

CABI Training Materials
Aquaculture Compendium (AC)
User Guide

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Introduction



The Aquaculture Compendium (AC) is an encyclopaedic, multimedia tool that brings together a wide range of different types of science-based information to support sound decision-making in aquaculture and aquatic resource management worldwide. It is comprised of information sourced from experts, edited and compiled by an independent scientific organization, and resourced by a diverse international Development Consortium. Subject coverage includes of aquatic animal and plant production, natural resources and environment, biodiversity, trade, food security and safety, poverty alleviation, livelihoods and much more. The following resource types are available on the Aquaculture compendium:

Abstracts records: Indexed records from the CAB Direct database relating to the subject of environmental science

Full text articles: Links to the complete scientific record for scholarly articles hosted on the CAB Direct database

Datasheets: Compiled by experts, datasheets provide a detailed global summary on aquaculture species, their associated pest and diseases, aquatic ecosystems, aquaculture production systems and industry practical case studies.

Library: The Library documents include original texts compiled by experts for the compendium across a range of topics including food products, husbandry, production, breeding and nutrition of food animals. It also includes a substantial collection of book chapters and electronic resources previously published by ACIAR, CABI, FAO, ILRI, OIE and others

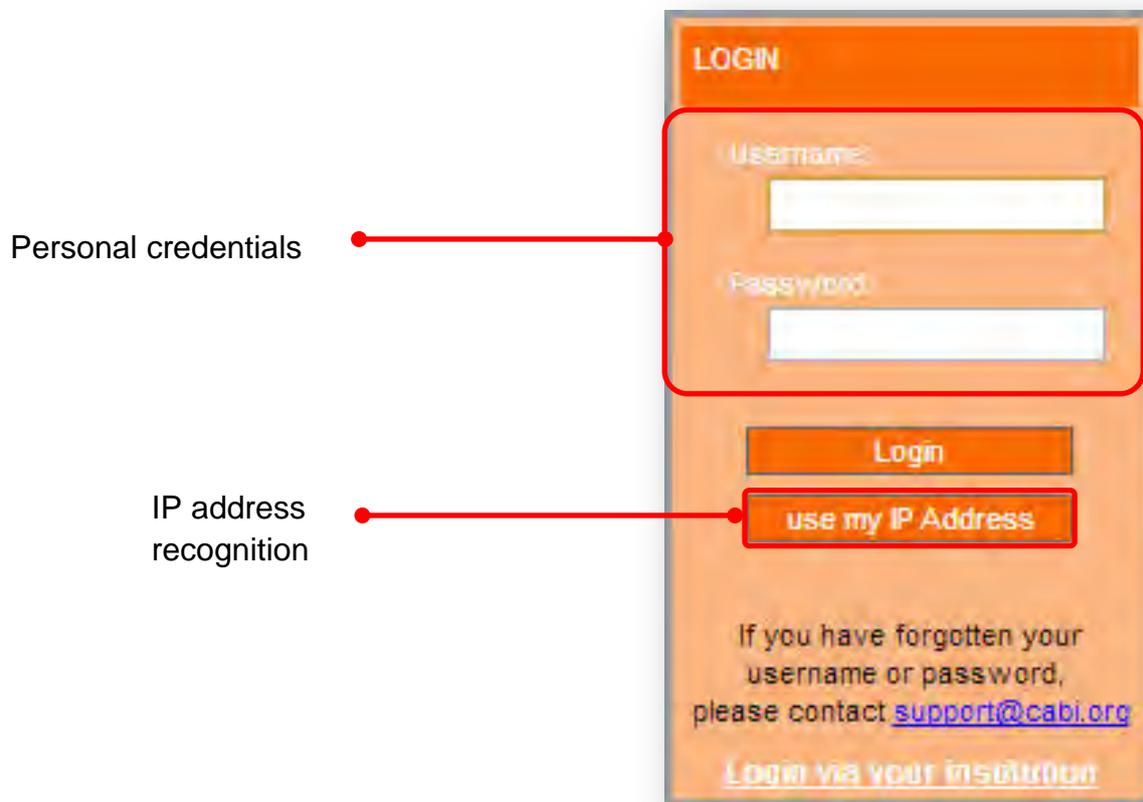
Glossary: Includes terminology and definitions across the English, French, German and Spanish languages. 30,000 definitions from Balliere's Comprehensive Veterinary Dictionary (3rd Edition)

The following guide has been designed for all users of the Aquaculture compendium to highlight various features available and enable our customers to easily navigate the interface. It will also introduce various search techniques for new users of online databases and explain various strategies that can be used when searching to return the most relevant results.

Accessing the Compendium

The Aquaculture Compendium is a web-based interface. To access the database visit www.cabi.org/aquaculture

There are two ways to login to the database:



By personal credentials:

If you requested access to the database by a username and password please enter this in to the login box situated in the top left hand corner of the webpage.

By IP Address:

If your institution has a subscription to the database and you are accessing through your institutions network, the database will recognise your IP address as a registered user and automatically log you on to the database.

If you aren't automatically recognised click the  button.

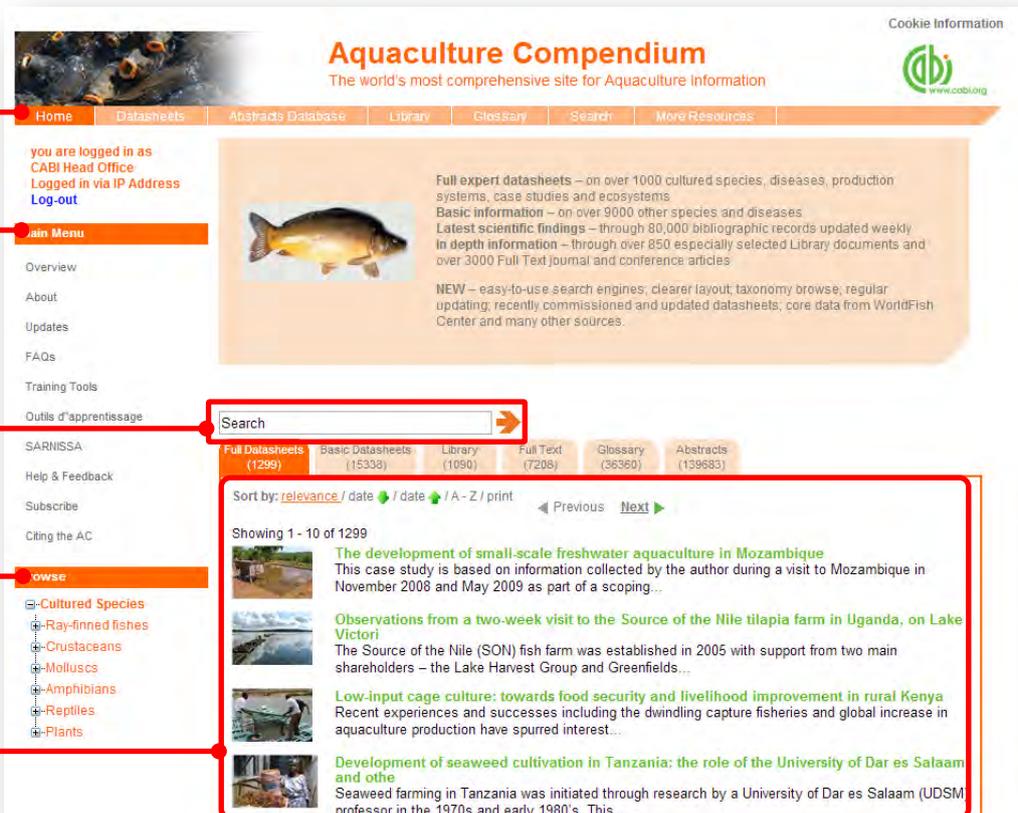
Troubleshooting

If you are having access problems to the database please contact our support team on cabi.support@marston.co.uk

Navigating the interface

The Aquaculture Compendium has been designed to enable quick and comprehensive content searches.

Below shows an image of the Aquaculture compendium homepage and the various features displayed.



The screenshot shows the Aquaculture Compendium homepage with several navigation features highlighted by red lines and labels:

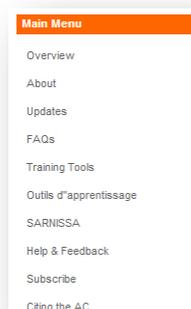
- Top bar menu:** Located at the top of the page, containing links for Home, Datasheets, Abstracts Database, Library, Glossary, Search, and More Resources.
- Main menu:** A vertical menu on the left side, including links for Overview, About, Updates, FAQs, Training Tools, and Outils d'apprentissage.
- Quick search box:** A search input field with a magnifying glass icon, located below the main menu.
- Browse functions:** A vertical list of categories on the left side, including Cultured Species, Ray-finned fishes, Crustaceans, Molluscs, Amphibians, Reptiles, and Plants.
- Results box:** A search results area on the right side, showing a list of articles with titles and brief descriptions.

Top Bar Menu

The top bar menu provides access to both predefined pages for specific content contained in the database and links to CABI related products.

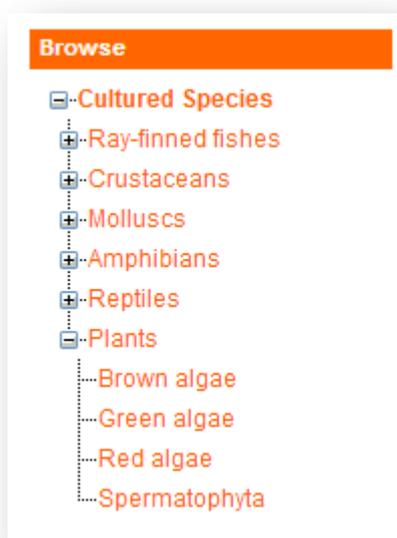
Main Menu

The Main Menu options allow users to access the support and feedback aspects of the site. These include:



<i>Overview:</i>	This includes product statistics, unique features, resource types and subject coverage of the Aquaculture Compendium
<i>About:</i>	Find out about content contributors, the Aquaculture Compendium editorial team and information on our other compendia products
<i>Updates:</i>	Provides a list of case studies produced from the EU SARNISSA project.
<i>FAQ's:</i>	A list of Frequently Asked Questions for product features, usability and development
<i>Training tools:</i>	A link to all our training resources relating to the Aquaculture Compendium platform
<i>Feedback:</i>	Contact details for help and feedback queries
<i>Subscribe:</i>	An email options for a trial request for unsubscribed visitors
<i>Citing the Compendium:</i>	Instructions for researchers wishing to cite resources from the Aquaculture Compendium platform

Browse functions



The browse menu provides an expandable list of organism types based on taxonomy. Simply expand the subjects using the  icon and select a taxonomic group from the list by clicking on the link. This will return a list of species for that taxonomic group.

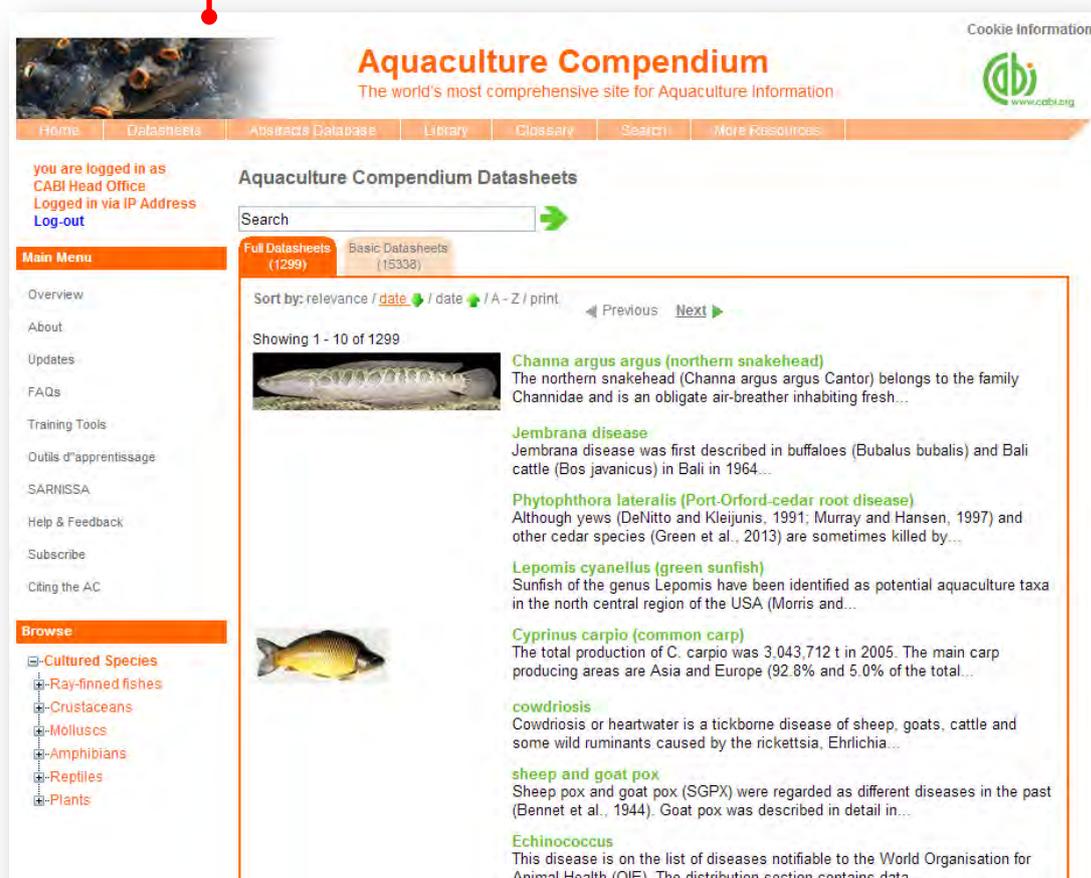
Content pages

As mentioned previously the top bar menu provides access to predefined pages for specific content contained in the database and links to CABI related products and related sites. Below is an explanation of each type of database page displayed in the top bar menu.



Datasheets

The datasheets tab in the top bar menu provides a link to the datasheets page as shown below. This provides a single page where users can conduct searches limited to datasheets only as shown below. Please note the results will be returned on two tabs; full datasheets and basic datasheets.

Aquaculture Compendium
The world's most comprehensive site for Aquaculture Information

you are logged in as
CABI Head Office
Logged in via IP Address
[Log-out](#)

Main Menu

- Overview
- About
- Updates
- FAQs
- Training Tools
- Outils d'apprentissage
- SARNISSA
- Help & Feedback
- Subscribe
- Citing the AC

Browse

- Cultured Species
 - Ray-finned fishes
 - Crustaceans
 - Molluscs
 - Amphibians
 - Reptiles
 - Plants

Aquaculture Compendium Datasheets

Search

Full Datasheets (1299) | Basic Datasheets (15338)

Sort by: relevance / [date](#) / [/ date](#) / A - Z / print

Showing 1 - 10 of 1299

 **Channa argus argus (northern snakehead)**
The northern snakehead (*Channa argus argus* Cantor) belongs to the family Channidae and is an obligate air-breather inhabiting fresh...

Jembrana disease
Jembrana disease was first described in buffaloes (*Bubalus bubalis*) and Bali cattle (*Bos javanicus*) in Bali in 1964...

Phytophthora lateralis (Port-Orford-cedar root disease)
Although yews (DeNitto and Kleijunis, 1991; Murray and Hansen, 1997) and other cedar species (Green et al., 2013) are sometimes killed by...

Lepomis cyanellus (green sunfish)
Sunfish of the genus *Lepomis* have been identified as potential aquaculture taxa in the north central region of the USA (Morris and...

Cyprinus carpio (common carp)
The total production of *C. carpio* was 3,043,712 t in 2005. The main carp producing areas are Asia and Europe (92.8% and 5.0% of the total...

cowdriosis
Cowdriosis or heartwater is a tickborne disease of sheep, goats, cattle and some wild ruminants caused by the rickettsia, *Ehrlichia*...

sheep and goat pox
Sheep pox and goat pox (SGPX) were regarded as different diseases in the past (Bennet et al., 1944). Goat pox was described in detail in...

Echinococcus
This disease is on the list of diseases notifiable to the World Organisation for Animal Health (OIE). The distribution section contains data...

Datasheets provide key, concise information on a range of topics including diseases, pathogens, vectors, transmission pathway and cultured aquatics species. They are subject specific encyclopaedic reference materials commissioned by CABI and offer problem solving resources. There are two categories of datasheets available on the Aquaculture Compendium:

Full Datasheets: Written by a range of chosen subject specialists from over 50 countries. After production they are edited and sent to additional experts for peer review or updating as required.

Basic datasheets: Contain summary information in tabular format. They have been compiled mainly by data mining various sources (CAB ABSTRACTS and selected consultant databases). The content has not been manually selected by experts and should therefore be treated with caution. User should consult the original sources before use or referencing. Country datasheets are treated as basic datasheets.

Datasheets are subject specific and the table on the next page shows which types of datasheets are available in the Aquaculture Compendium with an outline of the topics covered in each. These topics are displayed in pages which are viewable in a tabular format at the top of the page for easy referral. All datasheets include mandatory pages additional to the topic pages that are specific for each datasheet type which includes a cover page with datasheet summary and highlighted information, an image bank page (if available), a references page (for full datasheets only) and a report page.

The table also displays the search string that can be used to return only the specific type of datasheets in your results. Please note these search strings are case sensitive and must be searched in quotation marks.

For example, conducting a search by typing “**Datasheet Type(s): Animal Disease**” in to the search box will only return Animal Disease datasheets in the results display box.

Datasheet type	Description	Topic coverage	Search string to limit to datasheet
Animal Diseases:	Datasheet providing information covering approximately 300 infectious diseases. Includes lists for pathogens and other factors affecting the health of pigs, poultry and ruminants.	<ul style="list-style-type: none"> • Distribution data & map • Signs & Pathology • Management • Epidemiology & Impact 	<input animal="" data-bbox="1563 389 2063 427" datasheet="" disease\""="" type="text" type(s):="" value="\"/> 
Pathogen:	Datasheets for different pathogens that cause animal diseases.	<ul style="list-style-type: none"> • Identify • Biology 	<input data-bbox="1563 523 2063 561" datasheet="" pathogen\""="" type="text" type(s):="" value="\"/> 
Arthropod	Datasheets for further information on known arthropods that cause diseases in animals	<ul style="list-style-type: none"> • Identity • Signs & Pathology 	<input arthropod\""="" data-bbox="1563 603 2063 641" datasheet="" type="text" type(s):="" value="\"/> 
Vector of Animal disease	Datasheet on the vectors that are known to introduce a disease.	<ul style="list-style-type: none"> • Identity • Distribution 	<input animal="" data-bbox="1563 683 2063 721" datasheet="" disease\""="" of="" type="text" type(s):="" value="\" vector=""/> 
Cultured Aquatic Species:	Datasheets providing detailed information on the biology & taxonomy of aquatic species as well as information on husbandry, production and health	<ul style="list-style-type: none"> • Identity • Distribution data & map • Biology • Management & Welfare 	<input aquatic="" cultured="" data-bbox="1563 807 2063 845" datasheet="" species\""="" type="text" type(s):="" value="\"/> 
Case study	Datasheets helping link theory and practice in aquaculture and aquatic resource management across extension, research and industry.	<ul style="list-style-type: none"> • Case study • External links 	<input case="" data-bbox="1563 954 2063 992" datasheet="" study\""="" type="text" type(s):="" value="\"/> 
Growout system	Datasheets providing information on growout production systems	<ul style="list-style-type: none"> • Overview • Management & Design • Economics & Impact 	<input data-bbox="1563 1098 2063 1136" datasheet="" growout="" system\""="" type="text" type(s):="" value="\"/> 
Ecosystems	Datasheets providing detailed information on ecosystems and the relation to aquaculture management	<ul style="list-style-type: none"> • Overview • Ecosystem & Aquaculture 	<input data-bbox="1563 1219 2063 1257" datasheet="" ecosystems\""="" type="text" type(s):="" value="\"/> 
Key Topic	Datasheets providing information on key topics involved in aquaculture e.g. government policies, production techniques	<ul style="list-style-type: none"> • Identity • Food Quality • Food Safety 	<input data-bbox="1563 1343 2063 1382" datasheet="" key="" topic\""="" type="text" type(s):="" value="\"/> 
Country:	Datasheets covering over 490 countries and geographic regions.	<ul style="list-style-type: none"> • List of Animal Diseases 	<input country\""="" data-bbox="1563 1455 2063 1493" datasheet="" type="text" type(s):="" value="\"/> 

Cover page

The cover tab of the datasheet gives an overview and summary of the key scientific information relating to the subject of the datasheet. For example, below shows the cover image for Monogenean infections which displays its preferred scientific name, a list of associated pathogens, the animals affected and an overview/summary of the disease. The cover page also notes the date for the last amendments or modifications to the datasheet.

The screenshot shows the Aquaculture Compendium website interface. The main content area is titled 'Monogenean infections of fish' and includes the following sections:

- Last modified:** 23 March 2011
- Datasheet Type(s):** Animal Disease
- Preferred Scientific Name:** Monogenean infections of fish
- Causative Agent/s:** Acolpenteron ureteroecetes, Allobivagina, Ancylo-discoides vistulensis
- Species Affected:** Acipenser nudi-ventris (fringe-barbel sturgeon), Acipenser stellatus (starry sturgeon), Aetobatus narinari, Anguilla anguilla (European eel), Anguilla bicolor bicolor (indonesian shortfin eel)

Navigation tabs include: Home, Datasheets, Abstracts Database, Library, Glossary, Search, More Resources. The 'Cover' tab is selected. A 'Back button' is visible in the top right corner. A 'Pages tab' is indicated on the left. A 'Summary of key scientific information' is indicated on the left. A 'Link to image bank' is indicated on the right. A 'Link to distribution map' is indicated on the right.

Clicking on the cover image will direct you to the image bank page while clicking on the distribution map will take you to an expanded and interactive global map.

Images bank page

Clicking on the image tab will take you to the image bank for the datasheet. Here will display all the related pictures for the subject of the datasheet. Click on the image to view the full sized image and the image metadata. Once opened, pictures can be copied and pasted into other documents.

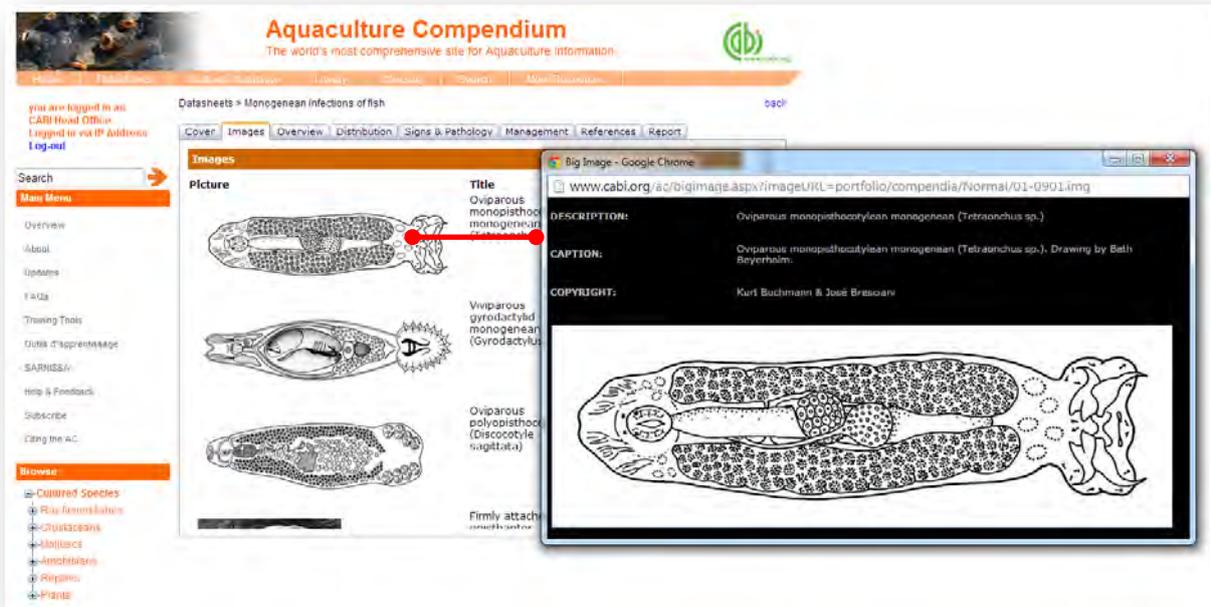


Image copyrights

Picture copyrights are not necessarily owned by CABI. Use of illustrations, along with other materials in the Compendium is covered in the 'Fair Use' statement. This allows use of materials in the Compendium in the making of documents tailored by the user, for example, in reports and teaching materials, so long as the reuse of the materials is not for financial gain. The copyright holder should be contacted for permission to use pictures.

Distribution maps

The distribution maps give detailed geographic data on the distribution of the datasheet subject. In full datasheets, geographic distributions have been researched by individual contributors or were obtained from information provided by OIE (World Organisation for Animal Health). Country records are based on distribution records found in academic literature.

The map below shows the distribution of reported cases of fish with Monogenean infections. Each distribution point/dot displayed on the map represents the location of occurrence according to an academic record. These distribution points are colour coded to indicate the nature of the occurrence and the key for this is displayed under the map image. By hovering over an individual point a statement of occurrence is displayed which indicates the country where the subject of the datasheet is present and the status of the distribution.

NOTE: It is important to note that the absence of a record on the map does NOT necessarily mean the disease/breed is absent from that country or region, but that information for those areas is not available

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Home Datasheets Abstracts Database Library Glossary Search More Resources

you are logged in as CABI Head Office
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Datasheets > Monogenean infections of fish [back](#)

Search [Main Menu](#)

Overview
About
Updates
FAQs
Training Tools
Outils d'apprentissage
SARNISSA
Help & Feedback
Subscribe
Citing the AC

Browse

- Cultured Species
- Ray-finned fishes
- Crustaceans
- Molluscs
- Amphibians
- Reptiles
- Plants

Cover Images Overview Distribution Signs & Pathology Management References Report

Back...

● = Present, no further details ● = Widespread ● = Localised
 ● = Confined and subject to quarantine ● = Occasional or few reports
 ● = Evidence of pathogen ● = Last reported... ● = Presence unconfirmed
 ● = See regional map for distribution within the country

Brazil: Present, no further details
Santos et al., 2000

Clicking on the distribution point will display the reference from which the distribution data was sourced as shown below. These references can be printed by clicking the print button in the top right hand corner.

Santos CP, Buchmann K, Gibson DJ, 2000. Pseudorhabdosynochus spp. (Monogenea: Diplectanidae) from the gills of Epinephelus spp. in Brazilian waters. Systematic Parasitology, 45(2):145-153. [Print](#)

By clicking on a continent section in the map, a regional level map will be displayed as shown below. This will show more localised distribution data for a global region.

The screenshot shows the Aquaculture Compendium website. At the top, the title 'Aquaculture Compendium' is displayed in orange, with the tagline 'The world's most comprehensive site for Aquaculture Information' below it. The CABI logo is in the top right corner. A navigation bar contains links for Home, Datasheets, Abstracts Database, Library, Glossary, Search, and More Resources. On the left, a sidebar shows the user is logged in as 'CABI Head Office' and provides a search bar and a main menu with options like Overview, About, Updates, FAQs, Training Tools, etc. The main content area shows a breadcrumb trail 'Datasheets > Monogenean infections of fish' and a tabbed interface with 'Cover', 'Images', 'Overview', 'Distribution', 'Signs & Pathology', 'Management', 'References', and 'Report'. The 'Distribution' tab is active, displaying a map of Europe with several black dots representing the geographic distribution of the infection. A 'Back...' link is visible in the top right of the map area.

The distribution maps should be examined in conjunction with the Distribution table and text which provides deeper analysis of the distribution data and sources. This is available by clicking on the [Distribution](#) tab found at the top tabular menu of the datasheet in question.

Datasheet report

The report function allows all components of a datasheet (texts, tables, maps and pictures) to be collated and presented as a single HTML document for printing or cutting and pasting in to other documents. This can provide users with useful printed reference materials that can be used in presentations, as study support materials or practical field reference notes. This is especially useful for users in countries or regions with limited internet access.

To access the report tool click on the [Report](#) tab in the top tabular menu of the datasheet. This will display the report page as shown below and allows the user to select specific information sections to create bespoke reports. The left hand column shows the title information sections available and displays the title and type of section (T = text, L = List, and M = Map). The right hand column displays the information sections you have selected to be included in your report. To include an information section in your report select the section of interest from the left hand column and click the [→](#) button to move it to the right hand column. To remove a section from your report simply select the section and click the [←](#) to remove it from your report column. The [↑](#) and [↓](#) buttons can be used to change the order of information sections in your report.

The screenshot shows the 'Aquaculture Compendium' website interface. At the top, there is a navigation bar with links for Home, Datasheets, Abstracts Database, Library, Glossary, Search, and More Resources. Below this, a user is logged in as 'CABI Head Office'. The main content area is titled 'Datasheets > Monogenean infections of fish'. A horizontal menu at the top of the content area includes 'Cover', 'Images', 'Overview', 'Distribution', 'Signs & Pathology', 'Management', 'References', and 'Report'. The 'Report' tab is active, showing a list of sections to be included in the report. The sections are: L: Identity, L: Pathogen/s, T: Overview, L: Distribution Table, L: Distribution Table Details, L: Host Animals, L: List of Symptoms/Signs, T: Pathology, L: Disease Treatment Table, T: Disease Treatment, Prevention and C, L: References, L: Images, M: World, M: Africa, M: Asia, M: Europe, M: Pacific, M: North America, M: Central America, and M: South America. A key at the bottom indicates: KEY: T = Text Section, M = Map, L = List. A 'Generate Report' button is located at the bottom right. Red annotations highlight specific features: 'Include/remove individual sections' points to the search bar; 'Include/remove multiple sections' points to the 'All Sections' and 'All Maps' buttons; 'Change section order' points to the up/down arrows next to the 'Distribution Table' section.

There are options to add or remove multiple groups of maps and information sections using the buttons as indicated above. Once you have selected all the sections you want to be included in you report click the [Generate Report](#) button found at the bottom right of the page.

The image below shows you the report that has been generated which is displayed as a single HTML document. The entire report can be printed using your web browser print options or by selecting "print" from the right mouse click menu. Sections of the report can also be copied across to other documents using standard copy and paste functions in the right mouse click menu. The blue highlighted text menu displayed horizontally across the top of the report provides a contents menu for the report. These are anchored links so by clicking on the section you will be directed to the exact location of that section on the HTML page.

Aquaculture Compendium

Selected sections for: **Monogenean infections of fish**
[Identity](#) [Overview](#) [Pathogenesis](#) [Distribution Table](#) [Distribution map Europe](#)

Datasheet Type(s): Animal Disease

Identity

Preferred Scientific Name
Monogenean infections of fish

Overview

Monogeneans are flatworms (Platyhelminthes) with representatives in freshwater, brackish and marine habitats. The vast majority of species are ectoparasitic and they without intermediate hosts. Although a number of species parasitize cephalopods, amphibians, reptiles and mammals, most of these platyhelminths are fish parasites with. Thus, it is generally assumed that many fish hosts (agnathans, cartilaginous and bony fish) harbour at least one unique monogenean species and this presumption can of species present. Since there are more than 25,000 known teleost species, it is tempting to suggest that the total number of monogenean species exceeds this number of species have been described (Whittington, 1998). Furthermore, it was recently suggested (Bakke et al., 2002) that there are about 20,000 species in the genus *Gyrodactylus* expansion of our knowledge about the group of platyhelminths was further stressed by Lin (1998), who stated that only 6% of the South-East Asian monogenean species.

The majority of the monogeneans are on external surfaces of fish (skin, fins, gills, mouth cavity, nostrils) but a few species have adopted an endoparasitic life. Thus, *Acobacterior antrocoeces* in labrids, the foregut and stomach (e.g. *Enterogyrus* sp. in *Pomacentrus paru* (Cone et al., 1987)) and even the cloaca (*Calcosyne kneri* a microhabitat for a few species. In addition, the gill-parasitic amphidelmids have juvenile stages in the blood of electric rays (Llewellyn, 1960). However, even reliable gills, the fins or the skin comprise subcompartments which serve as microhabitats. Monogeneans tend to select these rather specific microhabitats on their fish hosts (1998).

The main character of the group is the opisthaptor (main adhesive apparatus in the hind part of the worm). This organ of attachment is normally equipped with sclerotized suckers). Also the fore part of the worm has attaching capacities (adhesive pads, cephalic openings) and is referred to as the proaptor. (Fig. Oviparous monopisthocotyle sp.); Fig. Viviparous gyrodactylid monogenean (*Gyrodactylus* sp.); Fig. Oviparous polyopisthocotylean (*Discocotyle sagittata*).

Monogeneans are an evolutionarily old animal group that is believed to have evolved from ancestral ecto-commensal turbellarians several hundred millions of years ago. These platyhelminths have demonstrated an impressive adaptability to changing environmental and host conditions. Thus, the high number of species is probably not only between host and parasite but may also result from host switching (Bakke et al., 2002; Zlatar and Lumma, 2002). This is especially true if the gyrodactylids, a group fish to fish or via a transient residence on the substrate before infecting a range of hosts that reside in a specific habitat. Thus, a wide range of fish species may be infected these exhibit some degree of susceptibility, which provides the basis for a new parasite-host system.

Two quite different dominant lineages have been suggested for the monogeneans, the monopathocotyleans and the polyopisthocotyleans. An alternative nomenclature and ultrastructural features defines the subclass Polyopisthocotylea (equivalent to Monopathocotylea, with 18 families) and a clade corresponding to Polyopisthocotylea co. Polystomatinea (two families) and Oligonchinea (20 families) (Boeger and Kritsky, 1997). These two main groups differ markedly in morphology, anatomy, nutrition, pH and ultrastructural studies have even suggested that Monogenea comprising these two groups is not a monophyletic group (Justin, 1998). The differences in anatomy

Lists and intuitive linking

One of the aims of the Compendium is not to be just a flat, encyclopaedic reference, but to offer dynamic linking to influence problem solving and information gathering.

Different datasheets have been designed to accumulate useful lists of related information that are specific to each datasheet type. Below shows a table for the relevant lists that are available for each datasheet type.

Intuitive linking has been used in the compendia to link content across different lists. Where the list contains content that has its own datasheet a link is provided which is displayed as blue underlined text. For example, the image below shows that our report on Monogenean infections includes a list of host fish that are affected by the disease. By clicking on the species [Anguilla anguilla \(European eel\)](#) we are directed to a datasheet for the species *Anguilla anguilla* (European eel).

Host Animals

Animal name	Context
Acipenser noidentris (fringebarbel sturgeon)	Wild host
Acipenser stellatus (starry sturgeon)	
Aetobatus nannan	
Anguilla anguilla (European eel)	
Anguilla bicolor bicolor (American shortfin eel)	
Anguilla japonica (Japanese eel)	
Anguilla reinhardtii	
Anguilla rostrata (American eel)	
Arapaima gigas (arapaima)	
Aristichthys nobilis (bighead carp)	
Callorhynchus milii	
Carassius auratus auratus (goldfish)	
Carcharias galapagensis	
Carcharias melanopterus	
Clarias foveolatus	
Crenimugil crenilabris	
Ctenopharyngodon idella (grass carp)	
Cyprinus carpio (common carp)	
Dicentrarchus labrax (European seabass)	
Engraulis japonicus (Japanese anchovy)	
Epinephelus niveatus	
Hemibarbus melanostris	
Hypophthalmichthys molitrix (silver carp)	

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Datasheets - [Anguilla anguilla \(European eel\)](#)

Cover | Images | Identity | Distribution | Biology | Management | Economics | References | Report

Last modified: 12 May 2011

Datasheet Type(s): Cultured Aquatic Species

Preferred Scientific Name
Anguilla anguilla

Preferred Common Name
European eel

Overview

Alongside most other species of aquatic animals produced for human consumption, the aquaculture production of the freshwater eels has shown a staggering growth since the 1980s-1990s. The production

click on the picture for further information

Distribution map

click on the map for further information

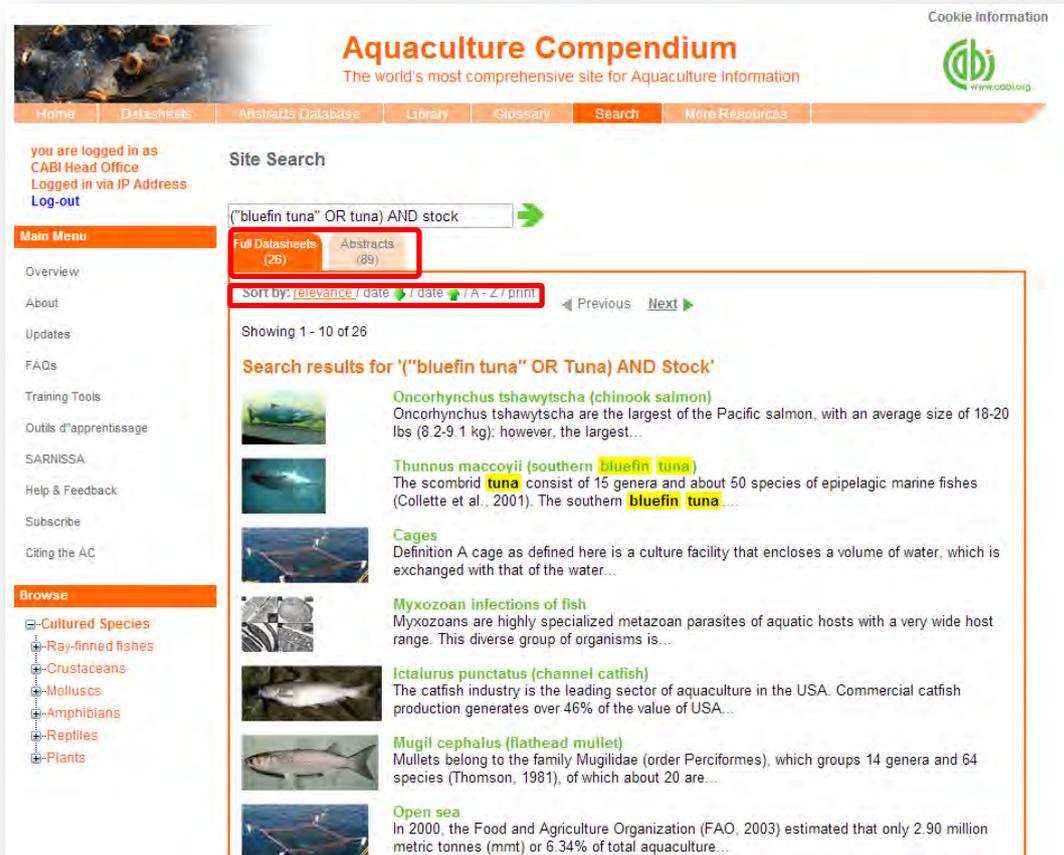
Conducting simple site searches for Abstracts and Full Text

Aquaculture Compendium offers a simple site search using a variety of basic search techniques to search content across the whole of the database. To conduct a simple search enter your search statement into the quick search box on the homepage. The table below shows the various basic search techniques and operators that can be used:

Search technique	Example	Description	Function	Reason to use
Single word search	<input type="text" value="bluefin tuna"/> →	Search databases using a single word term	Returns a broad range of results for a particular word/topic	Provides a broad overview of a scientific area of interest
Phrase searching	<input bluefin="" tuna\""="" type="text" value="\"/> →	Use quotation marks before and after a multiple word phrase	Returns results only containing the entire phrase	Narrows searching to records that only contain the whole phrase
Boolean search	<input type="text" value="bluefin tuna AND stocks"/> →	Search databases using the operators AND, OR and NOT	Performs searches on multiple concepts that provides specific keyword searching for an area of interest that can include or exclude other concepts.	Allows the user to conduct more controlled searching. Can be used to omit homophones
Parentheses	<input and="" bluefin="" or="" stocks"="" tuna)="" tuna\"="" type="text" value="(\"/> →	Searches databases using keywords, Boolean operators and parentheses.	Used for searches that contain multiple Boolean operators to define the correct search logic	Refines searches with Boolean operators further to provide limited search results
Wild cards	<input and="" bluefin="" or="" stock*"="" tuna)="" tuna\"="" type="text" value="(\"/> →	Uses the symbols * and ? in keyword search	Using the * returns results with different word stems for the root word Using the ? symbol allows users to specify unknown characters	The * allows users to broaden results to keywords with differing word stems e.g. pop* = popular, population, etc. The ? returns results using a keyword that may differ in spelling

Organising results display

The returned search results are displayed in the results box. By clicking on the various tabs from the tabular menu at the top of the results box you can browse the results by material type. The darker coloured tab indicates the type of results that are currently displayed. Note that there are 2 tabs for datasheets.



The screenshot shows the Aquaculture Compendium search results page. The search query is "bluefin tuna" OR tuna AND stock. The results are sorted by relevance. The search results list includes:

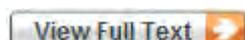
- Oncorhynchus tshawytscha (chinook salmon)**: Oncorhynchus tshawytscha are the largest of the Pacific salmon, with an average size of 18-20 lbs (8.2-9.1 kg); however, the largest...
- Thunnus maccoyii (southern bluefin tuna)**: The scombrid tuna consist of 15 genera and about 50 species of epipelagic marine fishes (Collette et al., 2001). The southern bluefin tuna...
- Cages**: Definition A cage as defined here is a culture facility that encloses a volume of water, which is exchanged with that of the water...
- Myxozoan infections of fish**: Myxozoans are highly specialized metazoan parasites of aquatic hosts with a very wide host range. This diverse group of organisms is...
- Ictalurus punctatus (channel catfish)**: The catfish industry is the leading sector of aquaculture in the USA. Commercial catfish production generates over 46% of the value of USA...
- Mugil cephalus (flathead mullet)**: Mulletts belong to the family Mugilidae (order Perciformes), which groups 14 genera and 64 species (Thomson, 1981), of which about 20 are...
- Open sea**: In 2000, the Food and Agriculture Organization (FAO, 2003) estimated that only 2.90 million metric tonnes (mmt) or 6.34% of total aquaculture...

Additionally, you can sort the display of records by their publication date, their relevancy or an alphabetical list by title. Additionally there is the option to print a list of search results for future reference. To do this click on the relevant icon [relevance](#) / [date](#) / [date](#) / [A-Z](#) / [print](#)

The display box shows an article header for each record. For datasheets, a short description is provided. For other database records the type of bibliographic information displayed in the article header may vary depending on the type of material viewed but generally will include:

- Record title
- Authors
- Author affiliation
- Journal title
- Date of publication
- Source data (i.e. journal number, page number)

If CABI hosts the full text article of the record also displayed will be the [View Full Text](#) button. Click this link through to a PDF of the full text article.



Advanced searching

Field searching

The search box for the Aquaculture Compendium also allows users to conduct advanced field searching using the index field tags. **Please note:** these techniques will return results for abstracts and full text articles only.

Field searching is a technique by which users can search for keyword terms in specific indexing fields that are used when adding a bibliographic record to CABI's database e.g. Abstract title, author. Each indexing field has an associated field tag which can be used in conjunction with search keywords to return a more precise set of results. Below is a list of the indexing fields and their associated:

Common search fields

Description	Field Tag
Article title	title
Author	author
Abstract	ab
Author affiliation	aa
Descriptor	de
Organism Descriptor	od
Geographic Locator	gl
Broad term	up
Identifier	id
Subject term	subject
Publication source	do
Publisher	publisher
CABICODE	cc
Conference	ct
Language	la
Publication type	it
Year	yr
Record number	pa
DOI	oi
ISSN	sn
ISBN	bn

Additional search fields

Description	Field Tag
Additional Authors	ad
Author Affiliation	aa
CAS Registry Numbers	ry
Conference Dates	cd
Conference Title	ct
Corporate Author	ca
Country of Publication	cp
Descriptors	de
Digital Object Identifier	oi
Document Editors	ed
Document Title	do
Email	em
English Item Title	et
Non English Item Title	ft
Geographic Location	gl
Identifiers	id
ISBN	bn
ISSN	sn
Item Type	it
Language(s) of Summary	ls
Language(s) of Text	la
Location of Publisher	lp
Main Abstract	ab
Organism Descriptors	od
Pan Number	pa
Personal Author	au
Personal Author Variants	av
Publisher	pb
CABI Product Code	sc
Up-posted Descriptors	up
Web URL	ur
Year of Publication	yr

To conduct a field search type the associated field tag (**NOTE: these must be lowercase**) into the quick search box followed by a colon. Next enter your search term/s. Field searching can also be conducted using the variety of simple search techniques outlined previously such as multiple word searches using Boolean operators. Below show some examples:

Single word search: ➔

Multiple word search: ➔

Searching with phrases: ➔

To conduct field searches using the advanced search more simply and to access other advanced features users can [access the CAB Direct platform](#).

Index Terms or “Descriptors”

If you are looking only for important papers on a particular subject, where you want a high level of relevance, you should restrict your search to one or more of the CABI indexing or Descriptor fields. Every record on the database is indexed with terms that describe all the important concepts within a paper. The index terms may be added to one of 5 different indexing fields. The indexing fields that CABI uses are:

Fields	Tags	Description	Example
Organism Descriptor	od:	The Organism Descriptor field is used for animal and plant names	od: Thunnus thynnus
Geographic Location	gl:	Geographic Location field is used for country and other geographic names	gl: Germany
Descriptor	de:	The Descriptor field is used for all the “other” terms that are neither animal, plant nor geographic	de: feeding habits
Broad Term (Up-posted Term)	up:	The broad term is used to search for more general terms of a subject as defined in CAB Thesaurus	up: behaviour
Identifier	id:	This field is used for non-controlled index terms; terms that do not appear in the CAB Thesaurus such as new species or chemicals	id: cryptochrome

Please note: When searching the organism descriptor all animals are indexed with their scientific names. However, plants are indexed with both their scientific and their common names

Super indexes

Super indexes allow users to search multiple indexes across related fields. They are useful tools for users if they are unsure which fields they need to specify when trying to conduct advanced field searching. They can be searched in the same way as other fields as the super indexes have their own field tag associated to them. Aquaculture Compendium also has three super indexes.

The first two super indexes shown in the table below are used when searching bibliographic information relating to either the article title or the article authors. The table below shows the field tag, field indexes that are searched and an example of a search.

Super index field tag	Fields searched	Example
title:	English title Foreign title	<input type="text" value="title: shrimp"/> →
author:	Personal author Author variant Additional author Document editor Corporate author	<input type="text" value="author: Letcher"/> →

The third super index called the subject index is used when searching for the indexing terms or metadata that is recorded or assigned to each resource record. The table below shows the field tag, field indexes that are searched and an example of a search.

Super index field tag	Fields searched	Example
subject:	Descriptor Geographic location Organism descriptor Identifier	<input type="text" value="subject: pollution"/> →

CABICODES

In addition to adding index terms to a record, broad concepts are also “indexed” with a classification system known as CABICODES. The CABICODES are a hierarchical list of classification codes that divide the subject coverage of the CAB ABSTRACTS database into 23 major sections. Each section then includes a series of codes that divides that subject into more specific subjects. The codes themselves are typically used to code for subjects that would be difficult to describe with keywords alone. These CABICODES shown below display all the CABICODES for Aquatic sciences and their associated topic area. For a full list of CABICODES and their topic areas visit the [CABICODE list](#).

MM000 Aquatic Sciences (General)

MM110 Fisheries

MM120 Aquaculture (Animals)

MM130 Aquaculture (Plants)

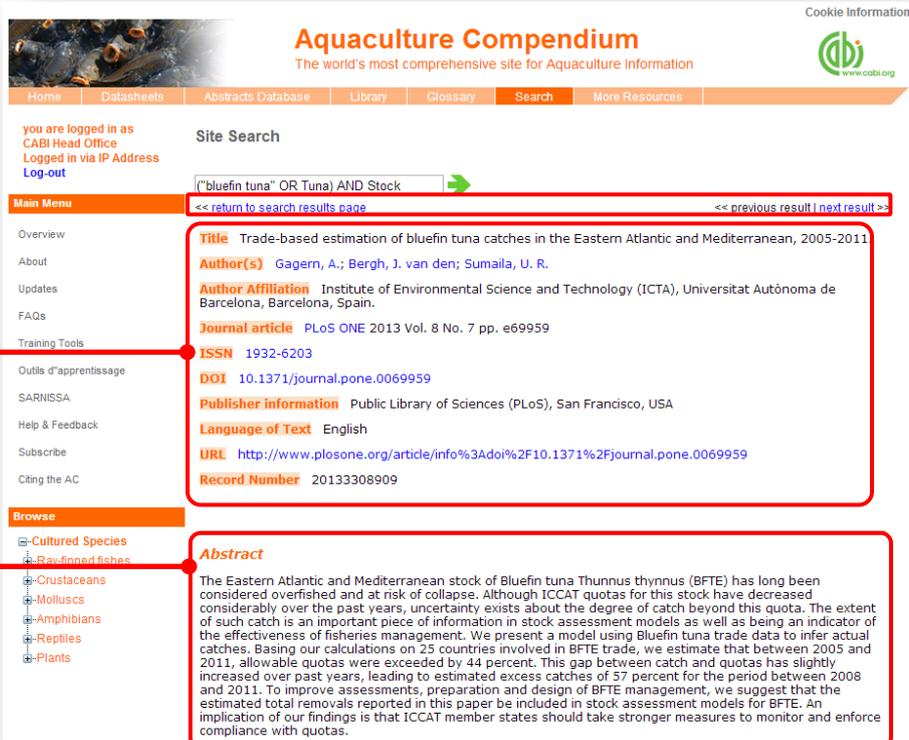
MM300 Aquatic Biology and Ecology

The CABICODES can be searched just like any other field tag. Two field tags are assigned to the CABICODE field and these are described below. Please note, as other field tags these must be entered in lowercase.

Field tag	Definition	Example
cc:	Allows users to search the index of the alphanumerical assigned code e.g. MM110	cc:MM110
cabicode:	Allows users to search both the alphanumerical assigned code index as above and the CABI code title index e.g. Apiculture	cabicode:MM110 or cabicode:Fisheries

Viewing records

To view the full details of the article record click on the green title displayed in the results box. This will direct you to the individual record page where the complete bibliographic information is listed including the full abstract summary (see example below). Again the  is also displayed on this page if the full text article is available.



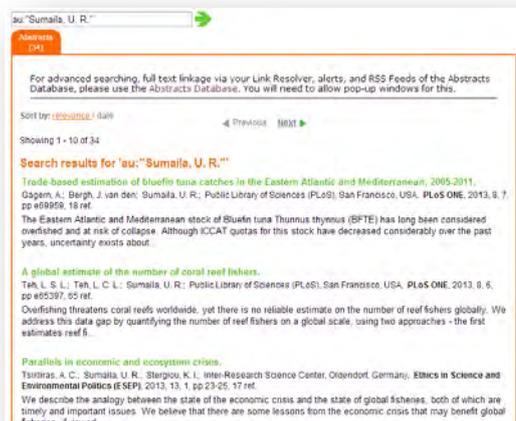
The screenshot shows the Aquaculture Compendium website interface. At the top, there is a navigation bar with links for Home, Datasheets, Abstracts Database, Library, Glossary, Search, and More Resources. A search bar contains the query "bluefin tuna" OR Tuna) AND Stock. Below the search bar, the results are displayed in a table-like format. The first result is highlighted with a red box and labeled "Bibliographic data". This result includes fields for Title, Author(s), Author Affiliation, Journal article, ISSN, DOI, Publisher information, Language of Text, URL, and Record Number. A second red box highlights the "Abstract" section of the same result, which contains a summary of the article's content. A red arrow on the right side of the page points to the "Page scrolling for records" label, indicating that the user can scroll through the list of search results.

Bibliographic data

Abstract

Page scrolling for records

As you can see from the example above some of the bibliographic information is displayed as blue linking text. For example in the Author field [Sumaila, U. R.](#) is displayed. This different colour text indicates intuitive linking so that when clicked it runs a further search for that keyword limited to its associated field. This can be useful to find more relevant content, such as articles written by the same author as shown in the example below.



The screenshot shows the search results page for the query "Sumaila, U. R.". The page displays a list of search results, with the first result highlighted. The highlighted result is titled "Trade based estimation of bluefin tuna catches in the Eastern Atlantic and Mediterranean, 2005-2011" and lists the author as "Gagern, A.; Bergh, J. van den; Sumaila, U. R.". The abstract of this article is displayed below the title. The page also shows a search bar at the top with the query "Sumaila, U. R." and a "View Full Text" button next to the first result.

Accessing CAB Direct

Subscribers to Aquaculture Compendium also have access to the CAB Direct interface for advanced functionality. Such advanced features include:

Advanced Searches: The complex search power of the CAB Direct search engine allows users to conduct complex searches and refine results by field type

Saving and combining searches: MyCABDirect allow users to save commonly used search strings for easy reference. The combine features also allows users to refine records performed across two searches.

Selecting and saving records: Mark and save records for future reference or export, print or share selections

Alerts and RSS feeds: Create automatic e-alerts or RSS feeds from your saved searches for weekly updates of the latest research

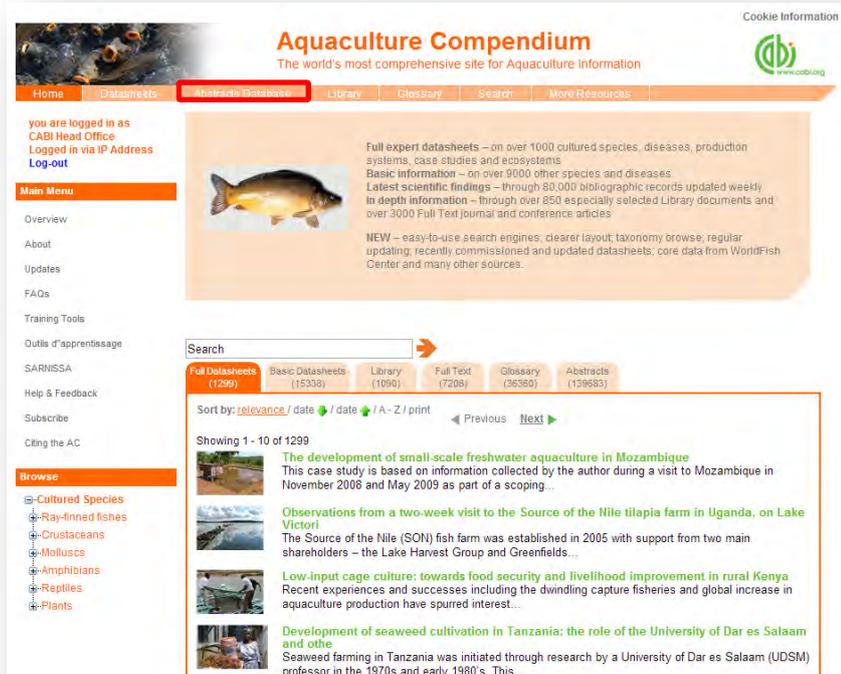
Export options: Export records to a reference management software or download as selected articles as MARC records

Integrated full text linkage: Integrate your full text holdings listed in your library catalogue via your Link Resolver

There are two ways to access the CAB Direct platform from the Environmental Impact platform. Either:

There are two ways to access the CAB Direct platform from the AC. Either:

1. Click on the  button in the top menu



Aquaculture Compendium
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Home Datasheets **Abstracts Database** Library Glossary Search More Resources

you are logged in as
CABI Head Office
Logged in via IP Address
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Main Menu

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- Outils d'apprentissage
- SARNISSA
- Help & Feedback
- Subscribe
- Citing the AC

Browse

- Cultured Species
- Ray-finned fishes
- Crustaceans
- Molluscs
- Amphibians
- Reptiles
- Plants

Search

Full Datasheets (1299) Basic Datasheets (1533) Library (1090) Full Text (7208) Glossary (3636) Abstracts (159683)

Sort by: [relevance](#) / [date](#) / [data](#) / [A - Z](#) / [print](#) Previous Next

Showing 1 - 10 of 1299

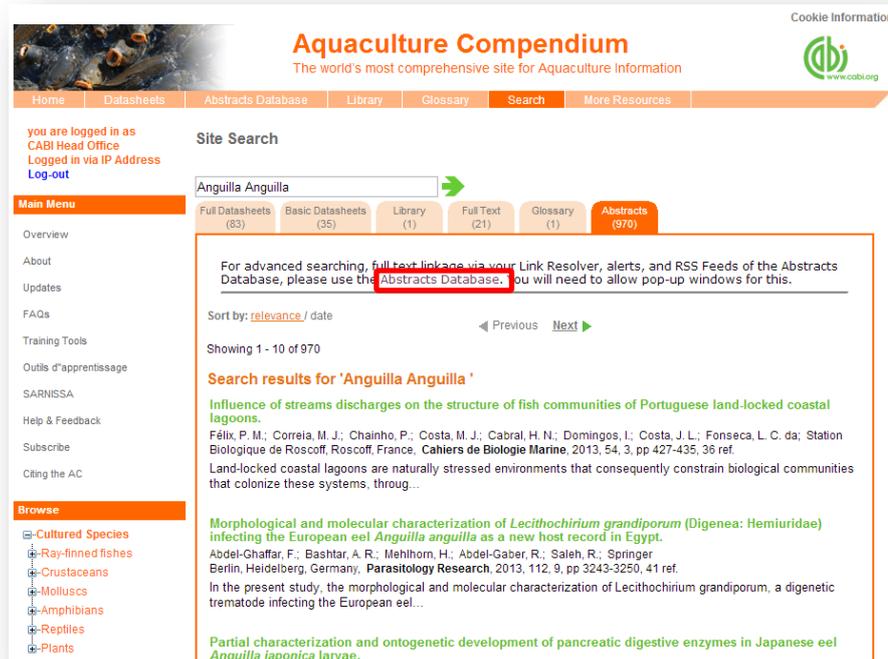
The development of small-scale freshwater aquaculture in Mozambique
This case study is based on information collected by the author during a visit to Mozambique in November 2008 and May 2009 as part of a scoping...

Observations from a two-week visit to the Source of the Nile tilapia farm in Uganda, on Lake Victori
The Source of the Nile (SON) fish farm was established in 2005 with support from two main shareholders – the Lake Harvest Group and Greenfields...

Low-input cage culture: towards food security and livelihood improvement in rural Kenya
Recent experiences and successes including the dwindling capture fisheries and global increase in aquaculture production have spurred interest...

Development of seaweed cultivation in Tanzania: the role of the University of Dar es Salaam and othe
Seaweed farming in Tanzania was initiated through research by a University of Dar es Salaam (UDS) professor in the 1970s and early 1980's. This...

2. From the Full text Abstracts tab in the result display box elect the Abstracts database link (shown below)



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Browse

- Cultured Species
- Ray-finned fishes
- Crustaceans
- Molluscs
- Amphibians
- Reptiles
- Plants

Site Search

Anguilla Anguilla

Full Datasheets (83) Basic Datasheets (35) Library (1) Full Text (21) Glossary (1) **Abstracts (970)**

For advanced searching, [full text linkage via your Link Resolver](#), alerts, and RSS Feeds of the Abstracts Database, please use the [Abstracts Database](#). You will need to allow pop-up windows for this.

Sort by: [relevance](#) / [date](#) Previous Next

Showing 1 - 10 of 970

Search results for 'Anguilla Anguilla'

Influence of streams discharges on the structure of fish communities of Portuguese land-locked coastal lagoons.
Félix, P. M.; Correia, M. J.; Chainho, P.; Costa, M. J.; Cabral, H. N.; Domingos, I.; Costa, J. L.; Fonseca, L. C. da; Station Biologique de Roscoff, Roscoff, France. *Cahiers de Biologie Marine*, 2013, 54, 3, pp 427-435, 36 ref.
Land-locked coastal lagoons are naturally stressed environments that consequently constrain biological communities that colonize these systems, through...

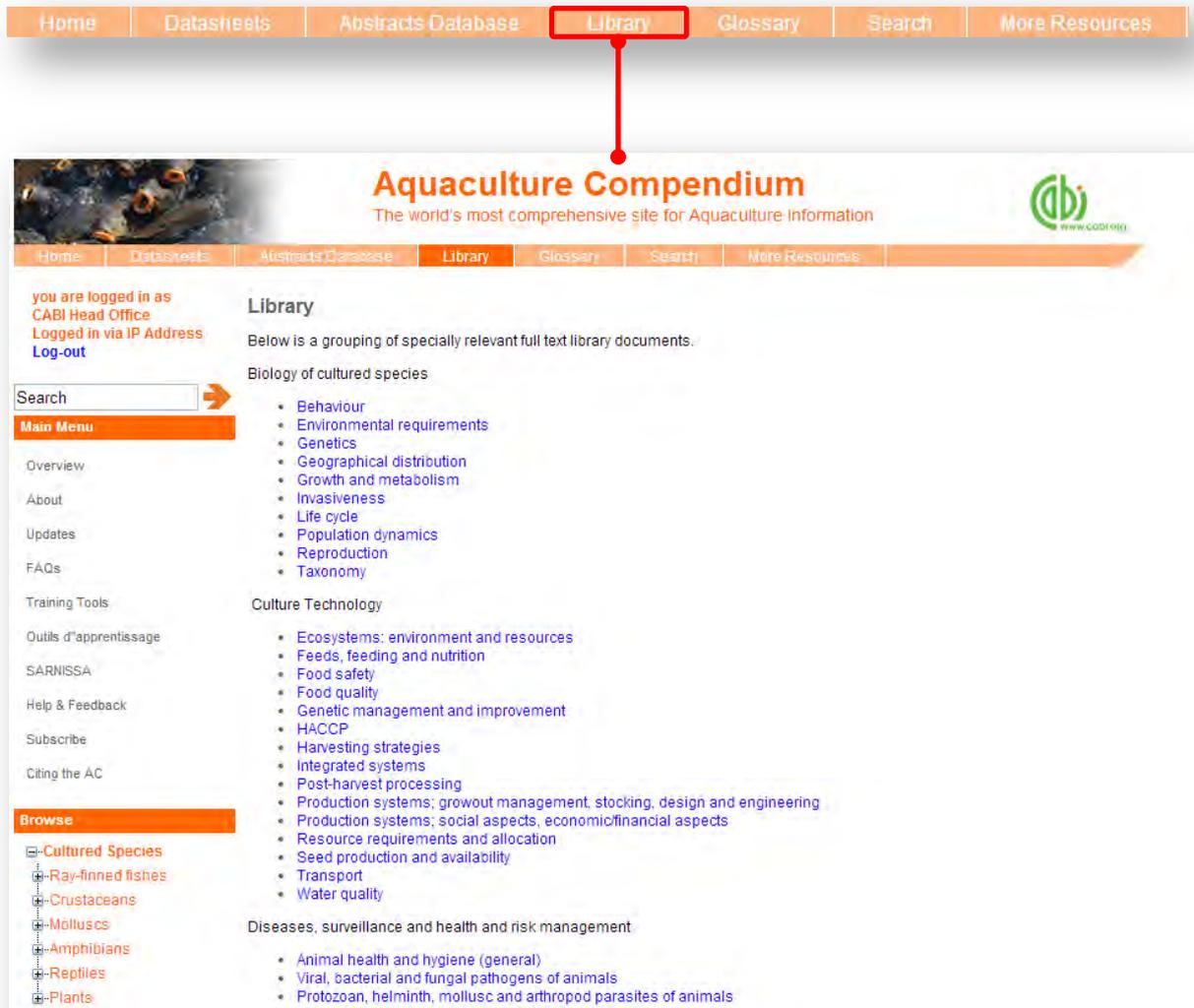
Morphological and molecular characterization of *Lecithochirium grandiporum* (Digenea: Hemiuridae) infecting the European eel *Anguilla anguilla* as a new host record in Egypt.
Abdel-Ghaffar, F.; Bashtar, A. R.; Mehlhorn, H.; Abdel-Gaber, R.; Saleh, R.; Springer Berlin, Heidelberg, Germany. *Parasitology Research*, 2013, 112, 9, pp 3243-3250, 41 ref.
In the present study, the morphological and molecular characterization of *Lecithochirium grandiporum*, a digenetic trematode infecting the European eel...

Partial characterization and ontogenetic development of pancreatic digestive enzymes in Japanese eel *Anguilla japonica* larvae.

The CAB Direct search interface is also the subject of a separate more advanced set of video tutorials and user guides. For more information on how to perform these advanced features visit the [CAB Direct user guide](#).

Library

The library page includes documents that have been compiled by experts, including specially commissioned and previously published information resources from internationally recognized sources. These resources cover biology of cultured species, culture technology, diseases and surveillance methodology, environment, government policy and business operations. Clicking on the Library link in the top bar menu directs you to the Library contents page as shown below.



The screenshot shows the Aquaculture Compendium website. At the top, a navigation bar contains links for Home, Datasheets, Abstracts Database, Library (highlighted with a red box and a red arrow pointing down), Glossary, Search, and More Resources. Below the navigation bar is a banner for the Aquaculture Compendium with the tagline "The world's most comprehensive site for Aquaculture information" and the CABI logo. A secondary navigation bar is also present. The main content area is titled "Library" and includes a login status for "CABI Head Office". A search bar is located on the left. The "Browse" section on the left lists categories such as Cultured Species, Ray-finned fishes, Crustaceans, Molluscs, Amphibians, Reptiles, and Plants. The main content area lists subject categories: "Biology of cultured species" (with sub-links like Behaviour, Environmental requirements, Genetics, etc.), "Culture Technology" (with sub-links like Ecosystems, Feeds, Food safety, etc.), and "Diseases, surveillance and health and risk management" (with sub-links like Animal health and hygiene, etc.).

The library contents page is split in to subject specific categories which when clicked conducts a search for that subject category.

The image below shows the Library page for the topic "genetics". Once clicked the search engine will run the predefined search string and return a results page shown below. We can see that the page uses a predefined search string to return the required results for this topic.



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[Home](#) | [Datasheets](#) | [Abstracts Database](#) | [Library](#) | [Glossary](#) | [Search](#) | [More Resources](#)

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Site Search

(sc:fq OR sc:ft) (genetic improvement OR g 

[Library \(48\)](#) | [Full Text \(271\)](#) | [Abstracts \(271\)](#)

For advanced searching, full text linkage via your Link Resolver, alerts, and RSS Feeds of the Abstracts Database, please use the Abstracts Database. You will need to allow pop-up windows for this.

Sort by: [relevance](#) / date ◀ Previous [Next](#) ▶

Showing 1 - 10 of 48

Search results for '(sc:fq OR sc:ft) (genetic improvement OR genetics) (cc:MM120 OR cc:MM130)'

Manual on applications of molecular tools in aquaculture and inland fisheries management, Part 1: Conceptual basis of population genetic approaches
 Nguyen, T. T. T.; Hurwood, D.; Mather, P.; Na-Nakorn, N.; Kamonrat, W.; Bartley, D.; NACA - Network of Aquaculture Centres in Asia-Pacific, Bangkok, Thailand, **Manual on applications of molecular tools in aquaculture and inland fisheries management, Part 1: Conceptual basis of population genetic approaches**, 2006, pp 80 pp.
[View Full Text](#) 

Use of genetically improved and alien species for aquaculture and conservation of aquatic biodiversity in Africa. Expert Consultation on Biosafety and Environmental Impact of Genetic Enhancement and Introduction of Improved and Alien Species in Africa, 20-23 February 20
 WorldFish Center, Penang, Malaysia, **Use of genetically improved and alien species for aquaculture and conservation of aquatic biodiversity in Africa. Expert Consultation on Biosafety and Environmental Impact of Genetic Enhancement and Introduction of Improved and Alien Species in Africa, 20-23 February 20**, 2004, pp 113 pp.
[View Full Text](#) 

[Notes and documents on fish and fish culture.](#)

To limit the searches further users can simply add keywords to the search string to refine the results returned. For example, by using the Boolean operator AND and adding the keyword "DNA" to the end of the search string as shown below we can return more relevant results.

Custom library page search string

(sc:fq OR sc:ft) genetics (cc:MM120 OR cc:MM130) 

Added term to refine results

(sc:fq OR sc:ft) genetics (cc:MM120 OR cc:MM130) **AND "DNA"** 

Glossary

The glossary is a comprehensive source of vocabulary covering scientific terms used in aquaculture science and aquatic resource management. It includes 30,000 definitions from Balliere's Comprehensive Veterinary Dictionary (3rd Edition).

Searching the glossary

Below shows the glossary page which is accessed from the top bar menu. To search the glossary use the alphabetical menu to scroll through terms by letters.



The screenshot shows the 'Aquaculture Compendium Glossary' page. At the top, a navigation bar includes 'Home', 'Dataheets', 'Abstracts Database', 'Library', 'Glossary', 'Search', and 'More Resources'. The 'Glossary' link is highlighted with a red box and a red line pointing to the page title. The page title is 'Aquaculture Compendium Glossary'. Below the title, there is a search bar and a 'Main Menu' section. The 'Main Menu' section is highlighted with a red box and a red line pointing to the text 'Alphabetical menu'. The 'Main Menu' section includes 'Overview', 'About', 'Updates', 'FAQs', 'Training Tools', 'Dutis d'apprentissage', 'SARNISSA', 'Help & Feedback', 'Subscribe', and 'Citing the AC'. The 'Browse' section is also highlighted with a red box and a red line pointing to the text 'Browsing menu'. The 'Browse' section includes 'Cultured Species', 'Ray-finned fishes', 'Crustaceans', 'Molluscs', 'Amphibians', 'Reptiles', and 'Plants'. The main content area shows 'Page 1 of 292' and 'Listed by: Alphabetical Order'. Below this, there is a 'Starting Letter' menu with a red box around the letters 'A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z'. The 'A' letter is highlighted. The main content area lists terms starting with 'A', such as 'accommodation', 'adenine', 'ampere', 'anode (anodal)', 'anterior', 'axial', 'mass number', 'a-', 'word element [L.] without, not', 'A fibers', 'nerve fibers in nerve trunks and peripheral nerves which have the fastest rate of transmission of nervous impulses', 'A site', 'see aminoacyl-tRNA binding site.', 'a.c.', '[L.] ante cibum (before meals)', 'A2', 'aortic second sound (see heart sounds)', 'a2-opsonic protein', 'see fibronectin.', 'a-a-', '[Gr.] ana (of each), in prescriptions.', 'AA protein', 'a product of ?-globulin and the major protein component of reactive amyloid.', 'aa.', 'pl. arteriae [L.] arteries.'. At the bottom of the page, there is a pagination bar with a red box around the numbers '1 2 3 4 5 6 7 8 9 10 Next' and a red line pointing to the text 'Browsing menu'.

When searching the glossary using the alphabetical menu click on the letter which is the first letter of the term you are searching for. You can then scroll through the list of results using the browse menu at the bottom of the page by clicking either the [Next](#) button or the numerical page.

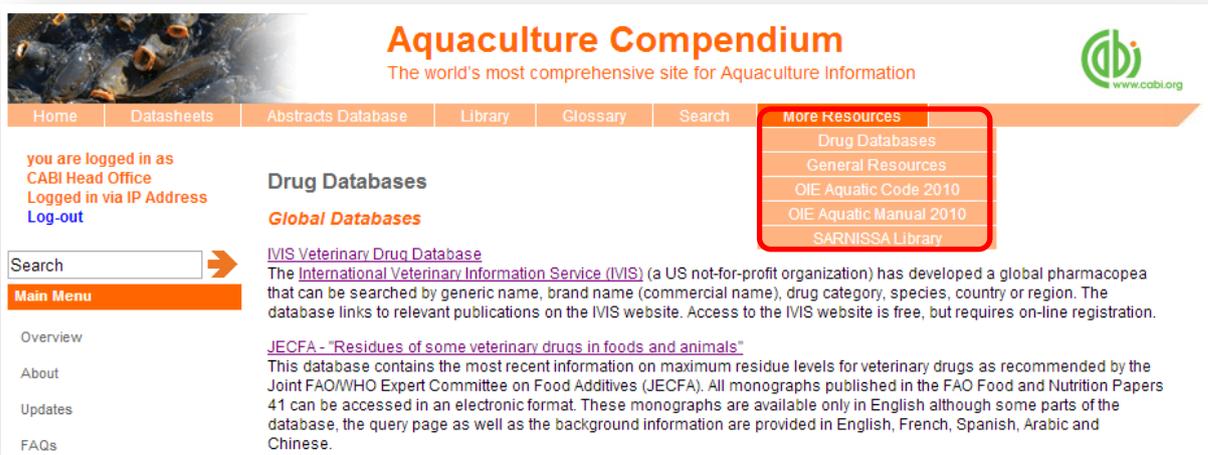
More resources

The More Resources section of the site provides links to an extensive range of external websites and databases that may be of use to researchers and practitioners associated with aquatic sciences and aquatic resource management. These also include global and country specific resources with links to database and resources across a range of languages.

The lists are topic specific and cover a range of different topics and reference materials including:

- Drug databases
- General resources
- OIE Aquatic Code 2010
- OIE Terrestrial Manual 2010
- SARNISSA library

To access a list of resources for each topic area simply hover over [More Resources](#) tab in the top bar menu and click on the relevant area of interest as shown below. A list of resources and a brief description will then be displayed.



The screenshot shows the Aquaculture Compendium website interface. The main navigation bar includes links for Home, Datasheets, Abstracts Database, Library, Glossary, Search, and More Resources. The 'More Resources' dropdown menu is open, showing options for Drug Databases, General Resources, OIE Aquatic Code 2010, OIE Aquatic Manual 2010, and SARNISSA Library. The 'Drug Databases' section is highlighted, showing a link to the 'IVIS Veterinary Drug Database' and a brief description of the 'JECFA - Residues of some veterinary drugs in foods and animals' database.

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Home | Datasheets | Abstracts Database | Library | Glossary | Search | **More Resources**

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Search →

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Drug Databases

Global Databases

[IVIS Veterinary Drug Database](#)
The [International Veterinary Information Service \(IVIS\)](#) (a US not-for-profit organization) has developed a global pharmacopea that can be searched by generic name, brand name (commercial name), drug category, species, country or region. The database links to relevant publications on the IVIS website. Access to the IVIS website is free, but requires on-line registration.

[JECFA - "Residues of some veterinary drugs in foods and animals"](#)
This database contains the most recent information on maximum residue levels for veterinary drugs as recommended by the Joint FAO/WHO Expert Committee on Food Additives (JECFA). All monographs published in the FAO Food and Nutrition Papers 41 can be accessed in an electronic format. These monographs are available only in English although some parts of the database, the query page as well as the background information are provided in English, French, Spanish, Arabic and Chinese.