

PROJECT FULL TITLE:
**COORDINATION AND COLLABORATION BETWEEN REFERENCE COLLECTIONS OF
PLANT PESTS AND
DISEASES FOR EU PLANT HEALTH POLICY**

GRANT AGREEMENT NO.: (612712)



Workpackage: WP5. Info portal
Deliverable: Deliverable Nr 5.4,
Title: Information in a repository (info-portal)
Date: Date deliverable 9/11/2015
Partner responsible: Partner 6 (KNAW-CBS)

Data and deliverables collected during the project have all been stored in and are publically available from the Q-collect website maintained by EPPO at www.q-collect.eu. As mentioned in deliverable 5.3, a sub-website of the Q-bank website was also created and includes a number of features that were decided in deliverables 5.2 and 5.3. This includes, a welcome page containing the above text (see <http://www.q-bank.eu/Defaultinfo.aspx?Page=Q-Book>; see Figure 1 below); a search engine allowing to find Q-material of interest. For the moment, only bacterial strains from the CFBP collection (Anger, France) are included (see <http://www.q-bank.eu/BioloMICS.aspx?Table=Q-Book>; see Figure 2a & b below); a single deposit form to upload biological material data in the Q-Book system (see <http://www.q-bank.eu/BioloMICSUpdate.aspx?Table=Q-Book%20deposit%20form>; see Figure 3a-d below); a registration system has also been implemented to avoid unwanted deposits; a multiple/batch deposit sheet to upload biological material data in the Q-Book system (<http://www.q-bank.eu/Files/Deposit.xlsx>; see Figure 4 below); a search engine for repositories of interest (deliverable 5.1. see <http://www.q-bank.eu/biolomics.aspx?Table=Q-Repositories>; see Figure 5a & b below); a list of repertories of interest as pdf document (http://www.q-bank.eu/Files/QCollect%20report%20WP5.1_2.pdf).

Figure. 1. Welcome page Q-Book

Q-bank COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES

Home Fungi Bacteria Plants Nematodes Arthropods Phytoplasmas Viruses/viroids ID More

Q-Book Systems Pilote Project

This website is the result of an initiative of Work package 5 of the Q-Collect project.

The basic idea behind the Q-Book systems is to allow any researcher or collection working in quarantine related field to store, manage, analyze and publish data associated to their Biological Material on a freely available platform deeply associated, intermixed with Q-bank and EPPO system. The system would be able to cope with the needs of very small to very large Collections.

Deposit your data

Single record deposit form, [here](#)
Download batch deposit form, [here](#)

Coordinator:

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the Netherlands

Program manager:

Ir. Mariëtte Edema

Species based
EPPO Q-Bank

Strains & Specimens based
NCBI SwissProt Major collections PubMed


FUTURE Q BOOK
The missing link for data integration ...

Geography Climate
Many More ...

The new pipeline will include:

1. A mobile application (IOS, Android and Windows Mobile) to collect sample information (pictures, GIS coordinates, time and miscellaneous metadata) directly in the field.
2. A lightweight desktop application that will synchronize with the mobile app and where a complete and extensible set of data will be recordable such as administration, bibliographical, geographical, ecological, chemical, physiological, medical, molecular, links to other specialized repositories (e.g. GenBank, GBIF, etc.) and many more. This application will not only allow the storage of data but also to perform advanced queries, polyphasic identifications and classifications based on any combination of characteristics.
3. Data will be stored in a local light weight database.
4. Data will be shareable using the central Q-Book facility that will be accessible, searchable by anyone or by a selected list of co-workers.


Figure. 2a. Search page Q-Book





COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES


Home Fungi Bacteria Plants Nematodes Arthropods Phytoplasmas Viruses/viroids ID More


Search on : Q-Book


Add condition Match on : All conditions Reset base condition(s) Switch to: Advanced Search 


Search conditions (click to collapse) 


☐ Material unique name (C_1) Contains 


☐ Other collections numbers (C_2) Contains 


☐ Original specimen/culture number or name given by collector (C_3) Contains 


☐ Taxon name (C_4) Contains 


☐ Country of origin of specimen (C_5) Country name contains 






☐ Locality of specimen isolation (C_6) Contains 

☐ Host plant taxon name (C_7) Contains 

☐ Host plant part (C_8) Contains 

☐ Other source (substrate or commodity) (C_9) Contains 

☐ Type of organism (C_10) = Do not account 

List Export data   Page 1   5867 Items in 294 Page(s) Page: 20 Sorting information View mode 








<input type="checkbox"/>	Material unique name	Taxon name	Other collections numbers	Country of origin of specimen
<input type="checkbox"/> 	CFBP 1000	Arthrobacter sp.	ATCC 13331, ATCC 1330, NCPPB 180	
<input type="checkbox"/> 	CFBP 1001	Agrobacterium sp. biovar 1	ATCC 13333, NCPPB 5, ICPB TR 104	USA
<input type="checkbox"/> 	CFBP 1003	Curtobacterium flaccumfaciens pv. flaccumfaciens	NCPPB 1412	Hungary
<input type="checkbox"/> 	CFBP 1005	Pseudomonas cichorii	NCPPB 907, ATCC 14121	USA
<input type="checkbox"/> 	CFBP 1013	Bacillus pumilus		Ivory Coast
<input type="checkbox"/> 	CFBP 1019	Pseudomonas syringae pv. syringae		France

Figure. 2b. Detailed strain page Q-Book



Q-bank COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES

Home Fungi Bacteria Plants Nematodes Arthropods Phytoplasmas Viruses/viroids ID More

Search on : Q-Book

Add condition Match on : All conditions Reset base condition(s) Switch to: Advanced Search Search

Search conditions (click to expand)

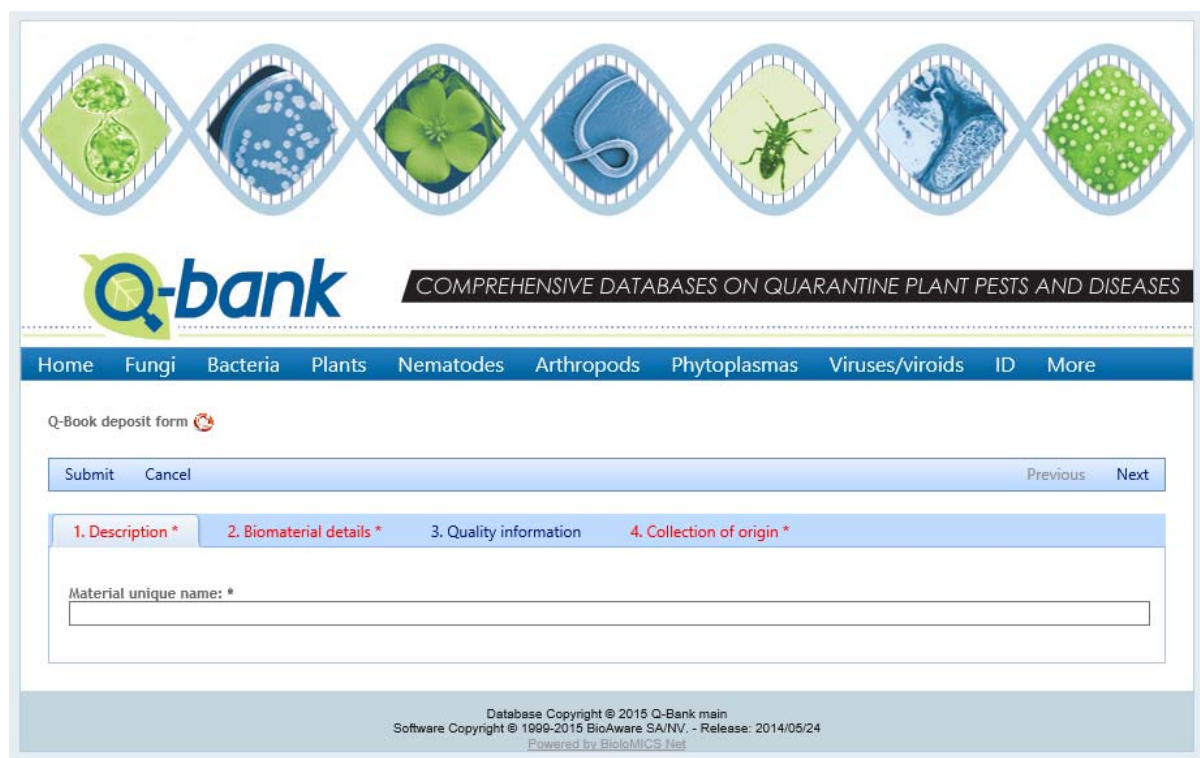
Collapse titles Export data

CFBP 1000 Show empty fields ☐

Biomaterial details	
Other collections numbers :	ATCC 13331, ATCC 1330, NCPPB 180
Type of organism :	Bacteria
Taxon name :	Arthrobacter sp.
Species type :	No
Pathovar type :	No
Host plant taxon name :	Pseudotsuga douglasii
Sampler/collector :	Starr M.P. Tp-102
Date of deposit in collection :	1967
Record visibility :	Visible online
Quality information	
Database is regularly maintained :	Yes
Database is regularly backed up :	Yes
Collection of origin	
Name of original collection :	CFBP
Contact details for responsible person :	Perrine Portier cfbp@angers.inra.fr

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Figure. 3a. Deposit form Q-Book



The image shows a web-based deposit form for Q-Book. At the top, there is a decorative banner with seven circular icons representing different biological entities: a green microorganism, a blue microorganism, a green flower, a blue nematode, a green insect, a blue virus, and a green microorganism. Below the banner is the Q-bank logo and the text "COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES". A navigation bar contains links: Home, Fungi, Bacteria, Plants, Nematodes, Arthropods, Phytoplasmas, Viruses/viroids, ID, and More. The main content area is titled "Q-Book deposit form" with a small icon. Below the title is a form with a "Submit" button and a "Cancel" button. To the right of the buttons are "Previous" and "Next" links. The form is divided into four sections: 1. Description *, 2. Biomaterial details *, 3. Quality information, and 4. Collection of origin *. The first section, "1. Description *", is currently active and contains a text input field labeled "Material unique name: *". At the bottom of the form, there is a footer with copyright information: "Database Copyright © 2015 Q-Bank main", "Software Copyright © 1999-2015 BioAware SA/NV. - Release: 2014/05/24", and "Powered by BioMICS Net".

Q-bank
COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES

Home Fungi Bacteria Plants Nematodes Arthropods Phytoplasmas Viruses/viroids ID More

Q-Book deposit form

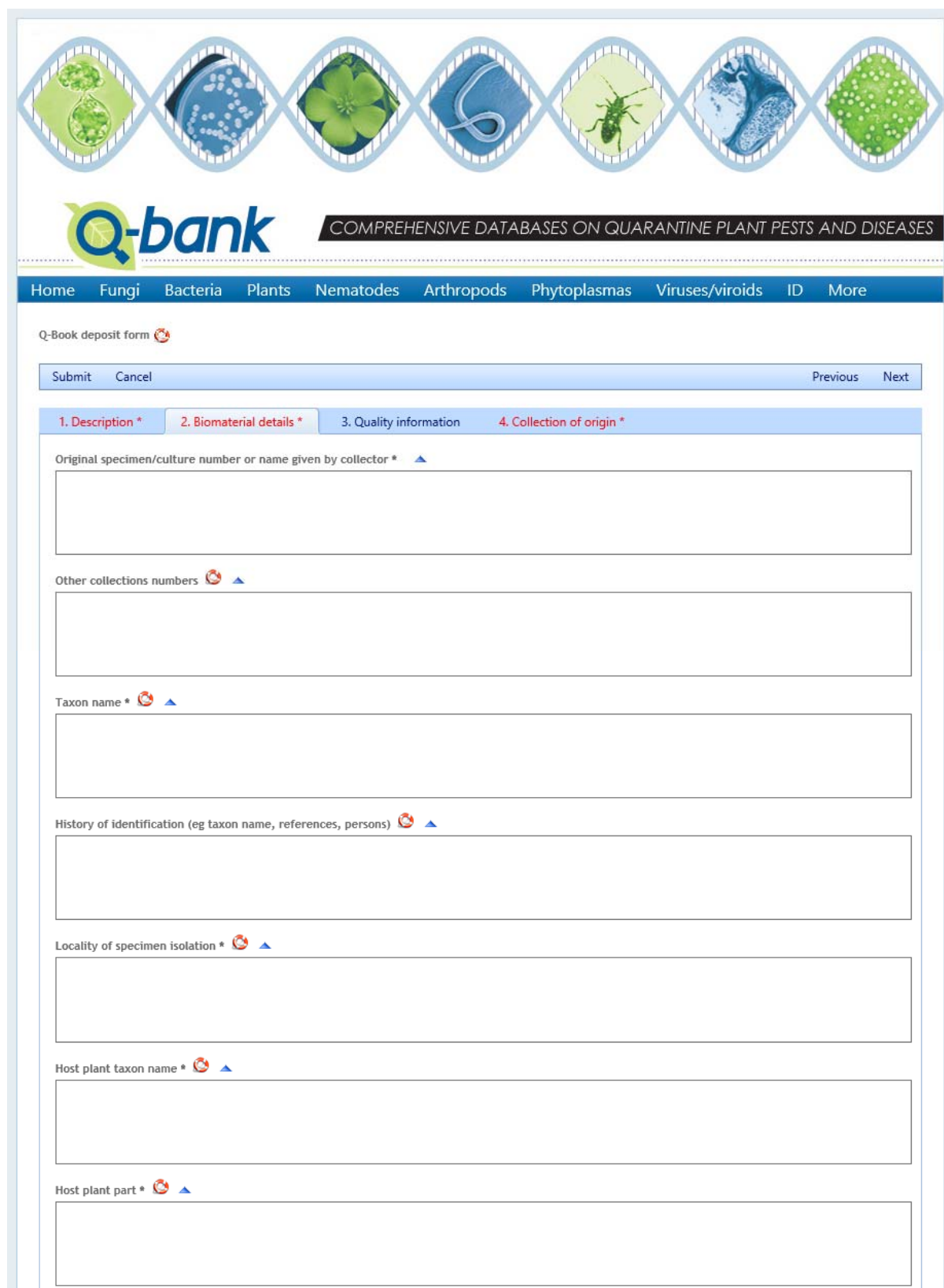
Submit Cancel Previous Next

1. Description * 2. Biomaterial details * 3. Quality information 4. Collection of origin *

Material unique name: *

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Figure. 3b. Deposit form Q-Book



The image shows a web-based deposit form for Q-Book. At the top, there is a decorative banner with seven diamond-shaped icons containing images of various organisms: a green microorganism, a blue microorganism, a green flower, a blue nematode, a green beetle, a blue virus, and a green microorganism. Below the banner is the Q-bank logo and the text "COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES". A navigation bar contains links: Home, Fungi, Bacteria, Plants, Nematodes, Arthropods, Phytoplasmas, Viruses/viroids, ID, and More. The main heading is "Q-Book deposit form". Below this is a "Submit" button and a "Cancel" button. To the right of these buttons are "Previous" and "Next" buttons. The form is divided into four tabs: "1. Description *", "2. Biomaterial details *", "3. Quality information", and "4. Collection of origin *". The "1. Description *" tab is active. It contains several text input fields with labels and icons: "Original specimen/culture number or name given by collector *", "Other collections numbers", "Taxon name *", "History of identification (eg taxon name, references, persons)", "Locality of specimen isolation *", "Host plant taxon name *", and "Host plant part *". Each field has a red circular icon with a white 'X' and a blue upward-pointing triangle icon.

Q-Book deposit form

Submit Cancel Previous Next

1. Description * 2. Biomaterial details * 3. Quality information 4. Collection of origin *

Original specimen/culture number or name given by collector *

Other collections numbers

Taxon name *

History of identification (eg taxon name, references, persons)

Locality of specimen isolation *

Host plant taxon name *

Host plant part *

Figure. 3c. Deposit form Q-Book



The image shows a screenshot of the Q-Book deposit form. At the top, there is a decorative banner with a DNA double helix structure containing various biological icons: a green cell, blue bacteria, a green flower, a blue nematode, a green beetle, a blue virus, and a green plant. Below the banner is the 'Q-bank' logo and the text 'COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES'. A navigation bar contains links: Home, Fungi, Bacteria, Plants, Nematodes, Arthropods, Phytoplasmas, Viruses/viroids, ID, and More. The main heading is 'Q-Book deposit form' with a small icon. Below this is a bar with 'Submit' and 'Cancel' buttons on the left, and 'Previous' and 'Next' buttons on the right. The form is divided into four tabs: '1. Description *', '2. Biomaterial details *', '3. Quality information', and '4. Collection of origin *'. The '1. Description *' tab is active. It contains four date input fields, each with a small upward arrow icon and a text prompt: 'Date of last viability test', 'Date of last purity test', 'Date of last pathogenicity test', and 'date of the last identification'. Each prompt is followed by the text 'Expected format is month/day/year, e.g. 09/11/2015'. At the bottom of the form, there is a footer with copyright information: 'Database Copyright © 2015 Q-Bank main', 'Software Copyright © 1999-2015 BioAware SA/NV. - Release: 2014/05/24', and 'Powered by BioloMICS Net'.

Q-Book deposit form

Submit Cancel Previous Next

1. Description * 2. Biomaterial details * 3. Quality information 4. Collection of origin *

Date of last viability test ▲

Expected format is month/day/year, e.g. 09/11/2015

Date of last purity test ▲

Expected format is month/day/year, e.g. 09/11/2015

Date of last pathogenicity test ▲

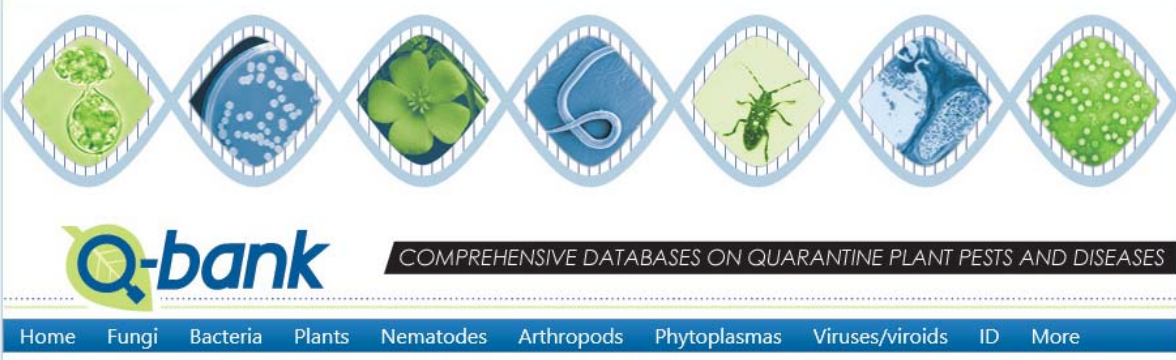
Expected format is month/day/year, e.g. 09/11/2015

date of the last identification ▲


Expected format is month/day/year, e.g. 09/11/2015

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Figure. 3d. Deposit form Q-Book





The header features a decorative banner with seven diamond-shaped icons containing images of various organisms: a green microorganism, blue bacteria, a green flower, a blue nematode, a green insect, a blue virus, and a green microorganism. Below this is the 'Q-bank' logo and the text 'COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES'. A navigation bar contains links: Home, Fungi, Bacteria, Plants, Nematodes, Arthropods, Phytoplasmas, Viruses/viroids, ID, and More.

Q-Book deposit form 

Submit Cancel Previous Next



1. Description * 2. Biomaterial details * 3. Quality information 4. Collection of origin *

Name of original collection * 

URL of original collection 

Name:

Url:

Contact details for responsible person *  

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Figure. 4. Batch deposit form Q-Book

	Original specimen/culture number or name given by collector	Other collection numbers	Type of organism	Taxon name	History of identification (eg taxon name, references, path)	Species type	Pathovar type	Country of origin of specimen
Example record ->	CBS 100168	CBS 100168 + PS 94/138	Fungi	<i>Boeremia exigua</i> var. <i>populi</i>	<i>Boeremia exigua</i> var. <i>populi</i> , Buisson-Graesslin, 1932	No	No	Netherlands
Enter your records here ->	Fields (columns) marked in red are mandatory fields and must be filled. If not, the record will not be imported in Q-Book.							
Enter your records here ->								
Enter your records here ->								
Enter your records here ->								
Enter your records here ->								
Enter your records here ->								
Enter your records here ->								
Enter your records here ->								
Enter your records here ->								
Enter your records here ->								


Fields (columns) marked in red are mandatory fields and must be filled. If not, the record will not be imported in Q-Book.

For some fields a controlled list of values is available and must be used.

When finished entering data, please send the record to the Virus Bank at v.bank@viro.knaw.nl

Manual data entry can also be done directly from the Q-Book website at <http://www.q-book.knaw.nl/submitQbook.aspx?Tab=QBookDepositForm>

Figure. 5a. Q-Repositories search



Q-bank COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES

Home Fungi Bacteria Plants Nematodes Arthropods Phytoplasmas Viruses/viroids ID More

Search on : Q-Repositories

Add condition Match on : All conditions Reset base condition(s) Switch to: Advanced Search

Search conditions (click to collapse)

☐ Description (C_1) Contains

☐ Main website (C_2) Contains


☐ Country of origin (C_3) Contains

☐ Any text field (C_4) Contains

List Export data Page 1 114 Items in 6 Page(s) Page: 20 Sorting information View mode

<input type="checkbox"/>		Name	Description	Main website	Country of origin
<input type="checkbox"/>		PlantNet New South Wales Flora	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.	Main website	Australia
<input type="checkbox"/>		AusGrass2 Grasses of Australia	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).	Main website	Australia

Figure. 5b. Q-Repositories details



Q-bank COMPREHENSIVE DATABASES ON QUARANTINE PLANT PESTS AND DISEASES

Home Fungi Bacteria Plants Nematodes Arthropods Phytoplasmas Viruses/viroids ID More

Search on : Q-Repositories

Add condition Match on : All conditions Reset base condition(s) Switch to: Advanced Search Search

Search conditions (click to collapse)

Importance level (A important - D least important) (C_5) = A


Description (C_1) Contains

Main website (C_2) Contains

Country of origin (C_3) Contains

Any text field (C_4) Contains

Export data

 PlantNet New South Wales Flora Show empty fields ☐

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.
Main website :	Main website
Search :	Search page
Identification :	Identification page
Classification :	Classification page
Country of origin :	Australia
Country coverage :	Australia
Importance level (A important - D least important) :	A

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