



BCH
training



A User's Guide to the Central Portal of the Biosafety Clearing-House

“Finding Information in the BCH Central Portal”

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1 Introduction to the manual

What the user will learn in this manual:

This manual will introduce to the user the components of the BCH Central Portal and provide guidance on how to search for information in the BCH databases.

Context

The UNEP-GEF Project for Capacity Building for Effective Participation in the Biosafety Clearing-House (BCH-I), in collaboration with the Secretariat of the Convention on Biological Diversity (SCBD), prepared a modular training package aimed at providing a practical “how-to” guide for countries to assist them in learning, understanding, using, and setting up national access to the BCH. The training package was updated within the UNEP-GEF Project for Continued Enhancement of Capacity Building for Effective Participation in the BCH (BCH-II). It was designed to be flexible and is tailored to meet the diverse needs of different countries, allowing them to select those tools that are most useful to their situation, needs and priorities. The training package is divided into several manuals, each addressing one element of the BCH. This manual has been developed by the Secretariat after the revamping of the Management Centre, in line with all the other previous manuals.

Audience

This manual is designed to provide guidance to users of the BCH. It is developed for a non-technical audience with little or no knowledge of the Protocol and the BCH, but with a need to access and use data. Access to information is available to all users, but access to input facilities for the BCH is limited to those who have particular levels of access, *e.g.* BCH National Focal Points and data entry personnel.

Purpose

This manual provides detailed information about the databases found within the **Finding Information** section of the Central Portal. It explains how to find information in the BCH Central Portal. The web-based Central Portal allows governments to administer their information directly in the BCH databases. These databases, which form the nucleus of the BCH, can be searched to find relevant and useful information about the Protocol and LMOs.

Each of the sections will guide the user into the different procedures to retrieve the maximum relevant information available through the BCH Central Portal.

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2 Finding Information

URL: <http://bch.cbd.int/database/>

The BCH was established under Article 20 of the Cartagena Protocol to facilitate the exchange of information about LMOs. The requirements for the types of information are listed in this Article, and the BCH maintains databases with the relevant information. Access to this information is provided through the **Finding Information** page of the BCH website, which can be found through a link on the navigation bar of the BCH Central Portal.

The screenshot shows the main interface of the BCH Central Portal. At the top, there is a navigation bar with links for Home, The BCH, The Protocol, Finding Information (which is highlighted in orange), Registering Information, Resources, Help, and Country Profiles... A sign-in link is also present. The main content area features a banner for the Convention on Biological Diversity and a "Welcome to the BCH Central Portal" message. Below this, there are sections for "Latest news", "Latest Additions", and "Latest updates". On the right side, there are several promotional boxes for "Second National Report", "Open-ended Online Expert Forum", "Biosafety Awareness Survey", and "BCH on BCH focal points' forum". At the bottom, there are social media links for Follow us: (BCH, CPB, Twitter, Facebook, YouTube) and footer links for Contact us, Site Map, Linkages Policy, Privacy Policy, Disclaimer, and © SCBD 2001-2012. There is also a rating section showing 67 people have rated the page with 5 stars.

Figure 1

Figure 2

Finding Information section allows users to access a wide variety of scientific, technical, environmental, legal and capacity-building information from the BCH databases. The categories of information are listed on the **Finding Information** page.

The main page of the **Finding Information** section contains a welcome message and a list of the information available which is divided into two groups. The left-hand group lists categories of **National Records**, which are submitted by Governments as mandated by Article 20 of the Protocol. The right-hand group lists categories of **Reference Records**, which are submitted by general BCH registered users. Categories of information from both groups also appear in the left-hand menu of the **Finding Information** page. The Compiled Information section of the left-hand menu provides access to compiled records and listings.

The following chapters provide a general guide to the usage of the search pages, followed by an insight specifically into each of the categories of information and on how to access information from each database.

2.1 Using the search pages

The Finding Information section of the BCH provides web pages to search for each category of information in the BCH. These web pages are designed to let the user specify the search criteria and then display the records found which match the search criteria used. To access a searchable database of interest, click on the link either on the Main page of the section or in the left-hand menu, or select it from the drop-down menu of the **Finding Information** link on the BCH navigation bar.

All search pages have a similar and consistent design. Let us take the **National Contacts** search page as an example.

The search page contains:

1. A brief description of the search page and the type of information that can be found through it.
2. The search criteria input area
3. The **Search** buttons
4. The **Browse all records** button

The screenshot shows the 'Search for National Contacts' page. The left sidebar lists categories like 'National Contacts', 'Laws and Regulations', etc. The main area has a heading 'Search for National Contacts'. It includes a brief description of the search types, download options, and search fields for country, region, contact type, date, and keywords. Callouts point to specific elements: 1 points to the descriptive text; 2 points to the search criteria input area (highlighted by an orange oval); 3 points to the 'Search' and 'Browse all records' buttons; 4 points to the 'Keyword search' input field.

Figure 3

The criteria that can be used are given by the input boxes that appear on the search page of each category of information. The input boxes are used to narrow the search results, i.e. they can be used to obtain a smaller and more specific set of records, but never a wider one.

Several types of input boxes (also called fields) can be found in the criteria input area. Many of these types of fields are also found in the search pages of other categories of information. The following list describes these field types, which are shared among several categories of information:

- **Selection list field:** Fields of this type contain a list of pre-defined terms. This means that the user cannot input any term in the field, but must select terms from that pre-defined list. The list of terms is populated from a controlled vocabulary (see <http://bch.cbd.int/help/faq/#THE>). The most common example of this type of field is the **Country(ies)** field, which allows the user to narrow the search results to records regarding a specific country or countries. Another example of this type of field is the **Geographical region(s) or political/economic group(s)** field, which allows narrowing the search results to specific geographical region(s) or political or economic group(s). Please note that the **Country(ies)** and the **Geographical region(s)... fields** cannot be used together: only one of them can be used at a time. The default setting for each selection list field is the first item at the top of the menu list. It is also possible to select more than one term from the list, and this is covered in “Using multiple selection” section of this manual.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Search »

Select country(ies)	
Country(ies):	<Any> <Any> Afghanistan Albania Algeria Andorra Angola Antigua and Barbuda Argentina Armenia Australia Austria
Type of National Contact	
Date of record	
Keyword search	Azerbaijan Bahamas Bahrain Bangladesh Barbados Belarus Belgium Belize Benin

Figure 4

- **Date of record field:** Fields of this type allow narrowing the search results to a specific time interval.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

[Search »](#)

<p>Country(ies):</p> <p>Select country(ies)</p> <p><Any></p>	<p>Select geographical region(s) or political/economic group(s)</p> <p><Any></p>
<p>Type of National Contact</p> <p><All></p>	
<p>Date of record</p> <p><All></p> <p><All></p> <p>Last day</p> <p>Last week</p> <p>Last two weeks</p> <p>Last month</p> <p>Last two months</p> <p>Last six months</p> <p>Last year</p>	
<p>Keyword search</p> <p>Search »</p>	

Figure 5

- **Keyword field:** Fields of this type allow narrowing the search results to records that have specific keywords. A single keyword may be entered, or a combination of keywords using the standard keyword syntax explained below. Please notice that a search that is made by using keywords only produces results of records containing exactly the searched text and not possible synonyms that have not been inserted (i.e. a search with the single keyword “Maize” will produce a list of records containing the word “Maize” but not the words “Corn” or “*Zea mays*”)
 - **AND:** if two keywords are combined using the AND operator (see picture) then only records containing both keywords will be returned.
 - **OR:** if two keywords are combined using the OR operator (see picture) then records which have at least one of the words will be returned.
 - **Asterisk:** the user may enter part of a keyword followed by an asterisk (see picture) so that records with keywords which start with the text entered are returned. For example, if “Agricultur*” is entered, then all records with keywords beginning with “Agricultur”, such as “Agriculture” and “Agricultural”, will be returned.

Keyword search	Enter keywords. Separate words with AND or OR. <input type="text" value="Import"/>
	<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text" value="Import AND Agriculture"/>
	<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text" value="Import OR Agriculture"/>
	<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text" value="Agricultur*"/>
	<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>

Figure 6

- **Fields for adding additional search criteria:** Some categories of information contain fields that allow the user to add more search criteria to the search criteria area. For example, in the **LMOs, Genes and Organisms** search page there is a field called “Type of living organism” for adding additional search criteria to define how to search for living organisms. Selecting an option in that field will make a new field appear in the search criteria area. For example, if the user selects the “Filter by gene trait” option, then a new selection list field called “Introduced or modified traits” will appear. The user may then select a term from the pre-defined list of terms of that field so as to narrow the search results to a specific gene trait. However, the user could have selected the “Filter by gene name” option before in order to make a field called “Gene” appear, and thus narrow the search results to records of a specific gene.

Type of gene	<input type="text" value="<All>"/> <input type="text" value="Filter by gene name"/> <input checked="" type="text" value="Filter by gene trait"/>
	Please use Control-key to select multiple values
Introduced or modified traits	<input type="text" value="<All>"/> <input type="text" value="Changes in physiology and/or production"/> <ul style="list-style-type: none"> - Growth rate - Photoperiod response - Reproduction - Genetic use restriction technology (GURT) - Male sterility - Ripening
	Please use Control-key to select multiple values

Figure 7

Fields of this type are similar in appearance to Selection List fields but absolutely different in their operation. One distinctive aspect of these fields is that all their options begin with "Filter by". Note that several new search fields may be added by selecting more than one option from the additional criteria field; please see "Using multiple selection".

Finally, the **Search** button performs the search based on the specified criteria and then shows the search results, while the **Browse all records** button displays all records in the current category of information.

2.1.1 Using multiple selection

Many fields allow the user to select an option from a drop-down box, e.g. selection lists and additional criteria fields. These fields are often followed by a small icon with a green arrow, which can be used to select more than one option from the dropdown box.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Search »

Select country(ies)	
Country(ies):	<Any>
	
Select geographical region(s) or political/economic group(s)	
	<Any>
	
Type of National Contact	<All>
	
Date of record	<All>
	
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>
Browse all records » Search »	

Figure 8

Clicking on that icon displays the selectable options in a list. To select multiple options, hold down the Control (Ctrl) key if you are using a PC system or the Apple key if you are using a Macintosh system, while you click on the several options that you wish to select.

The icon now shows a red arrow pointing up, and clicking on it again will close the list and return you to the single selection option.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Search »

Select country(ies)

Country(ies):

- <Any>
- Afghanistan
- Albania
- Algeria
- Andorra
- Angola
- Antigua and Barbuda
- Argentina
- Armenia
- Australia

Please use Control-key to select multiple values



Figure 9

When more than one option is selected from a selection list field, records corresponding to any of the selected options are included in the results. For example, when searching for National Contacts, if two countries are selected in the **Country(ies)** field, National Contacts from both countries will be displayed in the search results, i.e., records corresponding to the first and to the second selected countries.

Conversely, when more than one option is selected from an additional search criteria field, several new fields will be displayed in the search criteria area for the user to fill. For example, when searching for Country's Decisions and Other Communications, new search criteria can be added by selecting multiple options in the **Type of living modified organism** field. For example, if the "Filter by Unique Identifier", "Filter by Gene name" and "Filter by Technique Used" options are selected, then three new fields will appear accordingly in the screen for the user to input search criteria in them.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Search »

Country(ies):	Select country(ies) <input type="text" value="<Any>"/>  
Type of decision, declaration, notification or report	Select geographical region(s) or political/economic group(s) <input type="text" value="<Any>"/>  
Type of living modified organisms	<input type="text" value="<All>"/>   <ul style="list-style-type: none"> <All> Filter by Unique Identifier Filter by Introduced or Modified Traits Filter by Gene name Filter by Technique Used Filter by Parental organism (common name) Filter by Parental organism (scientific name) <p>Please use Control-key to select multiple values</p>
Unique Identifier	<input type="text" value="<All>"/>  
Gene	<input type="text" value="<All>"/>  
Technique Used	<input type="text" value="<All>"/>  
Date of record	<input type="text" value="<All>"/>  
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>
Browse all records » Search »	

Figure 10

2.1.2 Managing search results

Pressing the **Search** button will display the search results page, listing all records that match the specified search criteria. The header of the list shows the amount of records found and provides links to navigate through the pages of the search results list.

The screenshot shows the Biosafety Clearing-House website interface. The top navigation bar includes links for Home, The BCH, The Protocol, Finding Information, Registering Information, Resources, Help, and Country Profiles... A green sidebar on the left contains links for Finding Information (National Contacts, Laws and Regulations, Country's Decisions and other Communications, Roster of Experts, LMOs, Genes or Organisms, National Reports, Capacity-Building, Organizations, The BCH Virtual Library), Compiled Information (National Contacts, LMO Registry, Organism Registry, Gene Registry), and a Go to record ID input field with a Go button. The main content area is titled "Search results" and displays a table with columns for ID and Description. The table shows three entries: Afghanistan (ID 9896, National Focal Point: Mohammed Hashim Barikzai, CBD National Focal Point), Albania (ID 9314, Competent National Authority: Ministry of Health), and another entry for Albania (ID 101389, National Focal Point: Enkelejda Malaj, CBD National Focal Point, Emergency Measures (Article 17) Contact Point). Above the table, a message indicates "820 record(s) found". The bottom right of the table area features a pagination control with links for "Previous", page numbers (1, 2, 3, 4, 5, 6, 7, 8, ...), and "Next >". An orange circle highlights this pagination area. The top right of the page has links for "Sign Up for an Account" and "Sign In". The top left shows language links for various languages, and the top right shows a "Country Profiles..." dropdown and some icons.

Figure 11

For users' convenience, all search results can be grouped and sorted by type of record, country and year of submission to the BCH. Multiple sort stages can be defined by using the additional “and then” fields that appear every time a grouping/sorting option is selected. Grouping and sorting records **by country** is not available for such categories of information as LMOs, Genes or Organisms, National Reports, Organizations, and the BCH Virtual Library. Using a “Group records by” feature allows grouping search results by the specified criteria and displays the results in folders labeled with appropriate name and indicating a number of records per group. The user can open or close folders by clicking on the arrow to the right of the folder. An example of grouping search results for National Contacts by all three criteria is shown below.

Figure 12

By using the “Sort records by” feature the user obtains results displayed as a list where records are listed in accordance with the specified criteria. For example, search results may be sorted by type of record by selecting the “Type of record” option in the “Sort records by” box.

[Home](#) | [Finding Information](#) | Search results

Search results

Group records by Results per page 25
 Sort records by Type of record
 and then Export results to CSV file
[Show on map](#)

< Previous | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | ... | 33 | Next >

ID	Description
820 record(s) found	
 Ethiopia 713	Competent National Authority Environmental Protection Authority of The Federal Democratic Republic of Ethiopia
 Croatia 101576	Competent National Authority The Ministry of Regional Development, Forestry and Water Management
 Guinea 40199	Competent National Authority Ministry of Agriculture, Livestock, Environment, Waters and Forests.

Figure 13

The user can also define a number of records displayed on a search page (1), exports results to CSV (comma separated values) file, so that the results can be used and inserted into other documents and handled by other applications (2), and obtain search results shown on the map (3). All these features can be accessed by clicking appropriate icons/links displayed in the top right corner of the **Search Results** page.

[Home](#) | [Finding Information](#) | Search results

Search results

Group records by 1 Results per page 25
 Sort records by Export results to CSV file
 2 Show on map
 3

< Previous | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | ... | 33 | Next >

[Map](#)

Map
 Disclaimer: The boundaries and names shown and the designations used on maps, graphics and publications do not imply official endorsement or acceptance by the United Nations.



25
[Export results to CSV file](#)
[Show on map](#)

Figure 14

Each record displayed contains a link (which can be on the record ID number and/or on the record name, depending on the record type) which displays the detailed record information when clicked on.

The screenshot shows two pages from the BCH Central Portal. The top page is titled 'Search results' and lists one record found for 'Paraguay National Focal Point'. The record details are: ID 100999, Name Brígido Lezcano, Category Cartagena Protocol on Biosafety National Focal Point. A yellow arrow points from the record ID in the search results to the detailed record page below. The bottom page is titled 'Record details' for the same record. It shows the record information and status (Record ID 100999, Status Published, Date of creation 2010-02-27, Date of last update 2010-09-24), General Information (Country Paraguay), and Category of National Focal Point (Cartagena Protocol on Biosafety National Focal Point).

Figure 15

This picture was taken on January 2012 with the only purpose of providing an example on the usage of the BCH.

If the record is available in more than one language, then a bar is displayed which allows the user to select in which language to view the record information.

The screenshot shows the 'Record details' page for a document with Record ID 48852. The page includes sections for 'Record information and status' (Status Published, Date of creation 2009-05-26, Date of last update 2009-09-16) and 'General Information' (Title: 20 QUESTIONS ON GENETICALLY MODIFIED (GM) FOODS). A dropdown menu is open, showing language options: 'Select language', 'English', 'Español', and 'Français'. An orange oval highlights this dropdown menu.

Figure 16

If any record in the database references the one currently being displayed, then a section called “Records referencing this document” appears at the bottom of the page. This section provides direct links to all records that reference the current one. The links are grouped in folders by type of record and can be accessed by clicking on the icon with arrow located in the right corner of the row.

Records referencing this document (4)		
ID	Description	
4 record(s) found		
	Country's Decision or any other Communication 9828 Canada Approval of the import/use of the LMO(s) without conditions	3 records
	Mexico 8053 Mexico Approval of the import/use of the LMO(s) without conditions	BXN-10215-4, BXN-10222-2, BXN-10224-4
	United States of America 6637 United States of America Approval of the import/use of the LMO(s) without conditions	BXN-10211-9, BXN-10215-4, BXN-10222-2, BXN-10224-4
	Risk Assessment	1 record

Figure 17

2.2 National Contacts

URL: <http://bch.cbd.int/database/contacts/>

Article 19 of the Protocol requires the designation of Competent National Authorities and National Focal Points. This information, as well as National Biosafety Websites and Databases, is searchable from the **Search for National Contacts** page.

The search page for information about National Contacts can be accessed from the link in the **Finding Information** drop-down menu on the navigation bar, or from the link in the left-hand menu of the **Finding Information** page, or from the National Contacts link in the text of that page.

The screenshot shows the BCH website's navigation bar with links like Home, The BCH, The Protocol, Finding Information, Registering Information, Resources, Help, and Country Profiles... A red circle highlights the 'National Contacts' link under the 'Finding Information' menu. Another red circle highlights the 'National Focal Points for Biosafety' link in the main content area.

Figure 18

The National Contacts search interface enables the user to search for:

- § National Focal Points for the Cartagena Protocol on Biosafety (CPB-NFPs), who are responsible on behalf of their governments for liaison with the CBD Secretariat on issues required by the Protocol;
- § National Focal Points for the Biosafety Clearing-House (BCH-NFPs), who are responsible to facilitate the sharing of information and to liaise with the CBD Secretariat on issues of relevance to the development and implementation of the BCH;
- § National Focal Points for the Convention on Biological Diversity (CBD-NFPs), who are responsible for communication with the CBD Secretariat on matters involving the Convention;
- § Emergency Measures Contact Points nominated to receive notifications under Article 17 of the Protocol;
- § Competent National Authorities, who are designated and authorized by their government to be responsible for performing the administrative functions required by the Protocol; and
- § National Biosafety Websites and Databases.

On the **Search for National Contacts** page there are several search criteria boxes:

1. Country(ies): Selection list field for selecting a country or countries
2. Geographical region(s) or political/economic group(s): Selection list field for selecting geographical region(s) or political/economic group(s)
3. Type of National Contact: Selection list field for narrowing the search results to specific types of national contacts
4. Date of record: Selection list field for narrowing the search results to a time interval
5. Keyword search: Keyword field for narrowing the results by keyword(s).

See “Using the search pages” section to learn about types of fields and their operation.

The screenshot shows the 'Search for National Contacts' page. On the left is a sidebar with 'Finding Information' and 'Compiled Information' sections. The main area has a title 'Search for National Contacts' and a descriptive text about searching for different types of national focal points. Below this is a form with five search criteria fields, each with a yellow arrow pointing to it from the right side:

- 1. 'Country(ies)' dropdown menu.
- 2. 'Select geographical region(s) or political/economic group(s)' dropdown menu.
- 3. 'Type of National Contact' dropdown menu.
- 4. 'Date of record' dropdown menu.
- 5. 'Keyword search' input field.

At the bottom right of the form are two buttons: 'Browse all records' and 'Search >'.

Figure 19

Example 1: A user may wish to identify the Emergency Measures Contact Point in Paraguay for issues related to unintentional transboundary movements of LMOs and emergency measures. By selecting Paraguay from the **Country(ies)** field and ‘Emergency Measures (Article 17) Contact Point’ from the **Type of National Contact** drop-down menu, the user narrows the search results to the records most likely to provide the required information.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Select country(ies)	<input type="text" value="Paraguay"/>	<input type="button" value="Search »"/>
Country(ies):	<input type="button" value=""/>	
Select geographical region(s) or political/economic group(s)	<input type="text" value="<Any>"/>	
Type of National Contact	<input type="text" value="- Emergency Measures (Article 17) Contact Point"/>	
Date of record	<input type="text" value="All"/>	
Keyword search	<input type="text" value="Enter keywords. Separate words with AND or OR."/>	
<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>		

Figure 20

When the **Search** button is clicked on, a page of **search results** shows which National Contacts in Paraguay have responsibility for emergency measures. Clicking on the name of the focal point opens the record that contains the details for that national contact.

The image shows two screenshots of the BCH Central Portal. The top screenshot is a search interface with fields for country, geographical region, type of contact, date, and keyword search. The bottom screenshot is a 'Search results' page showing a list of records. One record for 'Paraguay' is selected, and a yellow arrow points from the search results page to the detailed record page for 'Maria Cristina Torres'. The detailed record page shows general information and status, including Record ID 9851, Status Published, Date of creation 2005-07-18, and Date of last update 2010-02-27. It also lists the country as Paraguay and the category as Emergency Measures (Article 17) Contact Point.

Figure 21

This picture was taken on January 2012 with the only purpose of providing an example on the usage of the BCH.

Example 2: A user may wish to identify all of the BCH Focal Points in countries that are members of the Association of Southeast Asian Nations (ASEAN). The

user selects Asia- Association of Southeast Asian Nations in the **Geographical region(s) or political/economic group(s)** box and Biosafety Clearing-House Focal Point in the **Type of National Contact** box.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Country(ies):	Select country(ies) <input type="text" value="Any"/> ▼ ▲ Select geographical region(s) or political/economic group(s) <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> Asia - South-Eastern Asia Asia - Southern Asia Asia - Western Asia Asia - Association of Southeast Asian Nations Asia - Economic and Social Commission for Western Asia Asia - South Asia Cooperative Environment Programme Asia-Pacific - Economic and Social Commission for Asia and the Pacific Europe - All countries Europe - Eastern Europe Europe - Northern Europe </div> <p>Please use Control-key to select multiple values</p>	Search »
Type of National Contact	<div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <All> All National Focal Points (CPB, BCH, Art 17, CBD) - Biosafety Clearing-House Focal Point - Cartagena Protocol on Biosafety National Focal Point - Cartagena Protocol on Biosafety Secondary National Focal Point - CBD National Focal Point - Emergency Measures (Article 17) Contact Point All Competent National Authorities (AIA, A11, Contuse, Handling, Pharm.) </div> <p>Please use Control-key to select multiple values</p>	Search »
Date of record	<input type="text" value="All"/> ▼	
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>	
Browse all records » Search »		

Figure 22

Clicking on the **Search** button displays a set of results showing the BCH Focal Points in the countries that are members of the ASEAN. Clicking on the name of the focal point opens the record that contains the details for that national contact.

The screenshot shows the 'Search results' page of the BCH Central Portal. The left panel displays a list of National Focal Points with columns for ID and Description. The right panel shows a detailed record for Brunei Darussalam, categorized as a Biosafety Clearing-House Focal Point under the Ministry of Development. A yellow arrow highlights the transition from the search results to the detailed record.

ID	Description
8633	Brunei Darussalam National Focal Point
45313	Cambodia National Focal Point
8726	Indonesia National Focal Point
8764	Lao People's Democratic Republic National Focal Point
102448	Malaysia National Focal Point
	Myanmar

Ministry of Development
Biosafety Clearing-House Focal Point

National Focal Point

Record information and status

- Record ID: 8633
- Status: Published
- Date of creation: 2005-03-23 16:52 UTC (bchadmin@cbd.int)
- Date of last update: 2008-02-21 00:00 UTC (bchadmin@cbd.int)

General information

Country

- Brunei Darussalam

Category of National Focal Point

- Biosafety Clearing-House Focal Point

Figure 23

This picture was taken on January 2012 with the only purpose of providing an example on the usage of the BCH.

2.3 Laws and Regulations

URL: <http://bch.cbd.int/database/laws/>

Under the Cartagena Protocol, Parties are responsible for making available through the BCH information about their relevant laws and regulations.

The search page for information about Laws and Regulations can be accessed from the link in the **Finding Information** drop-down menu on the navigation bar, or from the link in the left-hand menu on the **Finding Information** page, or from the Laws and Regulations link in the text of that page.

The screenshot shows the BCH website's navigation bar with links like Home, The BCH, The Protocol, Finding Information, Registering Information, Resources, Help, and Country Profiles... A green Convention on Biological Diversity logo is visible. The main content area has a large image of hands holding a globe. The 'Finding Information' section is expanded, showing sub-links for National Contacts and Laws and Regulations. The 'Laws and Regulations' link is circled in red. A dropdown menu from this link shows options like 'Country's Decisions and other Communications', 'Roster of Experts', 'LMOs, Genes or Organisms', etc.

Figure 24

This database enables users to search for:

- § National Laws - typically laws that have been passed by the national legislative body of a country's government;
- § National Regulations - typically 'subordinate legislation', usually of an administrative nature, that is authorized by a national law;
- § National Guidelines - typically intended to assist with providing ways of complying with national laws, and national regulations;
- § Regulatory Summaries/National Biosafety Frameworks
- § Bilateral Agreements - typically agreements between two governments; Multilateral Agreements - typically agreements between three or more governments; and
- § Regional Agreements - typically agreements that are restricted to a particular region.

On the **Search for Laws and Regulations** page there are several search criteria boxes:

1. Country(ies): Selection list field for selecting a country or countries
2. Geographical region(s) or political/economic group(s): Selection list field for selecting geographical region(s) or political or economic group(s)
3. Type of Laws or regulations: Selection list field for narrowing the search results to specific types of laws and regulations
4. Subject area: Selection list field for narrowing the search results to specific subject areas
5. Date of record: Selection list field for narrowing the search results to a time interval
6. Keyword search: Keyword field for narrowing the results by keyword(s).

See “Using the search pages” to learn about types of fields and their operation.

The screenshot shows the 'Search for Laws and Regulations' page. On the left is a sidebar with 'Finding Information' and 'Compiled Information' sections. The main area has a title 'Search for Laws and Regulations' and a descriptive paragraph about search categories. Below is a form with six numbered input fields:

- 1. Country(ies): A dropdown menu labeled '<Any>'.
- 2. Select geographical region(s) or political/economic group(s): A dropdown menu labeled '<Any>'.
- 3. Type of Laws or regulations: A dropdown menu labeled '<All>'.
- 4. Subject area: A dropdown menu labeled '<All>'.
- 5. Date of record: A dropdown menu labeled '<All>'.
- 6. Keyword search: A text input field with placeholder 'Enter keywords. Separate words with AND or OR.'

At the top right are search and browse buttons, and at the bottom right is another search button.

Figure 25

Example: A user wishes to identify national laws and regulations in the Oceania region. Select Oceania – All countries in the **Geographical region(s) or political/economic group(s)** box. Select National Laws, Regulations & Guidelines in the **Type of Laws or regulations** box. Click on the **Search** button. The search results are displayed and the user can select any record to study the documentation from specific countries in the region.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

<input type="button" value="Search »"/>	
Select country(ies)	
Country(ies):	<input type="text" value="<Any>"/> <input type="button" value="▼"/> <input type="button" value="▼"/>
Select geographical region(s) or political/economic group(s)	
Oceania - All countries	<input type="button" value="▼"/> <input type="button" value="▼"/>
Type of Laws or regulations	<input type="text" value="National Laws, Regulations & Guidelines"/> <input type="button" value="▼"/> <input type="button" value="▼"/>
Subject area	<input type="text" value="<All>"/> <input type="button" value="▼"/> <input type="button" value="▼"/>
Date of record	<input type="text" value="<All>"/> <input type="button" value="▼"/>
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>
<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>	

Figure 26

Home | Finding Information | Search results

Search results

Group records by Results per page: 25
Sort records by Export results to CSV file
Show on map

ID	Description
24	Australia Gene Technology Act 2000
45292	Kiribati
45293	Kiribati All functions pursuant to the Cartage Biosafety
101776	Kiribati All functions pursuant to the Cartage Biosafety
9951	New Zealand

[Home](#) | [Finding Information](#) | Record details

Law, Regulation or Guideline

Record information and status

- Record ID: 24
- Status: Published
- Date of creation: 2001-11-27 15:51 UTC (elizabeth.flynn@health.gov.au)
- Date of last update: 2009-06-31 00:00 UTC (giovanni.ferriolo@cbd.int)

General Information

Country: Australia

Title of document:
Gene Technology Act 2000

Legislative details

Type of document: National Law

Figure 27

This picture was taken on January 2012 with the only purpose of providing an example on the usage of the BCH.

2.4 Country's Decisions and other Communications

URL: <http://bch.cbd.int/database/decisions/>

Under the Cartagena Protocol, Parties are responsible for making available through the BCH information regarding their relevant decisions, declarations and other communications.

The search page for information about **Country's Decisions and other Communications** can be accessed from the **Finding Information** drop-down menu on the navigation bar, or from the link in the left-hand menu of the **Finding Information** page, or from the **Country's Decisions and other Communications** link in the text on that page.

The screenshot shows the main navigation bar of the Biosafety Clearing-House website. The 'Finding Information' menu is open, displaying several categories. The 'Country's Decisions and other Communications' link is circled in red. The right panel contains descriptive text and links related to this category, such as 'National Contacts', 'Laws and Regulations', and 'Reference Records'.

Figure 28

This database enables users to search for decisions and other communications related to:

- Decisions on Contained use of LMOs (Article 6.2)
- Decisions on LMOs for direct use as food or feed, or for processing (Article 11, LMOs-FFPs)
 - Decisions on domestic use of an LMO, including its placing on the market
 - Decisions on import of LMOs

- Decisions on LMOs for intentional introduction into the environment (according Article 10 or domestic regulatory framework)
 - Decisions taken in accordance with the Advance Informed Agreement (AIA) procedure specified in Article 10
 - Decisions taken in accordance with your domestic regulatory framework
- Decisions on Pharmaceuticals (Article 5)
- Decisions on Transit of LMOs (Article 6.1)
- Decisions under the Simplified Procedure (Article 13)
- Other decisions, notifications, declarations or communications
 - Communication of information on 'Handling, Transport, Packaging and Identification' (Article 18)
 - Declarations made upon ratification of or accession to the Protocol
 - Declaration that, in the absence of a domestic regulatory framework, decisions on LMOs-FFPs will be taken according to Article 11.6
 - Notifications about illegal transboundary movements of LMOs (Article 25.3)
 - Notification about the unintentional transboundary movement of LMOs (Article 17.1)
 - Notifications that a Party does not have access to the Biosafety Clearing-House (Article 11.1)
 - Notifications that domestic regulations shall apply with respect to specific imports of LMOs (Article 14.4)
 - Other decisions, notifications, declarations or communications
- Risk Assessments

On the **Search for Country's Decisions and Other Communications** page there are several search criteria boxes:

1. Country(ies): Selection list field for selecting a country or countries
2. Geographical region(s) or political/economic group(s): Selection list field for selecting geographical region(s) or political/economic group(s)
3. Type of decision, declaration, notification or report: Selection list field for narrowing the search results to specific types of decisions, declarations, notifications or reports
4. Type of living modified organisms: Additional search criteria field to add different search criteria.
5. Date of record: Selection list field for narrowing the search results to a time interval
6. Keyword search: Keyword field for narrowing the results by keyword(s)

See "Using the search pages" to learn about types of fields and their operation.

Finding Information

- National Contacts
- Laws and Regulations
- Country's Decisions and other Communications
- Rooster of Experts
- LMOs, Genes or Organisms
- National Reports
- Capacity-Building
- Organizations
- The BCH Virtual Library
- Advanced Search --

Compiled Information

- National Contacts
- LMO Registry
- Organism Registry
- Gene Registry

Go to record ID Go

Search for Country's Decisions and other Communications

On this page you can search for Decisions and other Communications about: (i) Decisions on LMOs under the **Advance Informed Agreement (AIA)**, which applies to the first intentional transboundary movement of LMOs for intentional introduction into the environment of the Party of import; (ii) Decisions on **LMOs for food, for feed or for processing** under **Article 11** of the Cartagena Protocol regarding the requirement that countries exchange information at an early stage through the BCH; (iii) **Other decisions & declarations**; and (iv) **Risk Assessment Reports** carried out to evaluate the potential adverse effects of LMOs on biodiversity and human health.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Country(ies):	Select country(ies) <Any>	<input type="button" value="Search"/>	1
Type of decision, declaration, notification or report:	Select geographical region(s) or political/economic group(s) <Any>	<input type="button" value="Search"/>	2
Type of living modified organism:	<All>	<input type="button" value="Search"/>	3
Date of record:	<All>	<input type="button" value="Search"/>	4
Keyword search:	Enter keywords. Separate words with AND or OR..	<input type="button" value="Search"/>	5
		<input type="button" value="Browse all records >"/>	6

Figure 29

Search results are displayed in the **Search results** page. A set of icons is displayed to the right of each record. These icons indicate which categories of LMO use each record refers to. For example, some records may contain decisions regarding an LMO for use as feed, food and processing, while others may contain a decision about an LMO for introduction into the environment.

Organizations		ID	Description	
The BCH Virtual Library				<Previous 1 2 Next >
-- Advanced Search --				
Compiled Information				
National Contacts				
LMO Registry				
Organism Registry				
Gene Registry				
Go to record ID				
<input type="text"/> Go				
34 record(s) found				
 Argentina 765 Approval of the import/use of the LMO(s) without conditions				
 Argentina 11814 Approval of the import/use of the LMO(s) DAS-01507-1 Corn				
 Argentina 43633 Approval of the import/use of the LMO(s) MON-00603-6 x MON-00810-6 Corn				

Figure 30

An icon in colors means that the record involves that category of LMO use, while a grey icon indicates that it does not. The meaning of each icon is described in the following table.

	Intentional introduction into the environment
	Direct use as food
	Direct use as feed
	Processing

	Contained use
	Pharmaceutical
	Transit
	Other use

Information about other icons used in the BCH can be found on the **BCH Icons** page under the **Resources** section (<http://bch.cbd.int/resources/icons/>), as well as in the Ready Reference Guide 04 (BCH Training materials, Help section).

Example: A user wishes to identify all the decisions taken by New Zealand under Article 11 of the Protocol. Select New Zealand in the **Select country(ies)** box. Select Decision on LMOs for direct use as food or feed, or for processing (Article 11, LMOs-FFP) in the **Type of decision, declaration, notification or report** box. Click on the **Search** button.

The search results are displayed as a list of records. Detailed information about each record can be viewed by clicking on the record ID number (in bold blue type).

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Search »

Country(ies):	<input type="text" value="New Zealand"/>
Type of decision, declaration, notification or report	<input type="text" value="Decision on LMOs for direct use as food or feed, or for processing (Article 11, LMOs-FFP)"/>
Type of living modified organisms	<input type="text" value="<All>"/>
Date of record	<input type="text" value="<All>"/>
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>
<input type="button" value="Browse all records »"/> <input style="border: 2px solid orange; border-radius: 15px; padding: 2px 10px;" type="button" value="Search »"/>	

Figure 31

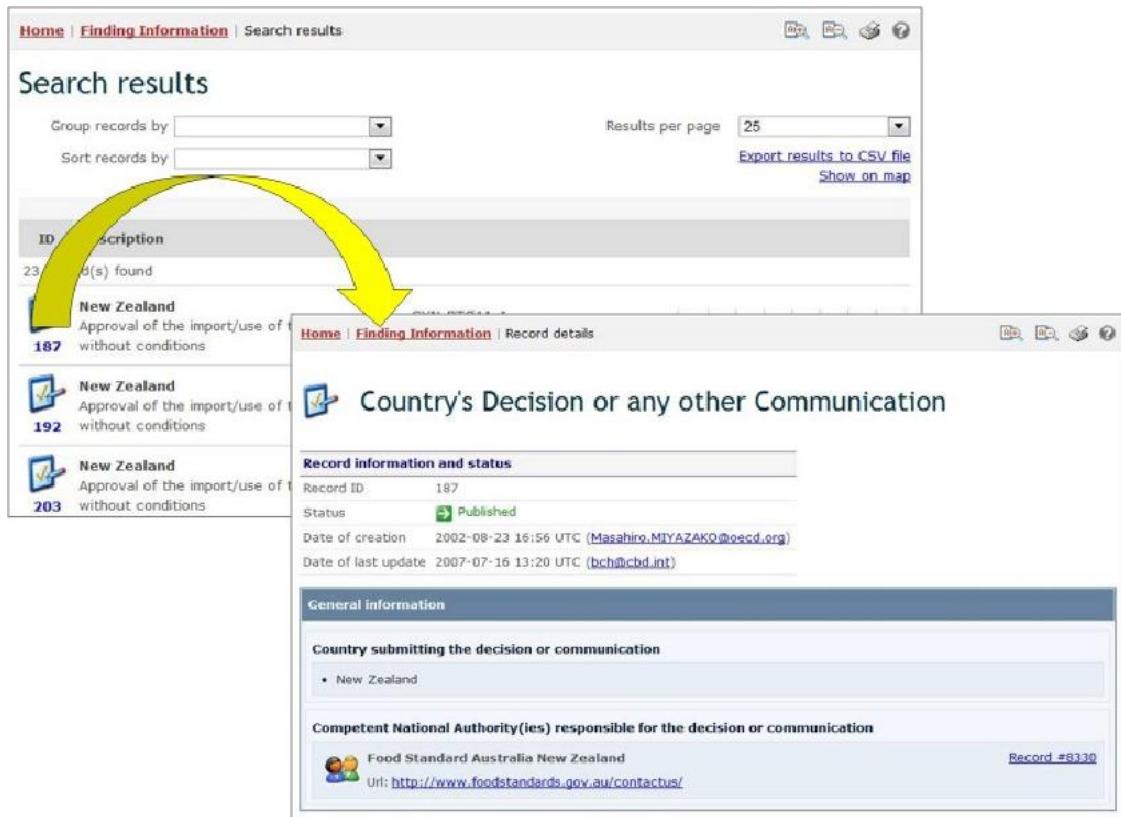


Figure 32

This picture was taken on January 2012 with the only purpose of providing an example on the usage of the BCH.

2.5 Roster of Experts

URL: <http://bch.cbd.int/database/experts/>

The Roster of Experts was established by the Conference of the Parties to the Convention on Biological Diversity (COP) when the Protocol was adopted (see Decision EM-I/3 and Decision BS-IV/4). Its purpose is “to provide advice and other support, as appropriate and upon request, to developing country Parties and Parties with economies in transition, to conduct risk assessment, make informed decisions, develop national human resources and promote institutional strengthening, associated with the transboundary movement of living modified organisms”.

The COP-MOP, the governing body of the Protocol, decided that access to the roster of experts will be maintained through the BCH, where nomination forms for the roster are available, so that Parties can nominate experts. According to Decision BS-IV/4 experts’ records are maintained on the roster for the period of four years from the last update of their information, after which they will be deleted from the roster unless re-nominated.

The search page for the Roster of Experts database can be accessed from the **Finding Information** drop-down menu on the navigation bar, or from the link in the left-hand menu of the **Finding Information** page or the Roster of

Experts link in the text of that page. These links take users to the **Search the Roster of Experts** page where they can search for biosafety experts nominated by Governments.

The screenshot shows the 'Biosafety Clearing-House' website. In the top navigation bar, there are links for Home, The BCH, The Protocol, Finding Information, Registering Information, Resources, Help, and Country Profiles... A green logo for the Convention on Biological Diversity is also present. The main content area has a sidebar titled 'Finding Information' with several categories: National Contacts, Laws and Regulations, Country's Decisions and other Communications, Roster of Experts (which is circled in red), LMOs, Genes or Organisms, National Reports, Capacity-Building, Organizations, The BCH Virtual Library, and Advanced Search. Below this is another 'Finding Information' section with links for National Contacts, Laws and Regulations, Country's Decisions and other Communications, Roster of Experts (circled in red), LMOs, Genes or Organisms, National Reports, Capacity-Building, Organizations, The BCH Virtual Library, and Advanced Search. The main content area contains text about the BCH and its various databases, followed by sections for Reference Records, LMOs, Genes or Organisms, Capacity-Building, and the Directory of International Organizations involved in Biosafety Activities. At the bottom left, there is a 'Go to record ID' input field and a 'Go' button.

Figure 33

On the **Search the Roster of Experts** page there are several search criteria boxes:

1. Country(ies): Selection list field for selecting a country or countries
2. Geographical region(s) or political/economic group(s): Selection list field for selecting geographical region(s) or political/economic group(s)
3. Type of document: Selection list to narrow search results to the specified type of document
4. Experts: Additional search criteria field to add more criteria regarding the experts to narrow the search results. By selecting items in this list, the user can make the following new fields appear:
 - a. Expert name: keyword field to search by expert name
 - b. Nationality: Selection list to narrow search results to experts of the specified nationality
 - c. Nominating country: Selection list to narrow search results to experts nominated by the specified country
5. Main area of expertise: Selection list to narrow search results to experts with the specified main area of expertise
6. Language(s) spoken: Selection list field to narrow search results to experts speaking the specified language(s)
7. Date of record: Selection list field for narrowing the search results to a specified time interval
8. Keyword search: Keyword field for narrowing the results by keyword(s)

See “Using the search pages” section to learn about types of fields and their operation.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Search »

Country(ies):	Select country(ies) <Any>	1
	Select geographical region(s) or political/economic group(s) <Any>	2
Type of document	<All>	3
Experts	<All>	4
Main area of expertise	<Any>	5
Language(s) spoken	<Any>	6
Date of record	<All>	7
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>	8

Browse all records » **Search »**

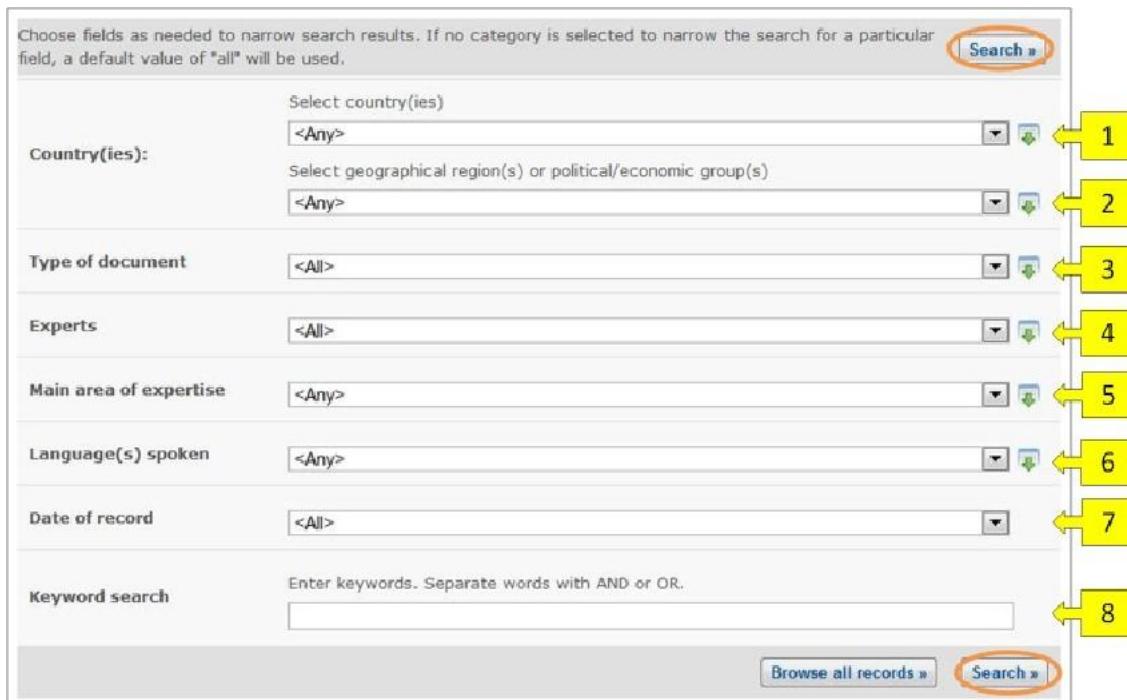


Figure 34

Example: A user wishes to identify experts from Europe who have experience in forestry and risk assessment. The user (i) selects Europe - All countries in the **Geographical region(s) or political/economic group(s)** box and (ii) enters forestry AND risk assessment in the **Keyword search** box.

Clicking on the **Search** button presents the search results. The search results are displayed as a list of records, sorted by country. Detailed information about each expert can be viewed by selecting the expert's name or record ID number, which opens the record.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Select country(ies)	
Country(ies):	<Any>
Select geographical region(s) or political/economic group(s)	
Europe - All countries	
Type of document	<All>
Experts	<All>
Main area of expertise	<Any>
Language(s) spoken	<Any>
Date of record	<All>
Keyword search	Enter keywords. Separate words with AND or OR. forestry AND risk assessment
<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>	

Figure 35

[Home](#) | [Finding Information](#) | Search results

Search results

Group records by Results per page Export results to CSV file
Sort records by Show on map

ID	Description
100041	Austria Biosafety Expert
100218	Czech Republic Biosafety Expert
102317	Lithuania Biosafety Expert
102273	Lithuania Biosafety Expert
100298	Norway Biosafety Expert

7 record(s) found

Dr. Helmut Gaugitsch

[Home](#) | [Finding Information](#) | Record details

Biosafety Expert

Record information and status

Record ID: 100041
Status: Published
Date of creation: 2008-11-06 21:51 UTC (michael.eckerstorfer@umweltbundesamt.at)
Date of last update: 2008-11-06 21:51 UTC (michael.eckerstorfer@umweltbundesamt.at)

General information

Nominating Government

- Austria

Profile of the Expert

Helmut Gaugitsch studied technical chemistry at the Technical University of Vienna, with graduation as PhD in biotechnology and food chemistry. He joined the Federal Environment Agency Austria in 1991 and worked on ecological risk assessment, monitoring and coexistence of genetically modified organisms (GMO) since. Presently he serves as Head of Unit Landuse & Biosafety at the Federal Environment Agency.
Main areas of work: Reviewing of European GMO notifications concerning the risk assessment and monitoring of GMOs, coordination and preparation of studies on environmental effects of GMOs, assistance development and implementation of national, regional and international Regulatory Frameworks for Biosafety, National Focal Point for the Cartagena Protocol, environmental effects of landuse, agriculture and forestry.

Figure 36

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

2.6 LMOs, Genes or Organisms

URL: <http://bch.cbd.int/database/organisms/>

The Secretariat maintains in the BCH the following three registries to assist users to access information regarding LMOs:

- **LMO-Unique Identifiers Registry (LMO-UIDs)**, which provides summary information on all living organisms registered in the BCH, including transformation events, genetic modifications, and the unique identification code (if available) for each record;
- **Gene Registry**, which provides summary information on gene inserts and characteristics of the genetic modification of LMOs, and
- **Organism Registry**, which provides summary information on parental, recipient or donor organisms related to the LMOs registered in the BCH

The search page for these registries can be accessed from the link **LMOs, Genes or Organisms** in the **Finding Information** drop-down menu on the navigation bar, or in the left-hand menu of the **Finding Information** page, or from the **LMOs, Genes or Organisms** link in the text of that page. The registries can also be accessed in a form of Compiled lists, which is covered in the “Compiled Information” section of this manual.

The screenshot shows the main navigation bar of the Biosafety Clearing-House website. The top bar includes links for Home, The BCH, The Protocol, Finding Information, Registering Information, Resources, Help, and Country Profiles... On the far right are Sign Up for an Account and Sign In links. Below the top bar, there's a banner for the Convention on Biological Diversity featuring a globe and some text. The main content area has a sidebar on the left with sections like Finding Information, Compiled Information, Laws and Regulations, and Country's Decisions and other Communications. The 'Finding Information' section is expanded, showing sub-links for National Contacts, Laws and Regulations, Country's Decisions and other Communications, Roster of Experts, and LMOs, Genes or Organisms. The 'LMOs, Genes or Organisms' link is highlighted with a red oval. The main content area contains text about the BCH and its registries. To the right of the sidebar, there are sections for Reference Records, Capacity-Building, and Directory of International Organizations involved in Biosafety Activities. The 'Reference Records' section also has a red oval around the 'LMOs, Genes or Organisms' link.

Figure 37

On the [Search for LMOs, Genes or Organisms](#) page there are several search criteria boxes:

1. **Registries:** Selection list field for selecting the registries in which to search for information. This allows the user to select what types of information (LMO-UIds, Genes or Organisms) are to be included in the search results.
2. **Type of living modified organism:** Additional search criteria field to add more criteria regarding LMOs to narrow the search results. Only records containing or referencing the specified LMO criteria will be returned. By selecting items in this list, the user can make the following new fields appear:
 - a. Unique Identifier: Selection list field to specify the unique identifier of the LMO.
 - b. LMO Identity: Keyword field to search for keywords in the identity part of the LMO records.
 - c. Technique: Selection list to narrow search results to records which match the selected techniques.
3. **Type of gene:** Additional search criteria field to add more criteria regarding genes to narrow the search results. Only records containing or referencing the specified gene criteria will be returned. Selecting items in this list will make the following new fields appear:
 - a. Gene: Selection list to select a specific gene name.
 - b. Introduced or modified traits: Selection list to narrow the search results to records which match the selected options.
4. **Type of organism:** Additional search criteria field to add more criteria regarding organisms to narrow the search results. Only records containing or referencing the specified organism criteria will be returned. Selecting items in this list will make the following new fields appear:
 - a. Recipient organism (common name): Selection list for specifying recipient organism by its common name.
 - b. Donor organism (common name): Selection list for specifying donor organism by its common name.
 - c. Recipient organism (scientific name): Selection list for specifying recipient organism by its scientific name.
 - d. Donor organism (scientific name): Selection list for specifying donor organism by its scientific name.
5. **Date of record:** Selection list field for narrowing the search results to a time interval.
6. **Keyword search:** Keyword field for narrowing the results by keyword(s).

See “Using the search pages” to learn about types of fields and their operation.

The screenshot shows the 'Search for LMOs, Genes or Organisms' page. On the left, there's a sidebar with sections like 'Finding Information' (National Contacts, Laws and Regulations, Roster of Experts, LMOs, Genes or Organisms, National Reports, Capacity-Building Organizations, The BCH Virtual Library, Advanced Search) and 'Compiled Information' (National Contacts, LMO Registry, Organism Registry, Gene Registry). Below these are fields for 'Go to record ID' and 'Go'.

The main area has a heading 'Search for LMOs, Genes or Organisms'. It includes a paragraph about searching the LMO-Unique Identifiers Registry, the Gene Registry, and the Organism Registry. Below this is a note about narrowing search results by selecting categories, with a 'Search' button circled in orange.

There are six search fields with dropdown menus and checkboxes:

1. Registries: <All>
2. Type of living modified organism: <All>
3. Type of gene: <All>
4. Type of organism: <All>
5. Date of record: <All>
6. Keyword search: Enter keywords. Separate words with AND or OR.

At the bottom right are 'Browse all records' and another 'Search' button circled in orange.

Figure 38

2.6.1 LMO-Unique Identifiers Registry

The **LMO-Unique Identifiers Registry** contains records that provide summary information on all LMOs registered in the BCH, including transformation events, genetic modifications, and the unique identification code (if available). The records also provide links to all decisions and risk assessment reports that refer to these LMOs.

To narrow search results to records in the LMO-Unique Identifiers Registry, select that option from the **Registries** field.

[Home](#) |
 [Finding Information](#) |
 LMOs, Genes or Organisms
 Print | Back | Help | ?

Search for LMOs, Genes or Organisms

On this page you can search: (i) The **LMO-Unique Identifiers Registry (LMO-UIDs)**, which provides summary information on all living modified organisms registered in the BCH including transformation events, genetic modifications, and the unique identification code (if available) for each record. Links to all decisions that refer to these organisms are provided at the bottom of each LMO record accessible through the registry; (ii) The **Gene Registry**, which provides summary information on gene inserts and characteristics of the genetic modifications of LMOs; and (iii) The **Organism Registry**, which provides summary information on parental, recipient or donor organisms related to the LMOs registered in the BCH.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.
 [Search »](#)

Registries	<input type="button" value="<All>"/> <input type="button" value="<All>"/> LMO-Unique Identifiers Registry (LMO-UIDs) <input type="button" value="Gene Registry"/> <input type="button" value="Organism Registry"/>
Type of living modified organism	<input type="button" value="<All>"/>
Type of gene	<input type="button" value="<All>"/>
Type of organism	<input type="button" value="<All>"/>
Date of record	<input type="button" value="<All>"/>
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>

[Browse all records »](#)
[Search »](#)

Figure 39

Once a record is selected from the registry (either from the search results or from the compiled information registry), its information is displayed on the screen. Three tabs at the top of each LMO record provide links to:

1. LMO Information
2. Decisions on the LMO, and
3. Risk Assessments

Figure 40

The **LMO Information** tab displays a page that provides the following information about the LMO:

- **LMO identity**, including LMO name, transformation event, Unique Identifier (when available); name of the developer(s) and link to its contact information; taxonomic name or status, common name(s) and point of collection or acquisition of the recipient organism or parental organisms; information about related LMOs;
- **Characteristics of the transformation process**, including vectors, techniques used for the modification, introduced or modified genetic elements and notes regarding the genetic elements present in the LMO;
- **LMO characteristics**, including modified traits, other gene(s) whose expression was affected by the transformation, LMO's common use(s),
- **Detection method(s)**, including links to external web-sites and documents and additional information;
- **Additional information** and links to other relevant web-sites and documents;
- Links to other records referencing the selected LMO.

Some of the information listed above is optional and may not be present in all records from the LMO-UIDs Registry,

The Decisions on the LMO tab displays all decisions taken by countries regarding this LMO in a table format. The first column of the table displays the country taking the decision, while the rest of the columns indicate which categories of use of the LMO have been addressed in the decision. If a decision from a country addresses a particular use of the LMO, then a green icon (or, in some cases, record ID) will appear in the column corresponding to that category of use; clicking on that icon (or record ID) will take the user to the record of the decision and display the information about it. If, for example, a country has taken a decision about domestic use of the LMO for food, then there will be a green icon under this category in the row corresponding to that country in the table.

Country	Domestic Use			Import			Environmental Release	Other
	Food	Feed	Processing	Food	Feed	Processing		
Canada								
United States of America								

Figure 41

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

The Risk Assessments tab provides a list of all records containing information about risk assessments regarding the LMO selected.

ID	Description
1 record(s) found	
Canada	
45462	Decision Document 97-20: Determination of the Safety of NatureMark Potatoes' Colorado Potato Beetle (CPB) Resistant Potato (<i>Solanum tuberosum</i> L.) Lines ATBT04-6, ATBT04-27, ATBT04-30, ATBT04-31 and ATBT04-36
	NMK-89170-9, NMK-89279-1, NMK-89367-8, NMK-89613-2, NMK-89761-6

Figure 42

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

Unique Identification

The BCH Central Portal uses a unique identification system for living modified organisms to facilitate searching and retrieval of information. Currently, the only existing unique identification system in international use is the OECD Unique Identifier for Transgenic Plants.

The OECD **Unique Identifier** is a simple alphanumeric code that is given to each living modified plant that is approved for commercial use, including for use as food or feed, similar to the ISBN codes used to identify books. The OECD naming system has been designed so that developers of a new transgenic plant can generate an identifier and include it in the dossiers that they forward to national authorities during the safety assessment process. Once approved, national authorities forward the unique identifier to the OECD Secretariat for inclusion in the OECD's product database, from which the information is automatically shared with the Biosafety Clearing-House.

The unique identifier is a nine-digit code, composed of three elements that are separated by dashes (-). These elements are:

1. 2 or 3 alphanumeric digits to designate the applicant;
2. 5 or 6 alphanumeric digits to designate the transformation event;
3. 1 numerical digit for verification (this is intended to reduce errors by ensuring the integrity of the alphanumeric code).

ID	Description
2 record(s) found	
14759	 ACS-BN005-8 InVigor™ canola
14839	 FLO-00066-8 Long vase life carnation

Figure 43

Two approaches are possible for products created with more than one transformation event (often referred to as "stacked" transformation events), where these transformation events have been previously approved for commercialization. An applicant may choose to generate a novel unique identifier for such products or they may choose to use a combination of the unique identifiers from products previously approved for commercialization.

For more information see Ready Reference Guide 11

2.6.2 Gene Registry

The **Gene Registry** contains records that provide summary information on gene inserts and characteristics of the genetic modifications of LMOs.

To narrow search results to records in the Gene Registry, select that option from the **Registries** field.

The screenshot shows a search interface for LMOs, Genes, or Organisms. At the top, there are links for Home, Finding Information, and LMOs, Genes or Organisms. To the right are icons for search, refresh, and help. Below the header is the title 'Search for LMOs, Genes or Organisms'. A descriptive text explains three categories: LMO-Unique Identifiers Registry (LMO-UIDs), Gene Registry, and Organism Registry. A note below says to choose fields as needed to narrow search results; if no category is selected, a default value of "all" will be used. On the left, there are three dropdown menus under 'Choose fields as needed to narrow search results': 'Registries' (with options <All>, <All>, LMO-Unique Identifiers Registry (LMO-UIDs), Gene Registry, and Organism Registry, where 'Gene Registry' is highlighted and circled in orange); 'Type of living modified organism' (with options <All>, LMO-Unique Identifiers Registry (LMO-UIDs), Gene Registry, and Organism Registry, where 'Gene Registry' is highlighted and circled in orange); and 'Type of gene' (with options <All>). On the right is a 'Search' button.

Figure 44

Once a record is selected from the registry (either from the search results or from the compiled information registry), its information is displayed on the screen. Records in this registry provide the following information:

- **General information**, including name of the gene or DNA sequence, category of DNA sequence, and whether the gene or DNA sequence is a synthetic molecule;
- Name of the **donor organism** and link to the page of this organism in the Organism Registry;
- **Characteristics of the protein coding sequence**, including name of the protein expressed by the coding sequence, its biological function, and related trait(s) or use(s) in biotechnology.
- **Additional information**, including links to other relevant web-sites or attached documents.
- Links to other records referencing the selected gene or DNA sequence.

Conventionally, gene names are written in italics and the proteins typically use the same name as the originating gene but in regular font. For example, the *cry1A(b)* gene produces the Cry1A(b) protein.

2.6.3 Organism Registry

The **Organism Registry** provides summary information on parental, recipient or donor organisms related to the LMOs registered in the BCH.

To narrow search results to records in the Organism Registry, select that option from the **Registries** field.

The screenshot shows a search interface for LMOs, Genes, or Organisms. At the top, there are links for Home, Finding Information, and LMOs, Genes or Organisms. To the right are icons for Print, Refresh, and Help. Below the header is a search bar with placeholder text: "Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used." A "Search" button is to the right of the search bar. The main area has four filter sections: "Registries" (dropdown showing <All>, LMO-Unique Identifiers Registry (LMO-uids), Gene Registry, and Organism Registry, with Organism Registry highlighted by a red oval), "Type of living modified organism" (<All>), "Type of gene" (<All>), and "Type of organism" (<All>). Each filter section includes a dropdown arrow and a green download icon.

Figure 45

Once a record is selected from the registry (either from the search results or from the compiled information registry), its information is displayed on the screen. Records in this registry provide the following information:

- **Organism information**, including scientific name, taxonomic classification and common name(s);
- Information on **additional classification**, including type of organism and status of its domestication;
- **Characteristics related to biosafety**, including centre(s) of origins and centre(s) of genetic diversity;
- Any **additional information** about organism and links to other relevant websites or attached documents; and
- Links to other records referencing the selected organism.

2.6.4 Example on searching the registries

Example: A user wishes to identify all the potato modifications that result in resistance to viruses. The user: (i) selects Filter by gene trait in the **Type of gene** box and then Resistance to diseases and pests – Viruses in the **Introduced or modified traits** box; and (ii) selects the Filter

by common name in the Type of organisms box and then selects Potato in the Recipient organism (common name) box.

Clicking on the **Search** button presents the search results, which are displayed as a list of records. Detailed information about each LMO can be viewed by clicking on the record ID number.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

[Search »](#)

Registries	<All>	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Type of living modified organism	<All>	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Type of gene	Filter by gene trait	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Introduced or modified traits	- Viruses	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Type of organism	Filter by common name	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Recipient organism (common name)	Potato	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Donor organism (common name)	<All>	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Date of record	<All>	<input type="button" value="▼"/>	
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>		
		Browse all records »	Search »

Figure 46

The screenshot shows the BCH Central Portal's search results interface. On the left, a table lists four entries under 'ID' and 'Description'. The first entry is highlighted with a yellow arrow pointing to its detailed view on the right. The detailed view shows the title 'Modified Organism' and the specific entry 'NMK-89185-6 - New Leaf™ Plus Russet Burbank potato'. It includes tabs for 'LMO Information', 'Decisions on the LMO', and 'Risk Assessments'. Under 'LMO Information', it shows the LMO ID (14897), status (Published), date of creation (2006-06-05 14:40 UTC), and date of last update (2010-11-04 16:01 UTC). The 'Living Modified Organism Identity' section shows the LMO name ('New Leaf™ Plus Russet Burbank potato') and the transformation event ('RBMT21-350').

Figure 47

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

2.7 National Reports

URL: <http://bch.cbd.int/database/reports/>

Under Article 33 of the Protocol, Parties are required to monitor implementation of their obligation under the Protocol and to report to the COP-MOP on measures taken to implement the Protocol. The COP-MOP adopted reporting formats for National Reports (Decisions BS-I/9, BS-III/14, BS-V/14) and requested the Secretariat to make the analysis of national reports available through the BCH (BS-IV/14). The COP-MOP also requested Parties (Decision BS-V/14) to submit their second regular national reports through the BCH or in the Microsoft Word form.

The search page for National Reports database can be accessed from the **Finding Information** drop-down menu on the navigation bar or from the link in the left-hand menu of the **Finding Information** page. These links take users to the **Search for National Reports** page where they can search for National Reports submitted by Governments.

Biosafety Clearing-House

Convention on Biological Diversity

Home The BCH The Protocol Finding Information Registering Information Resources Help Country Profiles...

Finding Information

- National Contacts
- Laws and Regulations
- Country's Decisions and other Communications
- Roster of Experts
- LMOs, Genes or Organisms
 - National Reports** (circled in red)
 - Capacity-Building
 - Organizations
 - The BCH Virtual Library
 - Advanced Search --
- Compiled Information
 - National Contacts
 - LMO Registry
 - Organism Registry
 - Gene Registry

Go to record ID Go

National Reports

Compiled Information

National Reports

Laws and Regulations

Country's Decisions and other Communications

Roster of Experts

Reference Records

LMOs, Genes or Organisms

Capacity-Building

Directory of International Organizations Involved in Biosafety Activities

The BCH Virtual Library

Figure 48

On the **Search for National Reports** page there are two main sections 1) View National Reports, and 2) Analyze National Reports.

Biosafety Clearing-House

Convention on Biological Diversity

Home The BCH The Protocol Finding Information Registering Information Resources Help Country Profiles...

Finding Information

- National Contacts
- Laws and Regulations
- Country's Decisions and other Communications
- Roster of Experts
- LMOs, Genes or Organisms
 - National Reports** (circled in red)
 - Capacity-Building
 - Organizations
 - The BCH Virtual Library
 - Advanced Search --
- Compiled Information
 - National Contacts
 - LMO Registry
 - Organism Registry
 - Gene Registry

2

Search for National Reports

Go to the [National Reports](#) page of the website.

View National Reports

Please select a country from the menu below to access its National Report. Links to Interim (2005), First (2007) and Second (2011) National Reports will appear whenever available after the selection.

<Select a country>

1

Analyze National Reports

For flexible and comprehensive analyses of the National Reports, please use one of the links in the box on the right for the Interim and First National Reports or the tool below for the Second National Report.

Second National Report

• [Interim National Report](#) ↗

• [First National Report](#) ↗

Figure 49

View National Reports section contains a selection list to narrow search results to reports submitted by specified country. After selecting a country from the menu, information about its Interim, First and Second National Reports will appear below the selection list field. It includes availability of the reports, language(s), and document format(s). Clicking the icon of the available document format will open the selected report (PDF and HTML formats) or initiate its downloading (Microsoft Word format).

The screenshot shows a web interface for searching national reports. At the top, there's a navigation bar with links to Home, Finding Information, and a search field for National Reports. Below this is a section titled 'Search for National Reports' with a sub-instruction: 'Go to the [National Reports](#) page of the website.' Underneath is a heading 'View National Reports' with a note: 'Please select a country from the menu below to access its National Report. Links to Interim (2005), First (2007) and Second (2011) National Reports will appear whenever available after the selection.' A dropdown menu is open, showing 'Ghana' as the selected option, which is circled in red. To the right, the 'Record details' panel is displayed for the 'Second Regular National Report on the Implementation of the Cartagena Protocol on Biosafety'. This panel includes sections for Record number (102381), Status (Published), Date of creation (2011-09-29 13:00 UTC), Date of last update (2011-09-29 13:00 UTC), Origin of report (Country: Ghana), and Contact officer for report (Mr Eric Amaning Okorze, Deputy Director - BCH National Focal Point, Ministry of Environment, Science and Technology (MEST), P. O. Box M232). A yellow arrow points from the 'Type of report' table to the 'Record details' panel.

Figure 50

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

In the **Analyze National Reports** section the user will find the Analyzer for Second National Reports and links to access Analyzers for Interim and First National Reports. Analyzer is an electronic facility which is intended to assist users to aggregate and analyse data according to selected Parties, geographic areas, economic groups and other criteria.

Results of the Second National Report can be analyzed by selecting:

1. countries or geographical areas from the selection list field **Geographical areas**. By default all countries are selected and grouped by CBD regions;
2. sections of the report from the list located below the **Geographical areas** box. By default all sections and questions are selected.
3. questions of the report presented by sections. To select questions the user should click on the triangle icon located to the right of each section.

Selecting the **Analyze** button calls up the search results presented in tables.

Analyze National Reports

For flexible and comprehensive analyses of the National Reports, please use one of the links in the box on the right for the Interim and First National Reports or the tool below for the Second National Report.

- [Interim National Report](#)
- [First National Report](#)

Second National Report

This tool allows you to select sections/questions of interest, cross-compare results by region/country, visualize counts/averages, etc.

Analyze results of the 2nd national report by selecting:

- one or more countries or geographical areas (by default all countries are selected and grouped by CBD regions), and/or
- questions and/or sections of the report (by default all sections and questions are selected)

Geographical areas **Breakdown by CBD regions**

All questions and/or sections of the report 1

Party to the Cartagena Protocol on Biosafety 2

Article 2 – General provisions 3

Article 5 – Pharmaceuticals

Article 6 – Transit and Contained use

Figure 51

Example: A user wishes to analyze second national reports submitted by Central Asian countries, in particular questions 15 and 16 (**General Provisions** section, Article 2). The user (i) selects Select countries or regions in the **Geographical areas** box, (ii) selects Asia – Central Asia from the **Geographical region(s) or political/economic groups** selection list, (iii) removes a tick from the **All questions and/or sections of the report** row, (iv) clicks on the triangle icon to the right of the **Article 2 – General provisions** section, and (iv) selects questions 15 and 17 from the list of questions.

Clicking on the **Analyze** button opens a page with the search results. The results of the analysis are displayed in tables, where questions and answers to them are presented in rows and selected region and countries - in columns. The user can define representation of data (e.g. count of responses, percentage by row or column) by selecting it from the selection list located in the right top corner of the page or by clicking on the summary icon next to the question number. Clicking on a country's name will open the second national report of that country.

Second National Report

This tool allows you to select sections/questions of interest, cross-compare results by region/country, visualize counts/averages, etc.

Analyze results of the 2nd national report by selecting:

- one or more countries or geographical areas (by default all countries are selected and grouped by CBD regions), and/or
- questions and/or sections of the report (by default all sections and questions are selected)

Geographical areas Select countries or regions

Select country(ies) <Any>

Country(ies): Select geographical region(s) or political/economic group(s) Asia - Central Asia

All questions and/or sections of the report

Party to the Cartagena Protocol on Biosafety

Article 2 – General provisions

Question 15. Has your country introduced the necessary legal, administrative and other measures for the implementation of the Protocol?

Question 16. Which specific instruments are in place for the implementation of your national biosafety framework?

Question 17. Has your country established a mechanism for the budgetary allocations of funds for the operation of its national biosafety framework?

Figure 52



Figure 53

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

2.8 Capacity-Building

URL: <http://bch.cbd.int/database/activities/>

Under Article 22 of the Protocol, Parties are required to cooperate in the developing and/or strengthening of human resources and institutional capacity for the effective implementation of the Protocol. Through the BCH, Parties and others can access information about capacity-building and other assistance for implementation of the Protocol. In addition, governments can register their capacity-building needs and priorities in the BCH.

The search page for information about capacity-building can be accessed from the link on the **Finding Information** drop-down menu on the navigation bar, or from the link in the left-hand menu of the **Finding Information** page, or from the Capacity Building link in the text of that page.

The screenshot shows the 'Biosafety Clearing-House' website. At the top, there's a banner with the Convention on Biological Diversity logo and a globe. Below the banner is a navigation bar with links: Home, The BOH, The Protocol, Finding Information, Registering Information, Resources, Help, and Country Profiles... A dropdown menu for 'Finding Information' is open, showing several categories: National Contacts, Laws and Regulations, Country's Decisions and other Communications, Roster of Experts, LMOs, Genes or Organisms, National Reports, Capacity-Building, Organizations, The BCH Virtual Library, and Compiled Information. The 'Capacity-Building' link is circled in red. The main content area has a heading 'Capacity-Building' followed by a detailed description of what it contains. To the right, there are sections for 'Reference Records' (with links to LMOs, Genes or Organisms and Capacity-Building), 'The BCH Virtual Library', and 'Directory of International Organizations involved in Biosafety Activities'.

Figure 54

On the **Search for information on Capacity-Building** page the user can search for:

- Biosafety Capacity-Building Projects;
- Capacity-Building Opportunities;
- Capacity- Building Needs and Priorities;
- Academically-Accredited Biosafety Courses.

On the **Search for information on Capacity-Building** page there are several search criteria boxes:

1. Country(ies): Selection list fields for selecting a country or countries.
2. Geographical region(s) or political/economic groups: Selection list field for selecting geographical region(s) or political/economic group(s).
3. Capacity building categories: Selection list to narrow search results to records regarding specific categories of capacity building.
4. Project, Opportunities, Needs and Priorities: Additional search criteria field to add more criteria to narrow the search results. By selecting items in this list, the user can make the following new fields appear:
 - a. Name of the project: keyword field for searching by project name
 - b. Capacity Building areas: Selection list for narrowing the search results by capacity building area
 - c. Type of implementing agency: Selection list for narrowing the search results to records matching the specified types of implementing agency
 - d. Lead organization: Keyword field for searching by organization
5. Training offered: Additional search criteria field to add more criteria to narrow the search results. By selecting items in this list, the user can make the following new fields appear:
 - a. Type of training: Selection list for narrowing the search results to the specified types of offered trainings
 - b. Type of accreditation: Selection list for narrowing the search results to the specified type of accreditation offered
6. Date of record: Selection list field for narrowing the search results to a time interval
7. Keyword search: Keyword field for narrowing the results by keyword(s)

See “Using the search pages” to learn about types of fields and their operation and “Managing search results” to learn about features to manage search results.

Finding Information <ul style="list-style-type: none"> National Contacts Laws and Regulations Country's Decisions and other Communications Roster of Experts LMOs, Genes or Organisms National Reports Capacity-Building Organizations The BCH Virtual Library -- Advanced Search -- 	<p>Home Finding Information Capacity-Building</p> <p>Search for information on Capacity-Building</p> <p>On this page you can search for: (i) Biosafety Capacity Building Projects, which contains information on project status and location, lead organization(s) and contacts, objectives and activities, lessons learned, a brief description of each project and web links for detailed information; (ii) Capacity-Building Opportunities, which includes information on one-time, short-term capacity building opportunities, such as: funding grants, scholarships and fellowships, technical assistance, training workshops, internships/apprenticeships, study tours, partnerships, discussion forums and others; (iii) Compendium of Academically-Accredited Biosafety Courses, which includes a listing of recurrent academically-accredited biosafety education and training programs offered around the world.; (iv) Capacity-Building Needs and Priorities, which includes the capacity requirements of Parties for the implementation of the Biosafety Protocol, identified and categorized in line with the elements of the Capacity-building Action Plan.</p> <p>Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.</p> <p style="text-align: right;"><input type="button" value="Search »"/></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">Select country(ies)</td> <td style="width: 85%;"><input type="button" value="Select country(ies)"/></td> <td style="width: 10%; text-align: right;">1</td> </tr> <tr> <td>Country(ies):</td> <td><input type="button" value="<Any>"/></td> <td style="text-align: right;">2</td> </tr> <tr> <td>Select geographical region(s) or political/economic group(s)</td> <td><input type="button" value="Select geographical region(s) or political/economic group(s)"/></td> <td style="text-align: right;">3</td> </tr> <tr> <td>Capacity building categories</td> <td><input type="button" value="<All>"/></td> <td style="text-align: right;">4</td> </tr> <tr> <td>Project, Opportunities, Needs and Priorities</td> <td><input type="button" value="<All>"/></td> <td style="text-align: right;">5</td> </tr> <tr> <td>Training offered</td> <td><input type="button" value="<All>"/></td> <td style="text-align: right;">6</td> </tr> <tr> <td>Date of record</td> <td><input type="button" value="<All>"/></td> <td style="text-align: right;">7</td> </tr> <tr> <td>Keyword search</td> <td colspan="2">Enter keywords. Separate words with AND or OR.</td> </tr> <tr> <td></td> <td style="text-align: right;"><input type="button" value="Browse all records »"/> <input type="button" value="Search »"/></td> <td style="text-align: right;"><input type="button" value="Search »"/></td> </tr> </table>	Select country(ies)	<input type="button" value="Select country(ies)"/>	1	Country(ies):	<input type="button" value="<Any>"/>	2	Select geographical region(s) or political/economic group(s)	<input type="button" value="Select geographical region(s) or political/economic group(s)"/>	3	Capacity building categories	<input type="button" value="<All>"/>	4	Project, Opportunities, Needs and Priorities	<input type="button" value="<All>"/>	5	Training offered	<input type="button" value="<All>"/>	6	Date of record	<input type="button" value="<All>"/>	7	Keyword search	Enter keywords. Separate words with AND or OR.			<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>	<input type="button" value="Search »"/>
Select country(ies)	<input type="button" value="Select country(ies)"/>	1																										
Country(ies):	<input type="button" value="<Any>"/>	2																										
Select geographical region(s) or political/economic group(s)	<input type="button" value="Select geographical region(s) or political/economic group(s)"/>	3																										
Capacity building categories	<input type="button" value="<All>"/>	4																										
Project, Opportunities, Needs and Priorities	<input type="button" value="<All>"/>	5																										
Training offered	<input type="button" value="<All>"/>	6																										
Date of record	<input type="button" value="<All>"/>	7																										
Keyword search	Enter keywords. Separate words with AND or OR.																											
	<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>	<input type="button" value="Search »"/>																										

Figure 55

Example: A user wishes obtain information about capacity-building courses in Central and Eastern Europe. The user selects (i) CBD Regional Groups – Central and Eastern Europe in the **Geographical region(s) or political/economic group(s)** box and (ii) Academically-Accredited Biosafety Courses in the **Capacity building categories** box. Clicking on the **Search** button presents the search results. Information about each of these activities can be accessed by clicking on the record title or ID number.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Search »

Country(ies):	Select country(ies) <Any>	<input type="button" value="▼"/> <input type="button" value="▼"/>
Capacity building categories	Select geographical region(s) or political/economic group(s) CBD Regional Groups - Central and Eastern Europe	<input type="button" value="▼"/> <input type="button" value="▼"/>
Project, Opportunities, Needs and Priorities	Academically-Accredited Biosafety Courses	<input type="button" value="▼"/> <input type="button" value="▼"/>
Training offered	<All>	<input type="button" value="▼"/> <input type="button" value="▼"/>
Date of record	<All>	<input type="button" value="▼"/>
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>	
Browse all records » Search »		

Figure 56

Home | Finding Information | Search results

Search results

Group records by Sort records by Results per page **25** Export results to CSV file Show on map

ID	Description
103030	Capacity Building Activities, Projects and Opportunities Courses in Agricultural Biotechnology that include GMO and Biosafety issues Courses Cycle I – higher bachelor studies Plant Biotechnologies (Agricultural
103035	Capacity Building Activities, Projects and Opportunities Courses in Agricultural Biotechnology that include GMO and Biosafety issues Courses Cycle I – higher bachelor studies Plant Biotechnologies (Agricultural

Capacity Building Activities, Projects and Opportunities

Record information and status

Record ID: 103030 Status: Published Date of creation: 2012-01-25 12:41 UTC (galinacomarova@gmail.com) Date of last update: 2012-01-25 12:41 UTC (galinacomarova@gmail.com)

General Information

Title of the initiative: Courses in Agricultural Biotechnology that include GMO and Biosafety issues

Contact person: PhD Galina Comarova Associate Professor Agronomy Faculty Record #103030



Figure 57

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

2.9 Organizations

URL: <http://bch.cbd.int/database/organizations/>

The worldwide and multidisciplinary nature of the Protocol provides a wide stakeholder base for its implementation, extending beyond its Parties. Accordingly, the BCH maintains a database of organizations that are involved in biosafety-related issues.

The search page for information about **Organizations** can be accessed from the **Finding Information** drop-down menu on the navigation bar, or from the link in the left-hand menu of the **Finding Information** page or from the **Directory of International Organizations involved in Biosafety Activities** link in the text of that page.

The screenshot shows the 'Biosafety Clearing-House' website. At the top, there's a banner with the Convention on Biological Diversity logo and a globe. Below the banner, the navigation bar includes links for Home, The BCH, The Protocol, Finding Information, Registering Information, Resources, Help, and Country Profiles... A dropdown menu for 'Finding Information' is open, showing several categories: National Contacts, Laws and Regulations, Country's Decisions and other Communications, Roster of Experts, LMOs, Genes or Organisms, National Reports, Capacity-Building, and Organizations. The 'Organizations' link is circled in red. To the right of the dropdown, the main content area has a heading 'Reference Records'. Under this heading, there are sections for 'LMOs, Genes or Organisms', 'Capacity-Building', and 'Directory of International Organizations involved in Biosafety Activities'. The 'Directory of International Organizations involved in Biosafety Activities' link is also circled in red. The overall layout is clean with a green and blue color scheme.

Figure 58

This search page allows users to access information about organizations involved in biosafety and includes summaries of the activities of these organizations and their contact information.

On the **Search for Organizations involved in Biosafety Activities** page there are several search criteria boxes:

- **Country(ies)**: Selection list field for selecting a country or countries
- **Geographical region(s) or political/economic group(s)**: Selection list field for selecting geographical region(s) or political/economic group(s)
- **Organization name**: Keyword field for searching by organization name
- **Contact name**: Keyword field for searching by organization contact
- **Type of organization**: Selection list to narrow search results to organization of the specified types
- **Regional Area(s) of Operations**: Selection list field to narrow search results to specified regional area(s) of operation
- **Date of record**: Selection list field for narrowing the search results to a time interval
- **Keyword search**: Keyword field for narrowing the results by keyword(s)

See “Using the search pages” to learn about types of fields and their operation.

The screenshot shows the 'Search for Organizations involved in Biosafety Activities' page. On the left is a sidebar with links like 'Finding Information' (National Contacts, Laws and Regulations, etc.), 'Compiled Information' (National Contacts, LMO Registry, etc.), and a 'Go to record ID' input field. The main content area has a title 'Search for Organizations involved in Biosafety Activities'. Below it is a note about international organizations and a message to choose fields. A 'Search' button is circled in red at the top right. The search form includes fields for 'Country(ies)', 'Geographical region(s) or political/economic group(s)', 'Organization name', 'Contact name', 'Type of organization', 'Regional Area(s) of Operations', 'Date of record', and 'Keyword search'. A 'Browse all records' button is at the bottom left, and another 'Search' button is at the bottom right. Yellow arrows numbered 1 through 8 point to each of the eight search criteria fields from left to right.

Figure 59

Example: A user wishes to identify government organizations that work with farmers. The user: (i) selects Government agency in the **Type of organization** box and (ii) types farmer OR agriculture into the **Keyword search** box. Clicking on the **Search** button presents the search results, which indicate a number of organizations.

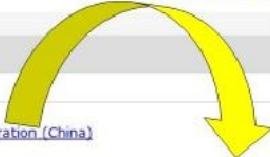
Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

[Search »](#)

Country(ies):	Select country(ies) <Any>	▼
Organization name	<input type="text"/>	
Contact name	<input type="text"/>	
Type of organization	Government agency	▼
Regional Area(s) of Operations	<All>	
Date of record	<All>	
Keyword search	Enter keywords. Separate words with AND or OR. farmer OR agriculture	
Browse all records » Search »		

Figure 60

[Home](#) | [Finding Information](#) | Search results



Search results

Group records by Results per page 25
Sort records by Export results to CSV file
[Show on map](#)

ID	Description
10 record(s) found	
15893	Organization State Environmental Protection Administration (China) Government agency
15904	Organization US Depart - Bureau Government
15906	Organization Danish Ins Government
15933	Organization National I Government

[Home](#) | [Finding Information](#) | Record details

Organization

Record information and status

Record ID: 15893
Status: Published
Date of creation: 2006-08-23 14:16 UTC ([philippe.leblond@cbd.int](#))
Date of last update: 2008-10-30 14:39 UTC ([mina.hirai@cbd.int](#))

General information

Name of the Organization
State Environmental Protection Administration (China)

Coordinates
Coordinates

Figure 61

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

To change the search to projects linked to the private sector, the user selects Private sector (business and industry) in the type of organization box.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used. [Search »](#)

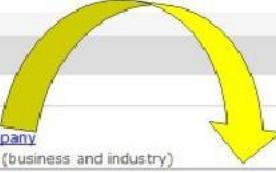
Country(ies):	Select country(ies) <input type="text" value="<Any>"/>
Organization name	<input type="text"/>
Contact name	<input type="text"/>
Type of organization	<input checked="" type="text" value="Private sector (business and industry)"/>
Regional Area(s) of Operations	<input type="text" value="<All>"/>
Date of record	<input type="text" value="<All>"/>
Keyword search	Enter keywords. Separate words with AND or OR. <input type="text"/>
Browse all records » Search »	

Figure 62

Home | Finding Information | Search results [Print](#) [Email](#) [Help](#) [?](#)

Search results

ID	Description
10 record(s) found	
 Organization 15867	Monsanto Company Private sector (business and industry)
 Organization 15868	Novartis I...
 Organization 15970	Canada G...
 Organization 15987	Agricultur...
 Organization 15997	Biotechno...



[Home](#) | [Finding Information](#) | Record details

Organization

Record information and status

Record ID: 15867
 Status: Published
 Date of creation: 2006-08-23 14:10 UTC ([philippe.leblond@cbd.int](#))
 Date of last update: 2010-11-26 17:09 UTC ([andrew.bowers@cbd.int](#))

General information

Name of the Organization: Monsanto Company

Coordinates

Figure 63

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

2.10 The BCH Virtual Library

URL: <http://bch.cbd.int/database/library.shtml>

Article 20 of the Protocol establishes the BCH to facilitate the exchange of information and experience with LMOs among Parties in order to assist them in implementing the Protocol. To help fulfill this role, the BCH provides access to different categories of information relevant to biosafety and implementation of the Protocol through its Virtual Library.

The search page for the BCH Virtual Library can be accessed from the **Finding Information** drop-down menu on the navigation bar, or from the link in the left-hand menu of the **Finding Information** page, or from the BCH Virtual Library link in the text of that page.



Figure 64

On the **BCH Virtual Library** page the user can find links to the following collections:

1. Biosafety Information Resource Centre (BCH-BIRC)
2. Scientific Bibliographic Database on Biosafety (Bibliosafety)
3. Research4Life

Finding Information

- National Contacts
- Laws and Regulations
- Country's Decisions and other Communications
- Roster of Experts
- LMOs, Genes or Organisms
- National Reports
- Capacity-Building
- Organizations
- The BCH Virtual Library
- Advanced Search --

Compiled Information

- National Contacts
- LMO Registry
- Organism Registry
- Gene Registry

[Home](#) | [Finding Information](#) | The BCH Virtual Library EN ES FR PT

The BCH Virtual Library

Through its virtual library, the Biosafety Clearing-House provides access to different categories of information aimed to assist countries in capacity-building for implementation of the Protocol. The library provides access to the following collections:

Collections with special focus on biosafety

The Biosafety Information Resource Centre (BCH-BIRC) is managed by the Secretariat of the Convention on Biological Diversity (SCBD) and provides access to electronic catalogues of biosafety-related publications and information resources including: news services; e-mail list-servers; online databases and search engines; reports and case studies; journals and newsletters; and teaching materials (manuals, toolkits and presentations). Its objective is to increase accessibility to available biosafety information and resources developed by policymakers, educators, researchers and the general public.

* [Search the BCH-BIRC](#) > 1

The Scientific Bibliographic Database on Biosafety (Biosafety) provides access to a bibliographic collection of scientific studies relevant to biosafety and risk assessment of biotechnology featuring records from CAB ABSTRACT database and maintained by the International Centre for Genetic Engineering and Biotechnology (ICGEB). This searchable database is updated monthly and contains records of scientific articles (full reference + abstract) published in national and international scientific periodicals from 1990 onwards. Each record is vetted by ICGEB scientists for its contribution to the numerous scientific debates concerning Genetically Modified Organisms (GMOs).

* [Search Biosafety](#) > 2

Collections with focus on health, agriculture or environment

3

research4life is the collective name for four public-private partnerships (**HINARI**, **AGORA**, **OARE** and **ARDI**) which provides institutions from [eligible developing countries](#) with free or low cost online access to academic and professional peer-reviewed content.

Figure 65

2.10.1 Biosafety Information Resource Centre

URL: <http://bch.cbd.int/database/resources/>

The **BCH Biosafety Information Resource Centre** (BCH-BIRC) is managed by the Secretariat and contains electronic catalogues of biosafety-related publications and information resources for policymakers, educators, researchers, and the general public. BIRC records may be registered by all BCH account-holders.

The search page for the BCH-BIRC can be accessed from the **Search the BCH-BIRC** link in the text of the **BCH Virtual Library** page.

The BCH-BIRC enables users to access electronic catalogues of biosafety-related publications and information resources as follows:

- News services (including email listservers);
- Online databases and search engines
- Reports and case studies
- Journals
- Newsletters
- Teaching materials (including manuals, toolkits and presentations)

On the **Search the Biosafety Information Resource Centre (BIRC)** page there are several search criteria boxes:

1. **Publication year:** Selection lists to narrow search results by year of publication. The first selection list specifies whether resources published earlier or later than the date specified in the second box are to be considered. If any of the two selection lists is left empty, then this field will not narrow the search results.
2. **Thematic area:** Selection list to narrow the search results to resources regarding the specified subjects.
3. **Type of record:** Selection list to specify the types of resources to be included in the search results.
4. **Language:** Selection list to narrow the search results to resources in the specified languages.
5. **Date of record:** Selection list field for narrowing the search results to a time interval
6. **Keyword search:** Keyword field for narrowing the results by keyword(s)

See “Using the search pages” to learn about types of fields and their operation.

The screenshot shows the "Search the Biosafety Information Resource Centre (BIRC)" page. On the left, there are two vertical menus: "Finding Information" and "Compiled Information". The main content area has a heading "Search the Biosafety Information Resource Centre (BIRC)". Below it is a paragraph of text about the purpose of the site. A note says "Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of 'all' will be used." There are six search criteria fields, each with a dropdown menu set to "<All>":

- Publication year (highlighted with a yellow arrow labeled 1)
- Thematic area
- Type of record
- Language
- Date of record
- Keyword search (highlighted with a yellow arrow labeled 6)

At the bottom right of the search form are two buttons: "Browse all records" and "Search" (highlighted with a red oval). The entire search form is highlighted with a large red oval.

Figure 66

Example: A user wishes to identify articles written after 2009 about liability issues. The user selects (i) later than and 2009 in the publication year boxes and (ii) Liability and redress in the Thematic area box. Clicking on the **Search** button calls up the search results.

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Publication year	Later than	2009	<input type="button" value="Search »"/>
Thematic area	- Liability and redress		
Type of record	<All>		
Language	<All>		
Date of record	<All>		
Keyword search	Enter keywords. Separate words with AND or OR.		
<input type="button" value="Browse all records »"/> <input type="button" value="Search »"/>			

Figure 67

[Home](#) | [Finding Information](#) | Search results

Search results

Group records by Results per page Export results to CSV file
Sort records by Show on map

ID	Description
20 record(s) found	
101005	Biosafety Information Resource Educational film "Do you know what is GMO?" Ministry of Environment together with UNEP/GEF project "Implementation of the National Biosafety Framework in Kenya." View details
101286	Biosafety Information Resource Traditional breeding techniques, the plants/varieties View details
101427	Biosafety Information Resource Implications of Cartagena Protocol This study involves requirements of Kenya. View details
101463	Biosafety Information Resource Technological (RIS) Discussion Abstract: New new requirements View details



[Home](#) | [Finding Information](#) | Record details

Biosafety Information Resource

Record information and status

Record ID: 101005
Status: Published
Date of creation: 2010-03-04 14:37 UTC ([g.blazauskienė@iam.lt](#))
Date of last update: 2010-03-04 14:37 UTC ([g.blazauskienė@iam.lt](#))

General Information

Title
Educational film "Do you know what is GMO?"

Author
Ministry of Environment

Figure 68

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

2.10.2 Scientific Bibliographic Database

URL: <http://bch.cbd.int/database/bibliographic-references/>

In addition to the Biosafety Information Resource Centre, the BCH provides access to a bibliographic collection of scientific articles (full reference + abstract), published in national and international scientific periodicals from 1990 onwards, that are relevant to biosafety and risk assessment of biotechnology. The ***Scientific Bibliographic Database*** is hosted and managed by the International Centre for Genetic Engineering and Biotechnology (ICGEB) and has been made interoperable with the BCH.

The BCH search page for publications in the Scientific Bibliographic Database (Biosafety) can be accessed using the link **Search Biosafety** in the text of the **BCH Virtual Library** page.

On the **Search the Scientific Bibliographic Database on Biosafety** page there are several search criteria boxes:

1. **Title:** Keyword field to search by publication title
2. **Authors(s):** Keyword field to search by authors
3. **Publication year:** Selection lists to narrow search results by year of publication. The first selection list specifies whether resources published earlier or later than the date specified in the second box are to be considered. If any of the two selection lists is left empty, then this field will not narrow the search results
4. **Date of record:** Selection list field for narrowing the search results to a time interval
5. **Keyword search:** Keyword field for narrowing the results by keyword(s)

See “Using the search pages” to learn about types of fields and their operation.

Finding Information

- National Contacts
- Laws and Regulations
- Country's Decisions and other Communications
- Roster of Experts
- LMOs, Genes or Organisms
- National Reports
- Capacity-Building
- Organizations
- The BCH Virtual Library
- Advanced Search --

Compiled Information

- National Contacts
- LMO Registry
- Organism Registry
- Gene Registry

Go to record ID: Go

Search the Scientific Bibliographic Database on Biosafety

On this page you can search **Biosafety**: a bibliographic collection of scientific studies relevant to biosafety and risk assessment of biotechnology featuring records from CAB ABSTRACT database and maintained by the International Centre for Genetic Engineering and Biotechnology (ICGEB). This searchable database is updated monthly and contains records of scientific articles (full reference + abstract) published in national and international scientific periodicals from 1990 onwards. Each record is vetted by ICGEB scientists for its contribution to the numerous scientific debates concerning Genetically Modified Organisms (GMOs).

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Search Fields:

- 1. Title:
- 2. Author(s):
- 3. Publication year: <All>
- 4. Date of record: <All>
- 5. Keyword search: Enter keywords. Separate words with AND or OR.

Figure 69

Example: A user wishes to identify scientific articles on gene flow from crops written after 2008. The user selects (i) later than 2008 in the publication year boxes and (ii) enters gene flow OR outcrossing in the **Keyword search**.

Home | Finding Information | Scientific Bibliographic Database

Search the Scientific Bibliographic Database on Biosafety

On this page you can search **Biosafety**: a bibliographic collection of scientific studies relevant to biosafety and risk assessment of biotechnology featuring records from CAB ABSTRACT database and maintained by the International Centre for Genetic Engineering and Biotechnology (ICGEB). This searchable database is updated monthly and contains records of scientific articles (full reference + abstract) published in national and international scientific periodicals from 1990 onwards. Each record is vetted by ICGEB scientists for its contribution to the numerous scientific debates concerning Genetically Modified Organisms (GMOs).

Choose fields as needed to narrow search results. If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

Search Fields:

- Title:
- Author(s):
- Publication year:
- Date of record: <All>
- Keyword search: Enter keywords. Separate words with AND or OR.

gene flow OR outcrossing

Figure 70

The screenshot shows the BCH search results interface. At the top, there are search filters for 'Group records by' and 'Sort records by', and options to 'Results per page' (set to 25), 'Export results to CSV file', and 'Show on map'. Below this, a table lists 19 records under 'ID' and 'Description'. A yellow arrow points to the detailed view of record 49570, which is titled 'Detection and quantification of 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) upon Brassica napus x Brassica juncea outcrossing using real-time PCR'. The detailed view includes sections for 'Record information and status' (Record ID 49570, Published, creation date 2009-10-05, last update 2009-11-12), 'General information' (Title: Detection and quantification of 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) upon Brassica napus x Brassica juncea outcrossing using real-time PCR), and 'Author / Creator' (Song XiaoLing, Munns, K., Qiang Sheng, Blackshaw, R., Ranjana Sharma).

Figure 71

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

Assuming that the user finds a useful article by a certain author , the search can be refined by adding the author's name to the **Author(s)** search box. This will narrow the search results to recent articles by the same author regarding this subject.

2.10.3 Research4Life Database

The BCH also provides access to collections with focus on health, agriculture or environment within the Research4Life database. Research4Life is the collective name for four public-private partnerships which provides institutions from eligible developing countries with free or low cost online access to academic and professional peer-reviewed content:

- HINARI – focuses on medicine, nursing and related health and social sciences, and is managed by World Health Organization (WHO) and Yale University Library;
- AGORA – focuses on agriculture, fisheries, food, nutrition, veterinary science and related sciences, and is managed by Food and Agriculture Organization (FAO) and Cornell University Library;
- OARE- focuses on natural environment, including environmental toxicology, pollution and related sciences and is managed by UNEP and Yale University Library;

- ARDI – focuses on scholarly literature in technical fields, such as biotechnology, medical technology and computing, and is managed by World Intellectual Property Organization (WIPO).

By following the links in the **Research4Life** section of the **BCH Virtual Library** page the user can access:

1. Research4Life web-site with information about the partnership, its programs, news, case studies, etc.
2. HINARI, AGORA, OARE, and ARDI web-sites with information about these programs, search pages, promotional materials, etc.
3. Web-sites of the Research4Life partners
4. Links to pages where you can register your institution
5. Direct links to search pages of HINARI, AGORA, OARE and ARDI programs.

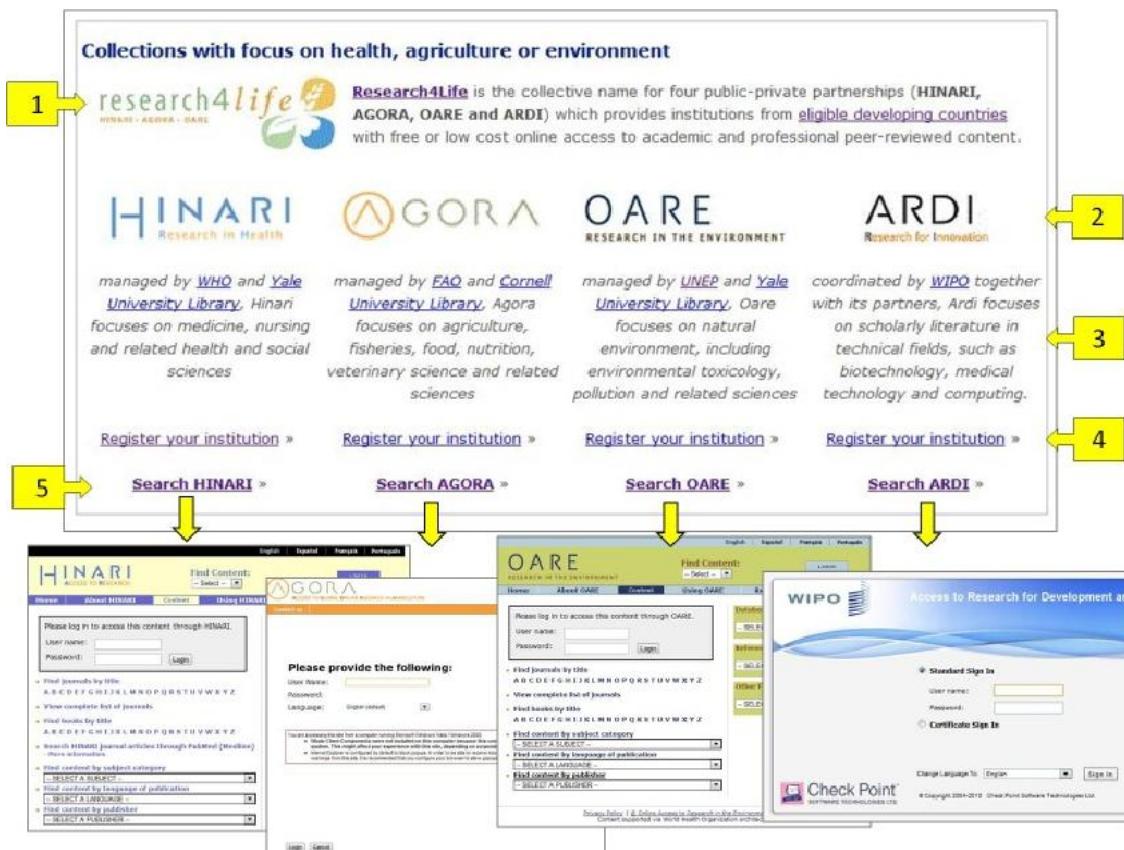


Figure 72

The registration is required to access the Research4Life collections and can be done by following the links **Register your institution**. Individuals are not eligible to register, only institutions.

Collections with focus on health, agriculture or environment

research4life is the collective name for four public-private partnerships (HINARI, AGORA, OARE and ARDI) which provides institutions from [eligible developing countries](#) with free or low cost online access to academic and professional peer-reviewed content.



HINARI
Research in Health
managed by WHO and Yale University Library, HINARI focuses on medicine, nursing and related health and social sciences

AGORA
Research in Agriculture
managed by FAO University, AGORA focuses on fisheries, food, veterinary science and social sciences

research4life
HINARI - AGORA - OARE - ARDI

Your institution is an academic, government or research institution in a developing country, you may be eligible to join one or more of the Research4Life Programmes ([check eligibility](#)).
 Your institution might already be registered with one of the programmes. If so, it can register again for a different programme.
 Please note that (1) Only one registration per programme is required per institution, and (2) More than one contact is required to register an institution.

Once we review your registration, we will issue a common username and password for all staff at your institution. As HINARI, AGORA and OARE are in fact virtual libraries, we suggest that your institution's librarian be our main contact point. Should your institution not have a library, your director will be the main contact. *** URGENT NOTE 21 FEBRUARY 2012: WE ARE CURRENTLY MIGRATING OUR SYSTEM AND APOLOGIZE THAT THE REGISTRATION FUNCTION BELOW IS NOT WORKING. WE ARE SO SORRY. PLEASE TRY AGAIN ON FRIDAY 24 FEBRUARY.*****

Programme (REQUIRED): Please select one or more programmes based on the information needs of your organization. More information on the content available in each programme is available by clicking on the programme logos above.	HINARI: <input type="checkbox"/> AGORA: <input type="checkbox"/> OARE: <input type="checkbox"/>
Country, area, or territory (REQUIRED):	<input type="text"/>
Type of institution (REQUIRED):	<input type="text"/>
Institution name full (REQUIRED):	<input type="text"/>
Institution postal address:	<input type="text"/>
Institution city (REQUIRED):	<input type="text"/>

Figure 73

2.11 Advanced Search

URL: <https://bch.cbd.int/database/advanced/>

In addition to search pages for specific categories of information, the BCH Central Portal also provides an advanced search facility which allows users to search for any records registered in the BCH from one page.

The page for **Advanced Search** can be accessed from the **Finding Information** drop-down menu on the horizontal navigation bar, or from the link in the left-hand menu of the **Finding Information** page.

The screenshot shows the main navigation bar of the Biosafety Clearing-House website. Below the navigation bar, there is a sidebar titled "Finding Information" on the left. A dropdown menu is open over this sidebar, with the "F" option selected. Within this dropdown, the "Advanced Search" link is circled in red. The main content area contains several sections: "National Contacts", "Laws and Regulations", "Country's Decisions and other Communications", "Roster of Experts", "LMOs, Genes or Organisms", "National Reports", "Capacity-Building", "Organizations", "The BCH Virtual Library", and "Advanced Search". The "Advanced Search" link is also circled in red. To the right of the sidebar, there is a large text area with a heading "Reference Records" and a section titled "LMOs, Genes or Organisms".

Figure 74

On the **Advanced Search** page there are several search criteria boxes and operators' buttons:

1. Type of record: Selection list field for narrowing search results to a specified type of record.
2. Selection list that allows the user to specify whether the type of record he/she is looking for should be limited to a particular category of information (**Equal**) or should include other related categories (**Related**).
3. Category of information (by default **National record** is displayed): Selection list field for narrowing search results to a specified category of information.
4. Operators' buttons for narrowing search results by adding additional criteria (AND, OR operators) or by excluding specified types of records or categories (NOT operator). After clicking one of this buttons a new set of search criteria boxes will appear below the initial one.

If no category is selected to narrow the search for a particular field, a default value of "all" will be used.

See "Using the search pages" to learn about types of fields and their operation.

Biosafety Clearing-House Convention on Biological Diversity

Home The BCH The Protocol Finding Information Registering Information Resources Help Country Profiles...

Finding Information

- National Contacts
- Laws and Regulations
- Country's Decisions and other Communications
- Roster of Experts
- LMOs, Genes or Organisms
- National Reports
- Capacity-Building
- Organizations
- The BCH Virtual Library
- Advanced Search --

Compiled Information

- National Contacts
- LMO Registry
- Organism Registry
- Gene Registry

Advanced Search

Choose fields ded to narrow search results. If no category is selected to narrow the search for a particular field, a default of "all" will be used.

Type of record Related National Record

AND OR NOT

1 2 3

Search »

Search »

Figure 75

Example: A user wishes to identify all records related to decisions on LMOs for direct use as FFPs or decisions on contained use taken in Asian region. The user (i) specifies region by selecting Region in the Type of record box and CBD Regional Groups – Asia in the categories of information box, (ii) clicks AND button and selects Decision: Type of decision in the Type of record box, Related, and Decision on LMOs for direct use as food or feed, or for processing (Article 11, LMOs-FFP) in the categories of information box, (iii) clicks OR button and selects Decision: Type of decision in the Type of record box, Related, and Decision on contained use of LMOs (Article 6.2) in the categories of information box.

Clicking on the **Search** button presents the search results displayed as a list of records. Detailed information about each record can be viewed by clicking on the record ID number.

The screenshot shows the 'Advanced Search' page with the following search query structure:

```

graph TD
    Root(( )) --- R1[Region: CBD Regional Groups - Asia]
    R1 --- R1_Related[Related]
    R1 --- R1_CBD["CBD Regional Groups - Asia"]
    R1 --- R1_AND[AND]
    R1 --- R1_OR[OR]
    R1 --- R1_NOT[NOT]
    
    R1_AND --- D1[Decision: Type of dec]
    D1 --- D1_Related[Related]
    D1 --- D1_Decision["Decision on LMOs for direct"]
    D1 --- D1_AND[AND]
    D1 --- D1_OR[OR]
    D1 --- D1_NOT[NOT]
    
    R1_OR --- D2[Decision: Type of dec]
    D2 --- D2_Related[Related]
    D2 --- D2_Decision["Decision on Contained use"]
    D2 --- D2_AND[AND]
    D2 --- D2_OR[OR]
    D2 --- D2_NOT[NOT]
  
```

The search results will be displayed as a list of records, and detailed information about each record can be viewed by clicking on the record ID number.

Figure 76

Group records by Results per page: 25

 Sort records by Export results to CSV file

[Show on map](#)

< Previous | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Next >

ID	Description
44874	China Approval of the import/use of LMO(s) without conditions
44875	China Approval of the import/use of LMO(s) without conditions
44876	China Approval of the import/use of LMO(s) without conditions
44877	China Approval of the import/use of LMO(s) without conditions
44878	China Approval of the import/use of LMO(s) without conditions
44879	China Approval of the import/use of LMO(s) without conditions

Country's Decision or any other Communication

Record Information and status

Record ID: 44874 Status: Published

Date of creation: 2008-04-20 16:10 UTC ([Zhang.Wengu@sepa.gov.cn](#))
 Date of last update: 2008-04-20 16:10 UTC ([bcn@cbcd.int](#))

General information

Country submitting the decision or communication: China

Competent National Authority(ies) responsible for the decision or communication:

Biosafety Management Office of Agricultural GMOs, Ministry of Agriculture
 11 Nantongzhanqian
 Beijing
 100026
 Phone:  +86 10 6419 3059 

Record #44874



Figure 77

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

3 Compiled Information

The **Compiled lists** of information are maintained and regularly updated by the BCH for the following categories of data: National Contacts, LMOs, Organisms and Genes. Unlike information accessible through the search pages, compiled information is provided in a list format, and is easily accessible either on the screen or in a PDF file.

Access to the compiled lists of information is provided from the links in the **Finding Information** drop-down menu on the navigation bar or from the link in the left-hand menu of the **Finding Information** page.

The screenshot shows the BCH homepage with the title 'Biosafety Clearing-House' and the Convention on Biological Diversity logo. The navigation bar includes links for Home, The BCH, The Protocol, Finding Information, Registering Information, Resources, Help, and Country Profiles. The 'Finding Information' menu on the left has several options: National Contacts, Laws and Regulations, Country's Decisions and other Communications, Roster of Experts, LMOs, Genes or Organisms, National Reports, Capacity-Building, Organizations, The BCH Virtual Library, and Compiled Information. The 'Compiled Information' option is highlighted and circled in orange. The main content area displays information about compiled lists, including sections for National Contacts, LMO Registry, Organism Registry, Gene Registry, Laws and Regulations, Country's Decisions and other Communications, Roster of Experts, and Reference Records. A second orange circle highlights the 'LMO Registry' link under 'Compiled Information'.

Figure 78

3.1 National Contacts Compiled Lists

URL: <http://bch.cbd.int/database/compiled-national-contacts/>

Access to the compiled lists of national contacts and competent authorities can be obtained using the **National Contacts** link in the left-hand menu of the **Finding Information** page or in the **Finding Information** drop-down menu on the navigation bar of the BCH Central Portal.

These links take users to the **National Contacts & Competent Authorities** page, which provides links to complied lists of:

- Parties to the Cartagena Protocol on Biosafety
- All National Contacts under the Cartagena Protocol on Biosafety
- Cartagena Protocol National Focal Points;
- Biosafety Clearing-House National Focal Points;
- Points of contact for unintentional transboundary movements and emergency measures (Article 17); and
- Competent National Authorities

These compiled lists are updated weekly.

National Contacts & Competent Authorities

- [List of Parties to the Cartagena Protocol on Biosafety](#)
- [All National Contacts under the Cartagena Protocol on Biosafety](#)
- [Cartagena Protocol National Focal Points \(CPB-NFPs\)](#)
- [Biosafety Clearing-House National Focal Points \(BCH-NFPs\)](#)
- [Points of contact for unintentional transboundary movements and emergency measures \(Art. 17\)](#)
- [Competent National Authorities \(CNAs\)](#)

Contact Lists

[List of Parties to the Cartagena Protocol on Biosafety](#)
[Go to the top of the page](#)

All National Contacts under the Cartagena Protocol on Biosafety
This list, updated weekly, includes Cartagena Protocol National Focal Points (CPB-NFPs), Biosafety Clearing-House National Focal Points, and Points of contact for unintentional transboundary movements and emergency measures.
[Go to the top of the page](#)

Cartagena Protocol National Focal Points
National Focal Points (NFPs) are designated by the respective governments to be the national focal point to be contacted for information.
[Go to the top of the page](#)

Secretariat of the Convention on Biological Diversity
Cartagena Protocol on Biosafety, Biosafety Clearing-House and Article 17 National Focal Points

For more information, please contact the Biosafety Clearing-House at:
413, St. Jacques Street, Suite 800
H2Y 1N9 Montreal, Quebec, Canada
Tel: (+514) 288-2220
Fax: (+514) 288-6588
E-mail: bch@cbd.int
Web: <http://bch.cbd.int>

20 February 2012

Albania
Article 17
Mr. Envergjaja Matij
Directeur du Ministère du Climat
Ministère de l'Environnement, du Climat et de la Transition Énergétique

Algeria
Biosafety Clearing-House
Mme. Nada Chouf
Sous-Directrice des Aires et Paysages du Patrimoine Naturel et Biologique
Direction Générale de l'Environnement

Figure 79

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

3.2 LMO Registry Compiled List

URL: <http://bch.cbd.int/database/lmo-registry/>

Access to the compiled list of LMOs can be obtained using the **LMO Registry** link in the left-hand menu of the **Finding Information** page or in the Finding Information drop-down menu on the navigation bar of the BCH Central Portal.

The **Living Modified Organism (LMO) Registry** page provides a list of all LMOs registered in the BCH database. Clicking on a record ID number will

display the record data. It is also possible to search for specific LMOs in the LMO registry by using the **LMOs, Genes or Organisms** search page.

The screenshot shows the BCH Central Portal interface. On the left, a sidebar titled 'Finding Information' lists various categories like National Contacts, Laws and Regulations, and LMOs, Genes or Organisms. A yellow circle highlights the 'LMO Registry' link under 'Organism Registry'. The main content area is titled 'Living Modified Organism (LMO) Registry'. It contains a summary text about the LMO-Unique Identifiers Registry and a table of registered LMOs. A yellow arrow points from the 'LMO Registry' link in the sidebar to the 'Record details' section of the main content. Below the table, there's a detailed view of a specific LMO record (Record ID: 14753). This view includes tabs for 'LMO Information', 'Decisions on the LMO', and 'Risk Assessments'. The 'LMO Information' tab is active, showing the LMO identity card with the identifier ACS-BN001-4, the name InVigor™ canola, and a barcode.

Figure 80

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

3.3 Organism Registry Compiled List

URL: <http://bch.cbd.int/database/organism-registry/>

Access to the compiled list of organisms can be obtained using the **Organism Registry** link in the left-hand menu of the **Finding Information** page or in the Finding Information drop-down menu on the navigation bar of the BCH Central Portal.

The **Organism Registry** page provides a list of all organisms registered in the BCH database. Clicking on a record ID number will display the record data. It is also possible to search for specific organisms in the organism registry by using the **LMOs, Genes or Organisms** search page.

The screenshot shows the BCH Organism Registry interface. On the left, there's a sidebar with 'Finding Information' and 'Compiled Information' sections. The 'Organism Registry' link in the 'Compiled Information' section is circled in orange. A yellow arrow points from this circled link to the main content area. The main content area displays a table of organisms with columns for Record ID, Taxonomic Status, Common Name, and Description. One row is highlighted for *Aedes aegypti*. Below this table is a detailed record view for the same organism, showing its scientific name, taxonomic classification (Kingdom: Animalia, Phylum: Arthropoda, Class: Insecta), and a description stating it is a yellow fever mosquito.

Record ID	Taxonomic Status	Common Name	Description
45731	<i>Cinetobacter calcoaceticus</i>	Bacteria	This gram-negative bacteria is a causative agent of meningitis, fulminating septicaemia, pulmonary and ophthalmic infections, chronic sinovitis, skin diseases, and wound infections in humans. ...
101472	<i>Aedes aegypti</i>	Yellow fever mosquito	
45799	<i>Aequorea victoria</i>	Crystal jellyfish	This jellyfish is capable of producing flashes of blue light by a
100350	<i>Agrobacterium tumefaciens</i>		
101429	<i>Agrobacterium tumefaciens pT</i>		
12081	<i>Agrobacterium tumefaciens st</i>		
12082	<i>Agrobacterium tumefaciens st</i>		

Organism

Record information and status

Record ID: 101472
Status: Published
Date of creation: 2010-12-14 11:42 UTC (anita@nre.gov.my)
Date of last update: 2010-12-14 11:42 UTC (anita@nre.gov.my)

Organism information

Scientific name: *Aedes aegypti*

Taxonomic Classification:

Kingdom	Animalia
Phylum	Arthropoda
Class	Insecta

Figure 81

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

3.4 Gene Registry Compiled List

URL: <http://bch.cbd.int/database/gene-registry/>

Access to the compiled list of genes can be obtained using the **Gene Registry** link in the left-hand menu of the **Finding Information page** or in the Finding Information drop-down menu on the navigation bar of the BCH Central Portal.

The **Gene and DNA Sequence Registry** page provides a list of all genes and DNA sequences registered in the BCH database. Clicking on a record ID number will display the record data. It is also possible to search for specific genes and DNA sequences in the gene registry by using the **LMOs, Genes or Organisms** search page.

Finding Information

- National Contacts
- Laws and Regulations
- Country's Decisions and other Communications
- Roster of Experts
- LMOs, Genes or Organisms
- National Reports
- Capacity-Building Organizations
- The BCH Virtual Library
- Advanced Search --

Compiled Information

- National Contacts
- LMO Registry
- Organism Registry
- Gene Registry**

[Home](#) | [Finding Information](#) | Gene and DNA Sequence Registry

Gene and DNA Sequence Registry

The BCH Gene Registry provides summary information on gene inserts and characteristics of the genetic modifications of the LMOs registered in the BCH.

Record ID	Name	Trait(s)	Donor organism	Function
100274	(<i>1,3-1,4</i>)-beta-glucanase gene	Changes in quality and/or metabolite content - Carbohydrates		This chimeric, synthetic gene produces a thermostable (<i>1,3-1,4</i>)- β -glucanase that has the ability to depolymerise glucans in the aleurone and endosperm during germination of cereal seeds

[Home](#) | [Finding Information](#) | Record details

Gene and DNA Sequence

Record information and status

Record ID	100274
Status	Published
Date of creation	2009-07-08 12:39 UTC (german_bch@bvl.bund.de)
Date of last update	2009-07-08 12:39 UTC (german_bch@bvl.bund.de)

General information

Name of the gene or DNA sequence

Category of DNA sequence
 Protein coding sequence

Figure 82

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.

4 Search using Record ID

URL: <http://bch.cbd.int/database/>

The BCH Central Portal provides a quick search facility which allows users to search for specific records by the official ID number under which the record has been registered in the BCH. The **Go to record ID** search box is located on pages of the **Finding Information** section at the bottom of the left-hand menu.

The screenshot shows the BCH website's 'Finding Information' page. At the top, there's a navigation bar with links for Home, The BCH, The Protocol, Finding Information, Registering Information, Resources, Help, and Country Profiles. Below the navigation is a banner featuring the 'Biosafety Clearing-House' logo, a Convention on Biological Diversity logo, and a globe graphic. The main content area is titled 'Finding Information'. It contains several sections: 'National Records' (with sub-links for National Contacts, Laws and Regulations, and Country's Decisions and other Communications), 'Reference Records' (with sub-links for LMOs, Genes or Organisms, Capacity-Building, and a Directory of International Organizations involved in Biosafety Activities), and 'Compiled Information' (with sub-links for National Contacts, LMO Registry, Organism Registry, Gene Registry, and a 'Go to record ID' search box). The 'Go to record ID' search box is circled in orange. Below it is a 'Go' button. The page also includes a sidebar with links for Home | Finding Information and various icons for printing, saving, and sharing.

Figure 83

Users who wish to access a specific record can enter the record number there and press **Go** to be taken directly to the record.

Example: A user looking for Record ID 300 enters 300 in the Go to record ID search box and then press **Go**.

The screenshot shows the BCH homepage with a sidebar for 'Finding Information' and a main content area for 'Record details'. The sidebar includes sections like 'National Contacts', 'Laws and Regulations', 'Roster of Experts', and 'Capacity-Building'. A yellow arrow points from the 'Go to record ID' input field to the circled value '300'. The main content area shows a record for a 'Law, Regulation or Guideline' with Record ID 300, published on March 14, 2003. The document title is 'Release into the Environment of Genetically Modified Organisms Act'.

Figure 84

This picture was taken on February 2012 with the only purpose of providing an example on the usage of the BCH.