO).  
Country of origin: EU  
Country coverage: world wide  
Main website: Main website (<http://www.q-bank.eu/Nematodes/>)  
Search: Search page (<http://www.q-bank.eu/Nematodes/Biolomics.aspx?Table=Taxonomy>)  
Identification: Identification page (<http://www.q-bank.eu/Nematodes/BiolomicsID.aspx?IdentScenario=NematodID>)  
Classification:

Comments:

Importance level: A

---

Name: Q-Bank Bacteria

Description: The Q-bank Bacteria database contains cured DNA sequence data (Barcodes) of approximately three hundred bacterial strains that are of relevance to bacterial phytopathology (quarantine bacterial strains and their close relatives). Currently, this database focuses on the bacterial genera *Clavibacter*, *Xanthomonas*, *Ralstonia* and *Xylella* including species, subspecies and pathovars that are regulated in the European Union (EU Council Directive Species) and are listed as A1/A2 organisms by the European Plant Protection Organization (EPPO).

Country of origin: EU

Country coverage: world wide

Main website: Main website (<http://www.q-bank.eu/Bacteria/>)

Search: Search page (<http://www.q-bank.eu/Bacteria/Biolomics.aspx?Table=Q-bank%20strains&genlist=t>)

Identification: Identification page (<http://www.q-bank.eu/bacteria/BioLoMICSSequences.aspx?file=Bacteria&wsize=20>)

Classification: taxonomic classification visible in search results ()

Comments:

Importance level: A

---

Name: Q-bank Arthropod

Description: The Q-bank Arthropod database contains DNA sequences (barcodes) of 198 quarantine arthropod species for Europe and their closest relatives.

Country of origin: EU

Country coverage: world wide

Main website: Main website (<http://www.q-bank.eu/arthropods/>)

Search: Search page (<http://www.q-bank.eu/Arthropods/biolomics.aspx?Table=Arthropods%20species%20Qbol>)

Identification: Identification page (<http://www.q-bank.eu/Arthropods/BioLoMICSSequences.aspx?file=Insects&wsize=20>)

Classification: taxonomic classification visible in search results ()

Comments:

Importance level: A

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Name: European and Mediterranean Plant Protection Organization (EPPO)

Description: EPPO is an intergovernmental organization responsible for European cooperation in plant protection in the European and Mediterranean region. Under the International Plant Protection Convention (IPPC), EPPO is the regional plant protection organization

EPPO is an intergovernmental organization responsible for European cooperation in

Country of origin: EU  
Country coverage: world wide  
Main website: Main website ([http://www.eppo.int/INVASIVE\\_PLANTS/ias\\_plants.htm](http://www.eppo.int/INVASIVE_PLANTS/ias_plants.htm))  
Search: Search page (<http://www.eppo.int/DATABASES/pqr/pqr.htm>)  
Identification:  
Classification:  
Comments:  
Importance level: A

---

Name: Q-Bank Fungi  
Description: The Q-bank Fungi database contains DNA sequence data (barcodes), and for some species morphological, phenotypical and ecological data, of more than 725 species that are of relevance to mycological phytopathology.  
Country of origin: EU  
Country coverage: world wide  
Main website: Main website (<http://www.cbs.knaw.nl/aspergillus/>)  
Search: Search page (<http://www.cbs.knaw.nl/Aspergillus/Biolomics.aspx?Table=Aspergillus and Penicillium Species>)  
Identification: Identification page (<http://www.cbs.knaw.nl/Aspergillus/BiolomicsID.aspx?IdentScenario=Aspergillus and Penicillium Species>)  
Classification: taxonomic classification visible in search results via link to Mycobank ()  
Comments:  
Importance level: A

---

Name: Q-bank Plant Viruses and Viroids  
Description: The Plant Viruses and Viroids database contains information on plant viruses and viroids. Currently the database focuses on species that are regulated in the European Union (EU Directive on Plant Health 2000/29/EC) and/or present on the A1/A2/Alert lists of the European and Mediterranean Plant Protection Organization (EPPO). In the future we intend to extend the number of plant virus and viroid species.  
Country of origin: EU  
Country coverage: world wide  
Main website: Main website (<http://www.cbs.knaw.nl/aspergillus/>)  
Search: Search page (<http://www.cbs.knaw.nl/Aspergillus/Biolomics.aspx?Table=Aspergillus and Penicillium Species>)  
Identification: Identification page (<http://www.cbs.knaw.nl/Aspergillus/BiolomicsID.aspx?IdentScenario=Aspergillus and Penicillium Species>)

Classification: taxonomic classification visible in search results via link to Mycobank ()  
Comments: Links to different search engines  
Importance level: A

---

Name: QBOL  
Description: A consortium of 20 partners (universities, research institutes and phytosanitary organizations) from all over the world working together and sharing their research expertise in the field of DNA barcoding of Arthropods, Bacteria, Fungi, Nematodes, Phytoplasmas and Viruses.  
Country of origin: EU  
Country coverage: world wide  
Main website: Main website (<http://www.qbol.org/en/qbol.htm>)  
Search:  
Identification:  
Classification:  
Comments: Also search for LSU available:  
[https://biotech.inbre.alaska.edu/fungal\\_portal/?program=fungal\\_search\\_lsu\\_thread](https://biotech.inbre.alaska.edu/fungal_portal/?program=fungal_search_lsu_thread)  
Importance level: A

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Name: European Information and Research Network on Aquatic Invasive Species (ERNAIS)  
Description: This virtual research network aims (i) to facilitate international cooperation in research, scientific information exchange and management of aquatic invasive species in Europe and worldwide (ERNAIS Experts Database), (ii) to develop the on-line information system on aquatic invasive species for European coastal and inland waters with early warning functions (AquaInvader Database), (iii) to edit of online journal, focusing on applied issues of aquatic invasions in Europe (Aquatic Invasions) and (iv) to participate in the Global Invasive Species Information Network (GISIN), via development of the European Information Network on Invasive Species.  
Country of origin: EU  
Country coverage: world wide  
Main website: Main website (<http://www.reabic.net/ERNAIS.aspx>)  
Search: Search page (<http://www.reabic.net/Aquainv.aspx>)  
Identification:  
Classification:  
Comments: List of invasive species: <http://www.invasive.org/species/weeds.cfm?images> See also <http://www.invasiveplantatlas.org/index.html>  
Importance level: B

---

Name: North European and Baltic Network on Invasive Alien Species (NOBANIS)

Description: The European Network on Invasive Alien Species (NOBANIS) is a gateway to information on alien and invasive species in North and Central Europe.

Country of origin: EU

Country coverage: world wide

Main website: Main website (<http://www.nobanis.org/>)

Search: Search page (<http://www.nobanis.org/Search.asp>)

Identification: Identification page (<http://www.nobanis.org/MarineIdKey/general%20intro/IntroMarineKey.htm>)

Classification:

Comments:

Importance level: B

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Name: Ensemble

Description: The Ensembl project produces genome databases for vertebrates and other eukaryotic species, and makes this information freely available online.

Country of origin: EU/UK

Country coverage: world wide

Main website: Main website (<http://www.ensembl.org/Multi/blastview>)

Search: Search page (<http://www.ensembl.org/Multi/blastview>)

Identification: Identification page (<http://www.ensembl.org/Multi/blastview>)

Classification:

Comments: Use the search function after registration.

Importance level: C

---

Name: AphanoDB

Description: A data bank for Aphanomyces ESTs. The oomycetes are filamentous microorganisms that have been classified within the fungi for a long time, but they are phylogenetically distant from the Kingdom fungi and are more related to diatoms and brown algae. Because of their original taxonomic position and their biological properties (motile spores, cellulosic cell walls, specific metabolism, etc.), the mechanisms underlying pathogenicity of the oomycetes cannot be directly deduced from those of the true fungi, and are poorly understood.

Country of origin: France

Country coverage: world wide

Main website: Main website (<http://www.polebio.scsv.ups-tlse.fr/aphano/>)

Search: Search page (<http://www.polebio.scsv.ups-tlse.fr/aphano/>)

Identification: Identification page (<http://www.polebio.scsv.ups-tlse.fr/aphano/blast1.php>)

Classification:

Comments:

Importance level: B

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Name: Museum National d'Histoire Naturelle

Description: Searching on different botany collections

Country of origin: France

Country coverage: world wide

Main website: Main website ([http://science.mnhn.fr/all/search?lang=en\\_US&full\\_text=](http://science.mnhn.fr/all/search?lang=en_US&full_text=))

Search: Search page ([http://science.mnhn.fr/all/search?lang=en\\_US&full\\_text=](http://science.mnhn.fr/all/search?lang=en_US&full_text=))

Identification:

Classification:

Comments:

Importance level: B

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Name: Plants of Gabon

Description: Gabon is one of the the most heavily forested countries in the world, with 82% of the land surface covered. Next to these extensive forests, Gabon has some savannah areas in the South-West and the South-East and an additional small central savannah. Along the Atlantic coast a coastal savannah is present with a quite unique flora. This database, the most comprehensive resource of its type for Gabon, contains over 65,000 specimens, about 90% of all plants known to have been collected in Gabon.

Country of origin: Gabon

Country coverage: Gabon

Main website: Main website (<http://herbaria.plants.ox.ac.uk/bol/gabon>)

Search: Search page (<http://herbaria.plants.ox.ac.uk/bol/gabon>)

Identification:

Classification:

Comments:

Importance level: B

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Name: Conservatoire et jardin botaniques ville de geneve

Description: The Conservatory and Botanical Gardens of the City of Geneva has developed a database called "Système d'informations botanique de Genève" (SIGB). This tool facilitates the management of scientific projects and herbarium collections as well as of the living collections.

Country of origin: Geneva

Country coverage: world wide

Main website: Main website ([http://www.ville-ge.ch/cjb/bd\\_en.php](http://www.ville-ge.ch/cjb/bd_en.php))  
Search: Search page (<http://www.ville-ge.ch/musinfo/bd/cjb/chg/advanced.php?lang=en>)  
Identification:  
Classification:  
Comments: Links to QBOL databases (Q-bank)  
Importance level: C

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Name: PlantPIs  
Description: PlantPIs a database collecting plant protease inhibitors data. The web resource is based on a relational database, containing data of plants protease inhibitors publicly accessible, and a graphical user interface providing all the necessary browsing tools, including data export functionality.  
Country of origin: Italy  
Country coverage: world wide  
Main website: Main website (<http://plantpis.ba.itb.cnr.it/>)  
Search: Search page ([http://plantpis.ba.itb.cnr.it/index.php?option=com\\_fabrik&view=table&tableid=32&calculations=0&resetfilters=1&Itemid=57](http://plantpis.ba.itb.cnr.it/index.php?option=com_fabrik&view=table&tableid=32&calculations=0&resetfilters=1&Itemid=57))  
Identification:  
Classification:  
Comments:  
Importance level: B

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Name: ITSoneDB  
Description: ITSoneDB is a comprehensive collection of the fungal ribosomal RNA Internal Transcribed Spacer 1 (ITS1) sequences aimed at supporting metagenomic surveys of fungal environmental communities.  
Country of origin: Italy  
Country coverage: world wide  
Main website: Main website (<http://bioinformatics.ba.itb.cnr.it/index.php/itsonedb>)  
Search: Search page (<http://itsonedb.ba.itb.cnr.it/>)  
Identification:  
Classification:  
Comments:  
Importance level: B

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Name: National Institute of Agrobiological Sciences

Description: The NIAS (National Institute of Agrobiological Sciences) Genebank is the central coordinating institute in Japan for conservation of plants, microorganisms, animals and DNA materials related to agriculture. The NIAS Genebank coordinates this activity in collaboration with a network of institutes throughout Japan.

Country of origin: Japan

Country coverage: world wide

Main website: Main website ([http://www.gene.affrc.go.jp/databases\\_en.php](http://www.gene.affrc.go.jp/databases_en.php))

Search: Search page ([http://www.gene.affrc.go.jp/databases-plant\\_search\\_en.php](http://www.gene.affrc.go.jp/databases-plant_search_en.php))

Identification:

Classification:

Comments:

Importance level: B

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Name: New Zealand National Herbarium Network

Description: The New Zealand Virtual Herbarium (NZVH) is a collaborative Network project that aims to provide on-line access to the information managed by herbaria in New Zealand. It provides access to data from over 600,000 specimen records.

Country of origin: New Zealand

Country coverage: New Zealand

Main website: Main website (<http://www.nzherbaria.org.nz/virtherb.asp>)

Search: Search page (<http://www.virtualherbarium.org.nz/search.1>)

Identification: Identification page (<http://www.virtualherbarium.org.nz/search.1>)

Classification:

Comments:

Importance level: B

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Name: Global invasive Species Database

Description: The Global Invasive Species Database (GISD) aims to increase awareness about invasive alien species and to facilitate effective prevention and management activities. It is managed by the Invasive Species Specialist Group (ISSG) of the SSC- Species Survival Commission of the IUCN -International Union for Conservation of Nature.

Country of origin: New Zealand

Country coverage: world wide

Main website: Main website (<http://www.issg.org/database/welcome/>)

Search: Search page (<http://www.issg.org/database/welcome/>)

Identification:



Classification:

Comments:

Importance level: B

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Name: International Institute of Tropical Agriculture

Description: IITA's genebank holds over 28 000 accessions of major food crops of Africa, namely cowpea (*Vigna unguiculata*), cassava (*Manihot esculenta*), yam (*Dioscorea* sp.), soybean (*Glycine max*), bambara groundnut (*Vigna subterranea*), maize (*Zea mays*), and plantain and banana (*Musa* sp.)

Country of origin: Nigeria

Country coverage: world wide

Main website: Main website (<http://www.iita.org/genetic-resources;jsessionid=42B7F4978A9D122C41F910D798AE553E>)

Search: Search page (<http://genebank.iita.org/>)

Identification:

Classification: Classification page (<http://genebank.iita.org/>)

Comments:

Importance level: B

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Name: Plant Collections from Papua New Guinea

Description: the Collection Database of Papua New Guinea National Herbarium (LAE).

Country of origin: Papua New Guinea

Country coverage: world wide

Main website: Main website (<http://www.pngplants.org/PNGdatabase>)

Search: Search page (<http://www.pngplants.org/search.htm>)

Identification:

Classification:

Comments:

Importance level: B

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Name: SIBIS:SABIF

Description: SIBIS is the gateway to SANBI's biodiversity information, and information shared by SANBI partners. SIBIS provides access to over 10 million occurrence records and comprehensive coverage of South Africa's 22 000+ plant species.

Country of origin: South Africa

Country coverage: South Africa

Main website: Main website (<http://sibis.sanbi.org/faces/Home.jsp?1=1>)  
Search: Search page (<http://sibis.sanbi.org/faces/SearchSpecimen/SpecimenSearch.jsp?1=1>)  
Identification:  
Classification:  
Comments: California Invasive Plant Inventory Database  
Importance level: A

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Name: Comparative Fungal Genomics Platform  
Description: web based multifunctional informatics workbench  
Country of origin: South Korea  
Country coverage: world wide  
Main website: Main website (<http://cfgp.riceblast.snu.ac.kr/main.php>)  
Search: Search page (<http://cfgp.riceblast.snu.ac.kr/main.php>)  
Identification: Identification page (<http://cfgp.riceblast.snu.ac.kr/main.php>)  
Classification:  
Comments:  
Importance level: B

---

Name: Museum of evolution - Uppsala Universitet  
Description: The Museum of Evolution protects and displays Uppsala University's natural history collections - fossils, minerals, animals, and plants. We have more than 5 million specimens in our collections. Botanical specimens in the collections of the Museum of Evolution. Herbarium UPS includes approximately 3,120,000 objects, 620,000 of which have been digitized so far (22 April 2013). Digitized objects include vascular plants, fungi (incl. lichens), bryophytes, and algae.  
Country of origin: Sweden  
Country coverage: world wide  
Main website: Main website (<http://www.evolutionsmuseet.uu.se/samling/collectionseng.html>)  
Search: Search page (<http://130.238.83.220/botanik/findrecords.php?-link=Find>)  
Identification:  
Classification:  
Comments:  
Importance level: B

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Name: OrthoDB  
Description: OrthoDB presents a catalog of orthologous protein-coding genes across 52 vertebrates, 45 arthropods, 142 fungi, 13 basal metazoans, and 1115 bacteria. Orthologon refers to

OrthoDB presents a catalog of orthologous protein-coding genes across 52 vertebrates, 45 arthropods, 142 fungi, 13 basal metazoans, and 1115 bacteria. Orthology refers to the last common ancestor of the species under consideration, and thus OrthoDB explicitly delineates orthologs at each radiation along the species phylogeny. The database of orthologs presents available protein descriptors, together with Gene Ontology and InterPro attributes, which serve to provide general descriptive annotations of the orthologous groups and facilitate comprehensive orthology database querying

Country of origin: Switzerland  
Country coverage: world wide  
Main website: Main website (<http://cegg.unige.ch/orthodb6>)  
Search: Search page (<http://cegg.unige.ch/orthodb6>)  
Identification: Identification page (<http://cegg.unige.ch/orthodb6>)  
Classification:  
Comments:  
Importance level: B

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Name: Mycobank  
Description: MycoBank is an on-line database aimed as a service to the mycological and scientific community by documenting mycological nomenclatural novelties (new names and combinations) and associated data, for example descriptions and illustrations.  
Country of origin: The Netherlands  
Country coverage: world wide  
Main website: Main website (<http://www.mycobank.org/>)  
Search: Search page (<http://www.mycobank.org/Biolomics.aspx?Table=Mycobank&Page=200&ViewMode>)  
Identification: Identification page (<http://www.mycobank.org/DefaultInfo.aspx?Page=polyphasicID>)  
Classification: taxonomic classification visible in search results ()  
Comments:  
Importance level: A

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Name: CBS Aspergillus and Penicillium species database  
Description: This is an interactive key for the identification of Aspergillus and Penicillium species.  
Country of origin: The Netherlands  
Country coverage: world wide  
Main website: Main website (<http://www.cbs.knaw.nl/aspergillus/>)  
Search: Search page (<http://www.cbs.knaw.nl/Aspergillus/Biolomics.aspx?Table=Aspergillus and Penicillium Species>)  
Identification: Identification page (<http://www.cbs.knaw.nl/Aspergillus/BiolomicsID.aspx?IdentScenario=Aspergillus and Penicillium Species>)

Classification: taxonomic classification visible in search results via link to Mycobank ()

Comments:

Importance level: A

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Name: CBS culture collection

Description: The CBS culture collections of micro-organisms are embedded in a scientific environment, which guarantees state of the art quality checks and allows the development of scientific programmes to improve the quality of the material entrusted to them. CBS was actively involved in setting the standards for modern long-term preservation as well as for data storage, recognizing the necessity of data exchangeability

Country of origin: The Netherlands

Country coverage: world wide

Main website: Main website (<http://www.cbs.knaw.nl/aspergillus/>)

Search: Search page (<http://www.cbs.knaw.nl/Aspergillus/Biolomics.aspx?Table=Aspergillus and Penicillium Species>)

Identification: Identification page (<http://www.cbs.knaw.nl/Aspergillus/BiolomicsID.aspx?IdentScenario=Aspergillus and>

Classification: taxonomic classification visible in search results via link to Mycobank ()

Comments:

Importance level: A

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Name: National Herbarium of The Netherlands (NHN) online

Description: The NHN herbarium database incorporates data from various sources. A majority of records relate to specimens held at one of the NHN herbaria (L, U & WAG). The database also contains records of duplicates sent to other herbaria, specimens databased for taxonomic revision and from areas of special interest to NHN, for instance Gabon.

Country of origin: The Netherlands

Country coverage: world wide

Main website: Main website (<http://vstbol.leidenuniv.nl/nhn/Search>)

Search: Search page (<http://vstbol.leidenuniv.nl/>)

Identification:

Classification:

Comments:

Importance level: A

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Name: George Clifford Herbarium

Description: Apart from providing information about Clifford and Linnaeus and the results of their collaborative work - the Hortus Cliffortianus - one can search for information

Apart from providing information about Clifford and Linnaeus and the results of their collaborative work - the Hortus Cliffortianus - one can search for information concerning specific collections. Moreover it is possible to browse the collections

Country of origin: The Netherlands  
Country coverage: world wide  
Main website: Main website (<http://www.george-clifford.nl/UK/introduction.htm>)  
Search: Search page (<http://www.george-clifford.nl/UK/search-UK.htm>)  
Identification:  
Classification:  
Comments:  
Importance level: B

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Name: Fungal Growth Database  
Description: This FUNG-GROWTH database contains carbon source profiles of fungi using 35 different carbon sources ranging from monosaccharides to crude plant biomass. These profiles can be used to compare the relative growth of fungi on different carbon sources.  
Country of origin: The Netherlands  
Country coverage: world wide  
Main website: Main website (<http://www.fung-growth.org/>)  
Search: Search page (<http://www.fung-growth.org/Biolomics.aspx?DB=Fungal%20growth%20website&Table=Fungal%20gro>)  
Identification:  
Classification:  
Comments:  
Importance level: C

---

Name: Aegean Agricultural Research Institute  
Description: Aegean Agricultural Research Institute which ensure the conservation and use of genetic resources in particular, aims to be an internationally recognized research institute by producing solutions to national and global agricultural and natural problems, primarily at regional level; carrying out projects in collaboration with country-region organizations and research institutes.  
Country of origin: Turkey  
Country coverage: Turkey  
Main website: Main website (<http://www.etae.gov.tr/eng/Default.aspx>)  
Search: Search page (<http://www.etae.gov.tr/eng/Default.aspx?page=capsicum>)  
Identification:

Classification:

Comments:

Importance level: D

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Name: EMBL-EBI (ENA)

Description: ENA provides cross-references to external data resources deemed to be important to the user. External resources include services operated by colleagues at the EBI (such as UniProt and Ensembl) and those operated outside the EBI (including SILVA and RFAM).

Country of origin: UK

Country coverage: world wide

Main website: Main website (<http://www.ebi.ac.uk/ena/about/xrefs>)

Search: Search page ([http://www.ebi.ac.uk/ena/about/search\\_and\\_browse](http://www.ebi.ac.uk/ena/about/search_and_browse))

Identification:

Classification:

Comments:

Importance level: B

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Name: Botanic Gardens Conservation International

Description: "The only global database of living plant, seed and tissue collections: Search 1,252,417 collection records, representing 411,642 taxa, at 1,075 institutions; Locate threatened, rare, medicinal and other plant species in living collections; Connect with living collections to aid your conservation, education and research efforts"

Country of origin: UK

Country coverage: world wide

Main website: Main website ([http://www.bgci.org/plant\\_search.php](http://www.bgci.org/plant_search.php))

Search: Search page ([http://www.bgci.org/plant\\_search.php](http://www.bgci.org/plant_search.php))

Identification:

Classification:

Comments:

Importance level: B

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Name: Royal Botanic Garden Edinburgh - Catalogue of the Living Collections

Description: The Royal Botanic Garden Edinburgh grows, in its four gardens, over 15,000 species of plants, the second richest collection of plant species in the world. In order to manage this enormous Living Collection, it keeps a computer database of the species it holds, and where they are growing.

Country of origin: UK

Country coverage: world wide  
Main website: Main website (<http://www.rbge.org.uk/databases>)  
Search: Search page (<http://elmer.rbge.org.uk/bgbase/vherb/bgbasevherb.php?>)  
Identification:  
Classification:  
Comments:  
Importance level: B

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Name: Royal Botanic Garden Edinburgh - Herbarium Catalogue  
Description: Search our collection of herbarium specimens  
Country of origin: UK  
Country coverage: world wide  
Main website: Main website (<http://www.rbge.org.uk/databases>)  
Search: Search page (<http://elmer.rbge.org.uk/bgbase/vherb/bgbasevherb.php>)  
Identification:  
Classification:  
Comments:  
Importance level: B

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Name: CABI  
Description: CABI's Genetic Resource Collection contains over 28,000 strains. Many of our strains are unique and we supply authenticated reference, type, and test strains. We maintain test strains from European, UK and US testing standards, and hold many other test and challenge strains. We also hold production strains for enzymes, metabolites, active biomolecules and novel products.  
Country of origin: UK  
Country coverage: world wide  
Main website: Main website (<http://cabi.bio-aware.com/>)  
Search: Search page (<http://cabi.bio-aware.com/Biolomics.aspx?Table=GRC%20catalogue>)  
Identification:  
Classification: taxonomic classification visible in search results ()  
Comments:  
Importance level: B

---

Name: Kew Royal Botanic Gardens

Description: "This site provides access to those specimen records and images available digitally through the Herbarium Catalogue. The Herbarium at the Royal Botanic Gardens Kew houses approximately 7 million specimens, collected from all around the world. Specimens are either pressed and dried or preserved in spirit. "

Country of origin: UK

Country coverage: world wide

Main website: Main website (<http://apps.kew.org/herbcat/gotoHomePage.do>)

Search: Search page (<http://apps.kew.org/herbcat/gotoSearchPage.do>)

Identification:

Classification:

Comments:

Importance level: B

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Name: Royal Botanic Garden Edinburgh - Library Catalogue

Description:

Country of origin: UK

Country coverage: world wide

Main website: Main website (<http://www.rbge.org.uk/databases>)

Search: Search page  
(<http://unicorn.rbge.org.uk/uhtbin/cgisirsi.exe?ps=qMMHXkVIm4/0/252890078/60/50>)

Identification:

Classification:

Comments:

Importance level: C

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Name: USDA Natural Resources Conservation Service

Description: The PLANTS Database provides standardized information about the vascular plants, mosses, liverworts, hornworts, and lichens of the U.S. and its territories.

Country of origin: USA

Country coverage: USA

Main website: Main website (<http://plants.usda.gov/java/>)

Search: Search page ([http://plants.usda.gov/adv\\_search.html](http://plants.usda.gov/adv_search.html))

Identification: Identification page (<http://plants.usda.gov/characteristics.html>)

Classification: Classification page (<http://plants.usda.gov/classification.html>)

Comments:

Importance level: A



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Name: USGS Non indigenous Aquatic Species

Description: Welcome to the Nonindigenous Aquatic Species (NAS) information resource for the United States Geological Survey. Located at Gainesville, Florida, this site has been established as a central repository for spatially referenced biogeographic accounts of introduced aquatic species. The program provides scientific reports, online/realtime queries, spatial data sets, regional contact lists, and general information. The data are made available for use by biologists, interagency groups, and the general public. The geographical coverage is the United States.

Country of origin: USA

Country coverage: USA

Main website: Main website (<http://nas.er.usgs.gov/default.aspx>)

Search: Search page (<http://nas.er.usgs.gov/queries/SpSimpleSearch.aspx>)

Identification:

Classification:

Comments:

Importance level: C

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Name: Animal and Plant Health Inspection Service

Description: Information Plant Health for import into and export from the US

Country of origin: USA

Country coverage: USA

Main website: Main website (<http://www.aphis.usda.gov/wps/portal/aphis/home/>)

Search:

Identification:

Classification:

Comments:

Importance level: C

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Name: Center for Invasive Species and Ecosystem Health

Description: The focus of BugwoodImages is on species of economic concern. Images cover invasive species, forestry, agriculture, integrated pest management, plants, insects, diseases, fungi, wildlife, fire and other natural resource issues. Images are reviewed for content and quality. Currently BugwoodImages has 218,352 images, on 20,587 subjects with 2,223 contributing photographers. BugwoodImages also has a wide audience including growers, managers, researchers, diagnosticians, consultants, regulatory officials, educators, journalist and the general public from all around the world.

Country of origin: USA

Country coverage: USA  
Main website: Main website (<http://www.invasive.org/>)  
Search:  
Identification:  
Classification:  
Comments:  
Importance level: C

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Name: California Invasive Plant Council  
Description: Cal-IPC's mission is to protect California's lands and waters from ecologically-damaging invasive plants through science, education and policy. We work closely with agencies, industry and other nonprofit organizations to support research, restoration work, and public education.  
Country of origin: USA  
Country coverage: USA, California  
Main website: Main website (<http://www.cal-ipc.org/>)  
Search: Search page (<http://www.cal-ipc.org/paf/>)  
Identification:  
Classification:  
Comments: For plant profiles see [http://www.cal-ipc.org/ip/management/plant\\_profiles/](http://www.cal-ipc.org/ip/management/plant_profiles/)  
Importance level: C

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Name: Tropicos  
Description: Tropicos® was originally created for internal research but has since been made available to the world's scientific community. All of the nomenclatural, bibliographic, and specimen data accumulated in MBG's electronic databases during the past 25 years are publicly available here. This system has over 1.2 million scientific names and 4.0 million specimen records.  
Country of origin: USA  
Country coverage: world wide  
Main website: Main website (<http://www.tropicos.org/Home.aspx>)  
Search: Search page (<http://www.tropicos.org/SpecimenSearch.aspx>)  
Identification:  
Classification:  
Comments: Lists the specimen in their collection.  
Importance level: A

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Name: Genbank

Description: GenBank ® is the NIH genetic sequence database, an annotated collection of all publicly available DNA sequences.

Country of origin: USA

Country coverage: world wide

Main website: Main website (<http://www.ncbi.nlm.nih.gov/>)

Search: Search page (<http://www.ncbi.nlm.nih.gov/>)

Identification: Identification page (<http://blast.ncbi.nlm.nih.gov/Blast.cgi>)

Classification: Classification page (<https://www.ncbi.nlm.nih.gov/Taxonomy/CommonTree/wwwcmt.cgi>)

Comments:

Importance level: A

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Name: Aquatic Invasions Research Directory

Description: The Aquatic Invasions Research Directory (AIRD), created by the Smithsonian Environmental Research Center, is a free database designed to promote information transfer, coordination, and collaborative research on the invasion of aquatic ecosystems. AIRD contains current information on people, research, technology, policy and management issues relevant to aquatic invasions.

Country of origin: USA

Country coverage: world wide

Main website: Main website (<http://www.polebio.scsv.ups-tlse.fr/aphano/>)

Search: Search page (<http://www.polebio.scsv.ups-tlse.fr/aphano/>)

Identification: Identification page (<http://invasions.si.edu/nisbase/index.jsp?do=prjrch>)

Classification:

Comments:

Importance level: B

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Name: Global Invasive Species Information Network

Description: The Global Invasive Species Information Network (GISIN) provides a platform for sharing invasive species information at a global level, via the Internet. You can search, browse, and download data from the menu on the left.

Country of origin: USA

Country coverage: world wide

Main website: Main website ([http://www.gisin.org/DH.php?WC=/WS/GISIN/GISINDirectory/home\\_new.html&WebSiteID=4](http://www.gisin.org/DH.php?WC=/WS/GISIN/GISINDirectory/home_new.html&WebSiteID=4))

Search: Search page (<http://www.gisin.org/cwis438/websites/GISINDirectory/Search.php?WebSiteID=4>)

Identification:

Classification:

Comments:

Importance level: B

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Name: University of Florida Herbarium

Description: The University of Florida Herbarium is a unit of the Department of Natural History of the Florida Museum of Natural History. The herbarium is affiliated with the Institute of Food and Agricultural Sciences, Florida Agricultural Experiment Station, Florida Cooperative Extension Service, Department of Biology and the Department of Plant Pathology.

Country of origin: USA

Country coverage: world wide

Main website: Main website (<http://www.flmnh.ufl.edu/herbarium/>)

Search: Search page (<http://www.flmnh.ufl.edu/herbarium/cat/catsearch.htm>)

Identification:

Classification:

Comments:

Importance level: B

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Name: University of Arizona South, Agricultural Extension Service

Description: CCH is totally staffed by volunteers. The herbarium is supported both by the Extension Service of the University of Arizona south and by fund raising. CCH is a participant in SEINET (<http://swbiodiversity.org/seinet/index.php>)

Country of origin: USA

Country coverage: world wide

Main website: Main website (<http://cochisecountyherbarium.org/index.html>)

Search: Search page (<http://www.cochisecountyherbarium.org/plants.php>)

Identification:

Classification:

Comments:

Importance level: B

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Name: Systematic Mycology and Microbiology Laboratory

Description: Systematic Mycology and Microbiology Laboratory Fungal Database.

Country of origin: USA

Country coverage: world wide  
Main website: Main website (<http://nt.ars-grin.gov/fungaldatabases/>)  
Search: Search page (<http://nt.ars-grin.gov/fungaldatabases/index.cfm>)  
Identification:  
Classification:  
Comments:  
Importance level: B

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Name: Fungal Metagenomics Project's Website  
Description: Sequence similarity searches  
Country of origin: USA  
Country coverage: world wide  
Main website: Main website (<http://www.borealfungi.uaf.edu/>)  
Search: Search page ([https://biotech.inbre.alaska.edu/fungal\\_portal/?program=fungal\\_search\\_its\\_thread](https://biotech.inbre.alaska.edu/fungal_portal/?program=fungal_search_its_thread))  
Identification:  
Classification:  
Comments:  
Importance level: C

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Name: Saccharomyces Genome Database  
Description: The Saccharomyces Genome Database (SGD) provides comprehensive integrated biological information for the budding yeast *Saccharomyces cerevisiae* along with search and analysis tools to explore these data, enabling the discovery of functional relationships between sequence and gene products in fungi and higher organisms.  
Country of origin: USA  
Country coverage: world wide  
Main website: Main website (<http://www.yeastgenome.org/>)  
Search: Search page (<http://yeastmine.yeastgenome.org/yeastmine/begin.do>)  
Identification: Identification page (<http://www.yeastgenome.org/cgi-bin/blast-fungal.pl>)  
Classification:  
Comments:  
Importance level: C

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Name: GrainGenes: a database for Triceae and Avena

Description: GBrowse. GBrowse, developed by the GMOD group, is a Genome Browser that provides a wealth of genome annotation for maps in the GrainGenes collection.

Country of origin: USA

Country coverage: world wide

Main website: Main website (<http://wheat.pw.usda.gov/GG2/index.shtml>)

Search: Search page (<http://wheat.pw.usda.gov/GG2/quickquery.shtml>)

Identification: Identification page (<http://wheat.pw.usda.gov/GG2/blast.shtml>)

Classification:

Comments:

Importance level: C

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Name: Tree of Life Project - phylogeny and biodiversity

Description: The Tree of Life Web Project (ToL) is a collaborative effort of biologists and nature enthusiasts from around the world. On more than 10,000 World Wide Web pages, the project provides information about biodiversity, the characteristics of different groups of organisms, and their evolutionary history.

Country of origin: USA

Country coverage: world wide

Main website: Main website (<http://tolweb.org/tree/phylogeny.html>)

Search: Search page (<http://tolweb.org/tree/home.pages/search.html>)

Identification:

Classification:

Comments: Also search available on NCCB strains and other

Importance level: C

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Name: Plant Secretome KnowledgeBase

Description:

Country of origin: USA

Country coverage: world wide

Main website: Main website (<http://proteomics.yzu.edu/secretomes/plant0.php>)

Search: Search page (<http://proteomics.yzu.edu/secretomes/plant0.php>)

Identification: Identification page (<http://proteomics.yzu.edu/secretomes/plant0.php>)

Classification:

Comments:

Importance level: C

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Name: Fungal Secretome KnowledgeBase  
Description: Fungal Secretome KnowledgeBase  
Country of origin: USA  
Country coverage: world wide  
Main website: Main website (<http://proteomics.yzu.edu/secretomes/fungi.php>)  
Search: Search page (<http://proteomics.yzu.edu/secretomes/fungi.php>)  
Identification: Identification page (<http://proteomics.yzu.edu/secretomes/fungi.php>)  
Classification:  
Comments:  
Importance level: C

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Name: DFVF  
Description: Database of Virulence Factors in Fungal Pathogens. Fungal pathogens cause various diseases to hosts from plants to animals, and fungal diseases have contributed to death and disability in humans, devastated agricultural crops, and triggered global wildlife extinctions or population declines.  
Country of origin: USA  
Country coverage: world wide  
Main website: Main website (<http://sysbio.unl.edu/DFVF/Search.php>)  
Search: Search page (<http://sysbio.unl.edu/DFVF/Search.php>)  
Identification:  
Classification:  
Comments:  
Importance level: D

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Name: Minnesota Department of Natural Resources  
Description: Invasive species are a serious threat to lakes, rivers, wetlands, recreation, property values, and tourism in Minnesota. The purpose of this web page is to serve as a clearing house for information related to managing aquatic invasive plants in Minnesota.  
Country of origin: USA  
Country coverage: world wide  
Main website: Main website (<http://www.dnr.state.mn.us/invasives/aquaticplants/index.html>)  
Search:  
Identification: Identification page (<http://www.dnr.state.mn.us/invasives/aquaticplants/index.html>)

Classification:

Comments:

Importance level: D

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Name: Index Fungorum

Description: documenting mycological nomenclatural novelties and associated data

Country of origin: world wide

Country coverage: world wide

Main website: Main website (<http://cabi.bio-aware.com/>)

Search: Search page (<http://cabi.bio-aware.com/Biolomics.aspx?Table=GRC%20catalogue>)

Identification:

Classification: taxonomic classification visible in search results ()

Comments:

Importance level: A

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Name: EOL Encyclopedia of Life

Description: Global access to knowledge about life on Earth through the encyclopedia of Life. Our mission is to increase awareness and understanding of living nature through an Encyclopedia of Life that gathers, generates, and shares knowledge in an open, freely accessible and trusted digital resource.

Country of origin: world wide

Country coverage: world wide

Main website: Main website (<http://cabi.bio-aware.com/>)

Search: Search page (<http://cabi.bio-aware.com/Biolomics.aspx?Table=GRC%20catalogue>)

Identification:

Classification: taxonomic classification visible in search results ()

Comments:

Importance level: B

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Name: Naturhistorisches Museum Wien

Description: The Herbarium of the Natural History Museum in Vienna (W) was established in 1807. Current holdings in NHMW are of approximately 5.5 million plant specimens. The herbarium is especially rich in types (the plant specimen to which the scientific name of that species is attached) with around 200,000 type specimens. Although one sixth of the collection was destroyed during the Second World War, the herbarium is ranked amongst the top five botanical collections in the world.

Country of origin: Austria



Country coverage: world wide  
Main website: Main website (<http://www.nhm-wien.ac.at/en>)  
Search: Search page (<http://herbarium.univie.ac.at/database/search.php>)  
Identification:  
Classification:  
Comments:  
Importance level: B

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Name: AfrikaMuseum Tervuren - Mineralogy Database  
Description: The collection of mineral specimens comprises more than 15.000 samples, representing nearly 1000 different mineral species. Most samples are derived from Central Africa, particularly from the Democratic Republic of Congo and Rwanda. For this region, most major mineral occurrences are well represented in the collection.  
Country of origin: Belgium  
Country coverage: Central Africa  
Main website: Main website (<http://www.africamuseum.be/research/biology/wood/collections>)  
Search: Search page  
(<http://www.africamuseum.be/collections/browsecollections/naturalsciences/earth/mineralogy>)  
Identification:  
Classification:  
Comments:  
Importance level: C

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Name: AfrikaMuseum Tervuren - Myriapoda Collection & Systematics  
Description: The specimen database includes the valid names of the species present in the Royal Museum for Central Africa (RMCA) and all names (valid or synonymous) of type material present in the RMCA.  
Country of origin: Belgium  
Country coverage: Central Africa  
Main website: Main website (<http://www.africamuseum.be/research/biology/wood/collections>)  
Search: Search page  
(<http://www.africamuseum.be/collections/browsecollections/naturalsciences/biology/myriapoda>)  
Identification:  
Classification:  
Comments:  
Importance level: C

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Name: AfrikaMuseum Tervuren - Echinodermata Collection & Systematics

Description: The specimen database includes the valid names of the species present in the Royal Museum for Central Africa (RMCA) and all names (valid or synonymous) of type material present in the RMCA.

Country of origin: Belgium

Country coverage: Central Africa

Main website: Main website (<http://www.africamuseum.be/research/biology/wood/collections>)

Search: Search page  
(<http://www.africamuseum.be/collections/browsecollections/naturalsciences/biology/ecchinodermata>)

Identification:

Classification:

Comments:

Importance level: D

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Name: AfrikaMuseum Tervuren - Crustacea Collection & Systematics

Description: The specimen database includes the valid names of the species present in the Royal Museum for Central Africa (RMCA) and all names (valid or synonymous) of type material present in the RMCA.

Country of origin: Belgium

Country coverage: Central Africa

Main website: Main website (<http://www.africamuseum.be/research/biology/wood/collections>)

Search: Search page  
(<http://www.africamuseum.be/collections/browsecollections/naturalsciences/biology/crustacea>)

Identification:

Classification:

Comments:

Importance level: D

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Name: AfrikaMuseum Tervuren - Acari Collection & Systematics

Description: The specimen database includes the valid names of the species present in the Royal Museum for Central Africa (RMCA) and all names (valid or synonymous) of type material present in the RMCA.

Country of origin: Belgium

Country coverage: Central Africa

Main website: Main website (<http://www.africamuseum.be/research/biology/wood/collections>)

Search: Search page  
(<http://www.africamuseum.be/collections/browsecollections/naturalsciences/biology/acari>)

Identification:

Classification:

Comments:

Importance level: D

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Name: AfrikaMuseum Tervuren - The Natural Disaster Database for Central Africa

Description: The database records over 270 reported disasters (droughts, floods, storms, earthquakes, volcanic activity and mass movements) that occurred in the Democratic Republic of Congo (DRC), Rwanda and Burundi after 1900. They caused almost 2,000 reported deaths and affected more than 12.2 million people. Over 500 ravines and landslides have also been identified using high-resolution satellite imagery.

Country of origin: Belgium

Country coverage: Central Africa

Main website: Main website (<http://www.africamuseum.be/research/biology/wood/collections>)

Search: Search page  
(<http://www.africamuseum.be/collections/browsecollections/naturalsciences/earth/hazard>)

Identification:

Classification:

Comments:

Importance level: C

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Name: AfrikaMuseum Tervuren - Wood biology

Description: Number of specimen: 61474. Number of species +/- 14000. Geographical span As the Tervuren xylarium is the only governmental collection in Belgium, it has a worldwide concern: next to African, other tropical and temperate woods are being included. Time span: collected from end 19th century onwards.

Country of origin: Belgium

Country coverage: world wide

Main website: Main website (<http://www.africamuseum.be/research/biology/wood/collections>)

Search: Search page  
(<http://www.africamuseum.be/collections/browsecollections/naturalsciences/earth/xylarium>)

Identification:

Classification:

Comments:

Importance level: A

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Name: BCCM-LMG

Description: BCCM/LMG is a bacterial culture collection currently comprising over 25.000 well-characterized strains. The biological origin of our collection is very broad, including bacterial isolates from food, clinical, veterinary, agricultural, aquatic and other environmental sources. This way, the biological resources of BCCM/LMG may serve the needs of various R&D sectors, including green, red, blue and white biotechnology.

Country of origin: Belgium

Country coverage: world wide

Main website: Main website (<http://bccm.belspo.be/about-us/bccm-lmg>)

Search: Search page (<http://bccm.belspo.be/catalogues/ihem-catalogue-search>) Search page (<http://www.mycorrhiza.be/ginco-bel/catalogue.php>)

Identification:

Classification:

Comments:

Importance level: C

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Name: Fauna Europaea

Description: Fauna Europaea has assembled a database of the scientific names and distribution of all living multicellular European land and fresh-water animals.

Country of origin: EU

Country coverage: EU

Main website: Main website (<http://www.faunaeur.org/>)

Search: Search page (<http://www.faunaeur.org/index.php>)

Identification:

Classification: Classification page ([http://www.faunaeur.org/taxon\\_tree.php](http://www.faunaeur.org/taxon_tree.php))

Comments:

Importance level: A

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Name: European commision (EASIN)

Description: EASIN aims to facilitate the exploration of existing alien species information in Europe to assist the implementation of european policies on biological invasions

Country of origin: EU

Country coverage: EU

Main website: Main website (<http://easin.jrc.ec.europa.eu/>)

Search: Search page (<http://easin.jrc.ec.europa.eu/use-easin/species-search>)

Identification:

Classification:

Comments:

Importance level: A

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Name: NOBANIS

Description: The European Network on Invasive Alien Species (NOBANIS) was established as a network between authorities of the region. The network was initiated with funding by the Nordic Council of Ministers. One of the main goals is to provide tools for implementing the precautionary approach against the unintentional dispersal of invasive alien species. It also establishes regional cooperation to aid countries in eradication, control and mitigation of these species.

Country of origin: EU

Country coverage: EU

Main website: Main website (<http://www.nobanis.org/>)

Search: Search page (<http://www.nobanis.org/Search.asp>)

Identification:

Classification:

Comments:

Importance level: B

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Name: Euro+Med Plantbase

Description: The Euro+Med PlantBase provides an on-line database and information system for the vascular plants of Europe and the Mediterranean region, against an up-to-date and critically evaluated consensus taxonomic core of the species concerned.

Country of origin: EU

Country coverage: EU

Main website: Main website (<http://www.emplantbase.org/home.html>)

Search: Search page (<http://ww2.bgbm.org/EuroPlusMed/query.asp>)

Identification:

Classification:

Comments:

Importance level: B

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Name: DSMZ

Description: The DSMZ currently hosts approx. 20,000 microorganisms, over 600 plant viruses, more than 740 human and animal cell lines and 770 plant cell cultures all of which can be found and ordered from our online catalogues.

Country of origin: Germany  
Country coverage: world wide  
Main website: Main website (<http://www.dsmz.de/>)  
Search: Search page (<http://www.dsmz.de/catalogues/catalogue-microorganisms.html>)  
Identification:  
Classification:  
Comments:  
Importance level: A

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Name: International Phytoplasma Working group  
Description: Phytoplasma collection in micropropagated shoots at the Phytoplasma Laboratory, Plant Pathology, DiSTA - Alma Mater Studiorum - University of Bologna, Italy More than 140 phytoplasma strains classified on 16Sr DNA gene are available for exchange with worldwide laboratories working on phytoplasma-associated diseases.  
Country of origin: Italy  
Country coverage: worldwide  
Main website: Main website (<http://www.ipwgnet.org>)  
Search:  
Identification:  
Classification:  
Comments:  
Importance level: A

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