



Catalogue of Life



a world reference

Alastair Culham

Catalogue of Life

A human-edited data aggregation

Depends on goodwill of data providers

Provides increased presence/publicity for data providers

The screenshot shows the homepage of the Catalogue of Life. At the top, there's a navigation bar with links for Home, About, Tools, Resources, and Contact. Below the navigation is a large search bar with placeholder text "Search Catalogue of Life - updated 4th August 2013". To the right of the search bar are two buttons: "Advanced search" and "Search". Above the search bar, there's a section titled "Catalogue of Life" with a colorful horizontal bar underneath. To the left of the search bar, there's a section titled "Finding What You Need In The Catalogue of Life" with a "Read More" button. Below the search bar, there's a welcome message: "Welcome to the Catalogue of Life website! The gateway to our online database of the world's known species of animals, plants, fungi and micro-organisms." There are two main access options: "Dynamic Checklist" (updated periodically throughout the year, last update May 2013) and "Annual Checklist" (a referenceable snapshot once per year, last publication date April 2013). Both options have an "Access" button. At the bottom, there's a "FAQ" section and a "Progress" section showing statistics: "Total Species: 1,352,388" and "Total contributing databases: 132". A progress bar indicates "70%". Social media links for Twitter and Facebook are also present.

Browse
 Search
 Info

The Catalogue of Life, 18th April 2013

<< Previous The Catalogue of Life, 18th April 2013 Next >>

This release of the Catalogue of Life contains contributions from 132 databases with information on 1,352,338 species, 114,069 infraspecific taxa and also includes 928,470 synonyms and 408,689 common names covering the following groups:

Viruses • Unicells and Cellular agents from ICSV_MIL

Bacteria and Archaea from B2OG

Chromista • Chromistan fungi from Species Fungorum

Protozoa • Major groups from ITIS Regional • Ciliates from CICat • Polyzoans from World PolyzoaLista [\[UPDATE\]](#) • Protozoan fungi from Species Fungorum and Endomyzozoan database • Some moulds from Fungal MycoPortal.com

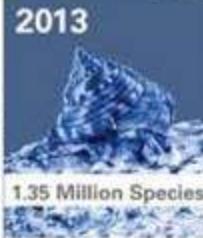
Fungi • Various taxa in whole or in part from CAB International databases (Species Fungorum, Phytochekka, Phytomatales, Saccharomyces and Zygomycota databases) and from three other databases covering Vasculariae, Gleicheniopsida, Trichomycetes, Dikaryaexotiles • Lichens from LADS

Plantae (Plants) • Mosses from MOIST • Liverworts and hornworts from EJFT • Conifers from Conifer Database • Cycads and 6 flowering plant families from ITIS-GPC, and 99 families from WCSP • Plus individual flowering plants, families from AnnalsB, Brassicaceae, Chirostoma, Cicurina, Cicurinaceae Database, Eriocaulaceae, GNC, ILES, Leptosperbe, LHD, Melast, PIB Geraniac, Solanaceae Source, Umbellif.

Animalia (Animals) • Marine groups from UMRG, ITIS Global, Hexapoda, ETI WDO (Insecta), WORMS, WoRMS Arthropoda [\[UPDATE\]](#), WoRMS Radiolaria [\[UPDATE\]](#), WoRMS Brachopoda [\[UPDATE\]](#), WoRMS Bryozoa [\[UPDATE\]](#), WoRMS Ctenophora [\[UPDATE\]](#), WoRMS Glycocalyx [\[UPDATE\]](#), WoRMS Cestoda [\[UPDATE\]](#), WoRMS Nemertines [\[UPDATE\]](#), WoRMS Nematoda [\[UPDATE\]](#), WoRMS Monogenea [\[UPDATE\]](#), WoRMS Hymenolida [\[UPDATE\]](#), WoRMS Hydrozoa [\[UPDATE\]](#), WoRMS Isopoda [\[UPDATE\]](#), WoRMS Lephithrix [\[UPDATE\]](#), WoRMS Monogynida [\[UPDATE\]](#), WoRMS Pyridostomida [\[UPDATE\]](#), WoRMS Mollusca [\[UPDATE\]](#), WoRMS Nemertea [\[UPDATE\]](#), WoRMS Oligochaeta [\[UPDATE\]](#), WoRMS Opistognathidae [\[UPDATE\]](#), WoRMS Phoronida [\[UPDATE\]](#), WoRMS Polycladida [\[UPDATE\]](#), WoRMS Prostomida [\[UPDATE\]](#), WoRMS Pteropoda [\[UPDATE\]](#), WoRMS Remipedia [\[UPDATE\]](#), WoRMS Scaphopoda [\[UPDATE\]](#), WoRMS Tardigrada [\[UPDATE\]](#), WoRMS Turbellaria [\[UPDATE\]](#), WoRMS Kenorhabdida [\[UPDATE\]](#) • Rotifers, mayflies, freshwater nematodes, planarians from FAO Database, FAO Fisheries, FAO Invertebrates, FAO Rainforests, FAO Turbellaria • Entomobranchs, oligochaetes, copepods, pauropods and symphylans from Copepoda [\[UPDATE\]](#) • Chitellidae • Dragonflies and damselflies from Odonata database • Stomoxys from Neoplatypeltid • Cockroaches from Blattodeal • Playing mantids from Mantodeal • Stick and leaf insects from Phasmida • Grasshoppers, locusts, katydids and crickets from OrthopteraSF • Web-spinners from EmbopteraSF • Bark & parasitic bees from Psocoidae • Some groups of true bugs from Psocopter • Coleoptera from ColeopteraSF • Bark & parasitic bees from Psocoidae • Larvae, adults, ovules, fruits, blossoms & seedlings from LCO • Hemiptera • Some beetle groups from the Scolytidae [\[UPDATE\]](#), TITAN, Moths & Convolvulus • Twisted-wing parasites from Strepsiptera Database • Cicadoids, midges and gnats from Systema Dipteronum, COV & COA • Butterflies and moths from Lepidoptera, CHEDS (CATIE), Thelidex Net, World Graecimeta • Bees & wasps from ITIS bees, Teleshed Johnmuellerida, UCG, ZOOTOPAT, Vespidae & Hymenopteraommatidae • Molluscs from WoRMS Mollusca, FAO Bivalvia, MalacoScW & AFD (Mollusca) • Fishes from Fishbase • Raptores from IOC Rappers • Amphibians, birds and mammals from ITIS-GeoFauna

CATALOGUE OF LIFE

2013 Annual Checklist

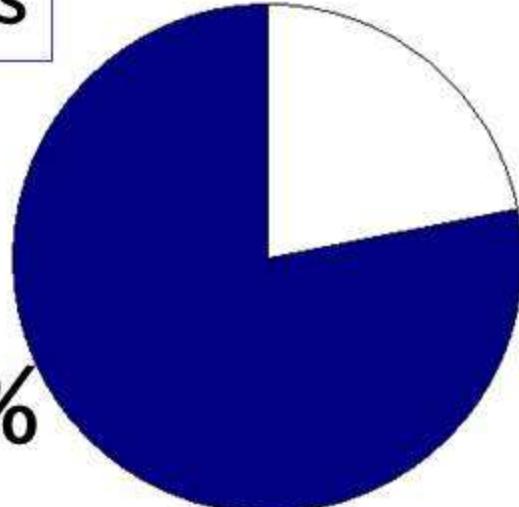


1.35 Million Species

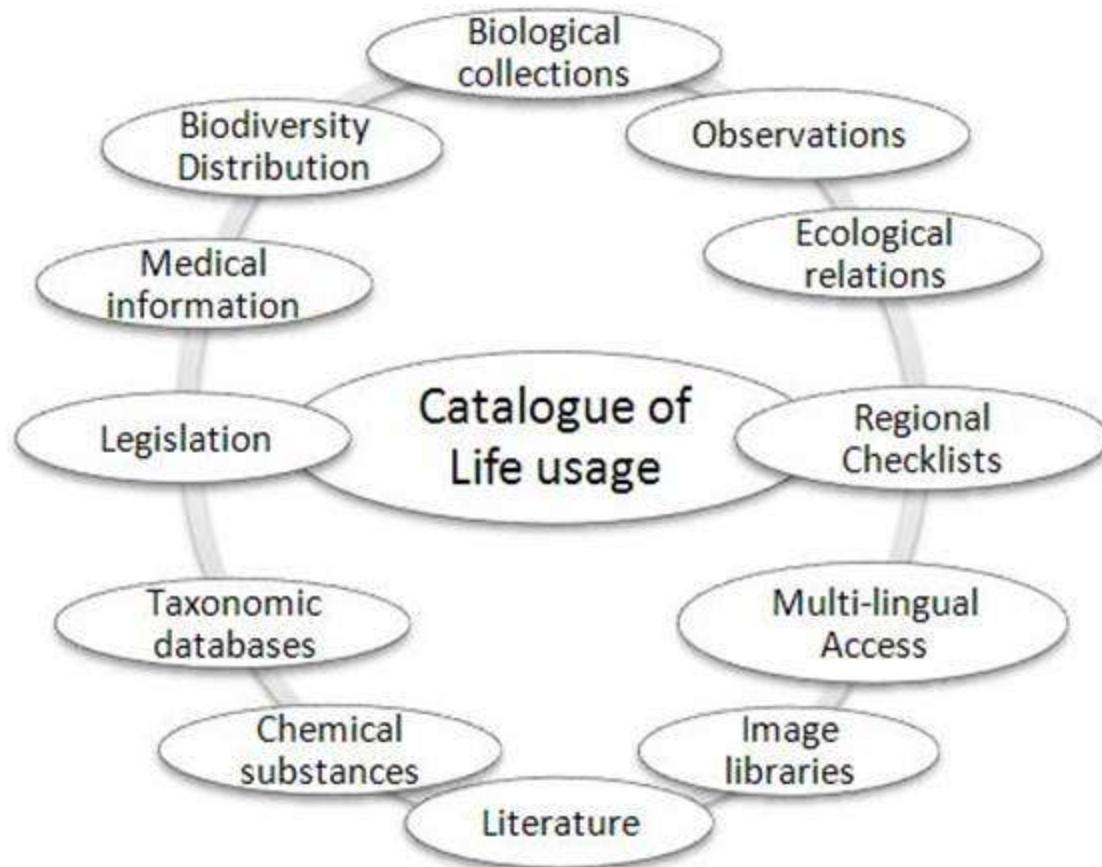


1,9M species

71%



The community of users of the Catalogue of Life





Indexing for Life Project

(November 2010 – October 2013)

Co-ordinator

University of Reading, UK

Global Biodiversity Programmes

1. GBIF
2. EMBL-EBI
3. Barcode of Life
4. IUCN Red List
5. LifeWatch
6. Encyclopedia of Life

Catalogue of Life Community

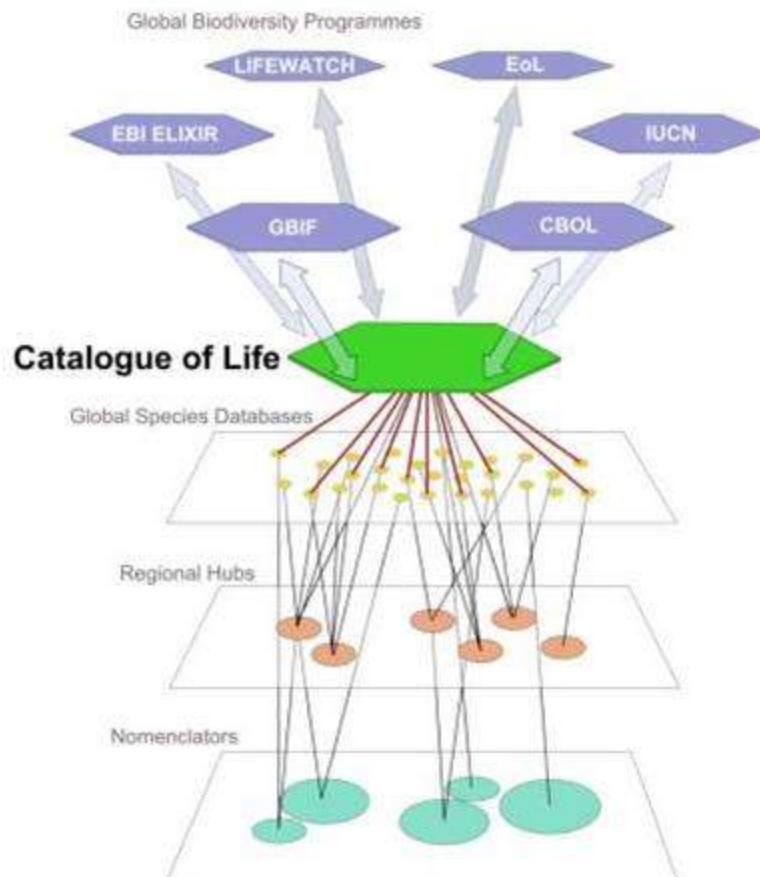
1. Sp2000
2. ITIS
3. University of Reading
4. ETI Bioinformatics
5. Cardiff University
6. MNHN Paris

i4Life Project Objectives

To establish a Virtual Research Community to interlink and harmonise **global taxonomic catalogues**.

The existing **Catalogue of Life** is used as a backbone.

This builds on the work of the 4D4Life Project.



Steps of the project

Infrastructure

Design, test and implement

Download Service

- ✓ Supplying chosen parts of Catalogue of Life
- ✓ Structured Darwin Core format
- ✓ Machine readable

[Read More](#)

Piping Tool

- ✓ Exchanging taxonomic data
- ✓ Improving quality of taxonomic data
- ✓ Enabling data flow

[Read More](#)

Cross-mapping Tool

- ✓ Comparing two lists of species
- ✓ Identifying overlap
- ✓ Outputting differences

[Read More](#)

i4Life internal services

Download

i4Life WP4 Download Service of the Catalogue of Life: Darwin Core Archive Export

Version 1.1 (2013)

This zip file offers an interface in the application that exports data from the Species 2000 & ITIS Catalogue of Life (15th March 2013) (S2I) (ITIS) in the Darwin Core Archive format.

The export can be narrowed down to a specific taxon by selecting it from the menu. E.g. if you want to limit your export to a specific order, you can select that order from the menu by clicking its name or by clicking the Show all button. By default, the complete data is imported but you can further fine the export by selecting a different option. Hover over the buttons to see exactly what is imported for each option.

Download a Darwin Core Archive for the [complete Catalogue of Life \(120 MB\)](#).

Downloaded the previous editions:

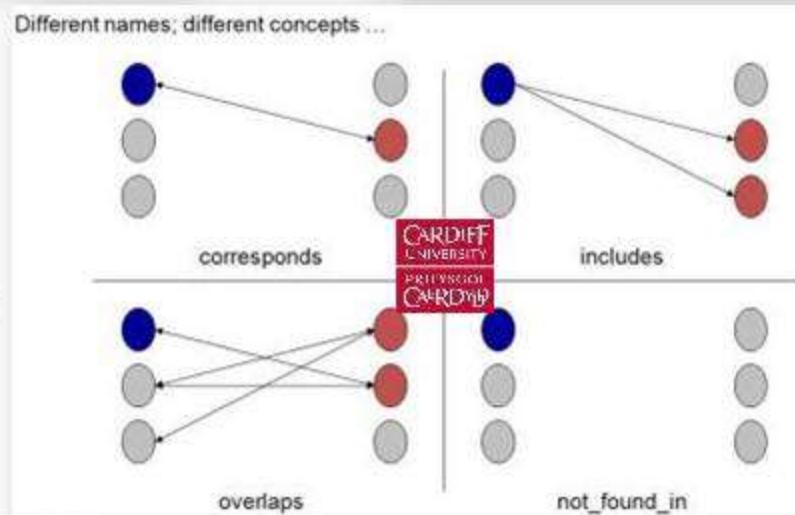
- Catalogue of Life 3rd February 2013;
- Catalogue of Life 5th December 2012;
- Catalogue of Life 24th October 2012;
- Catalogue of Life 26th July 2012.

Filter field group:

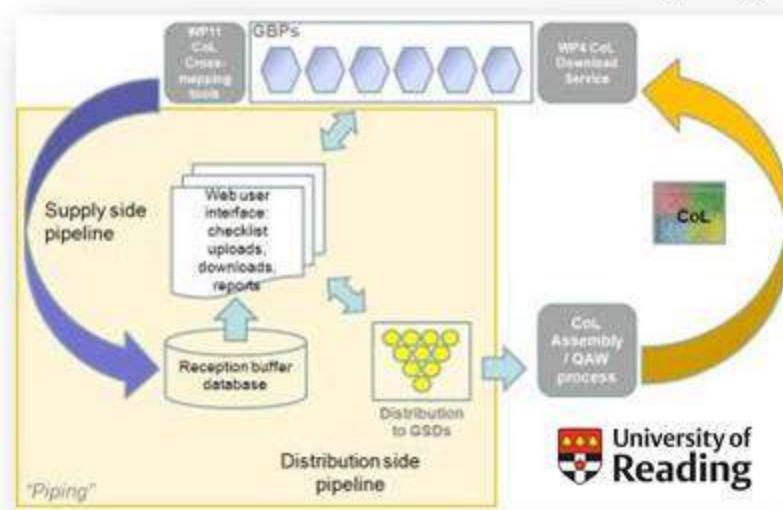
- Phylum:
- Class:
- Order:
- Superfamily:
- Family:
- Genus:

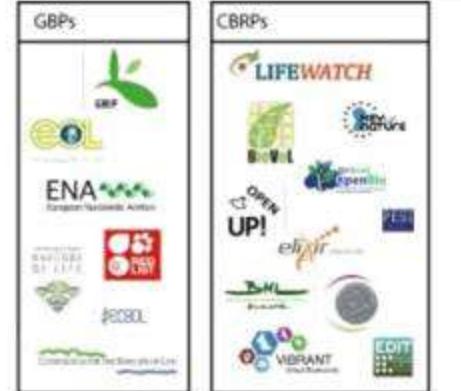
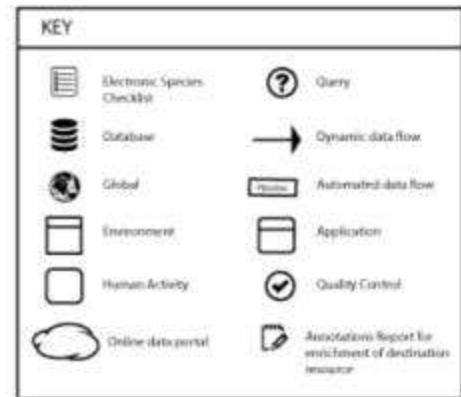
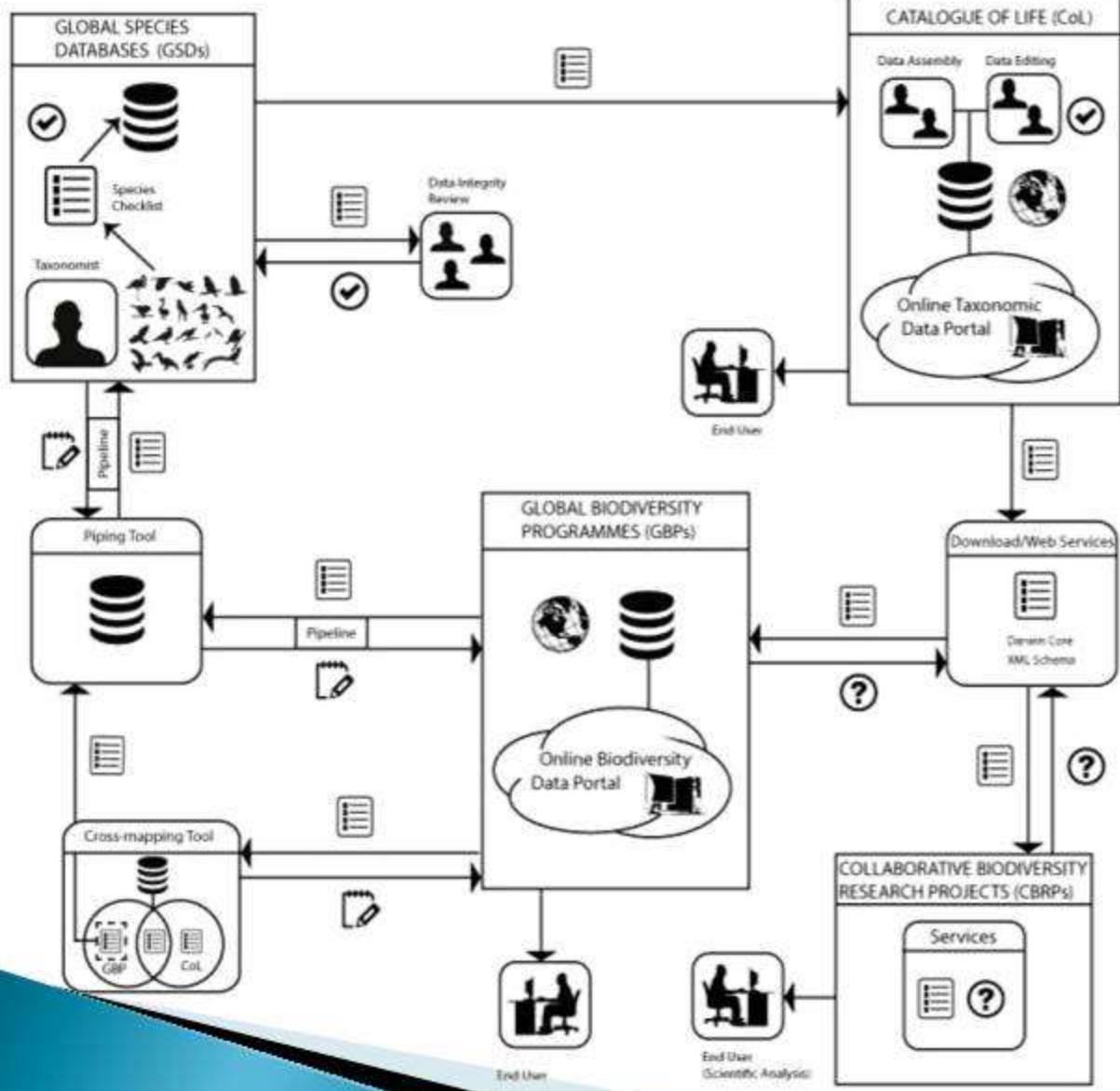


Cross mapping



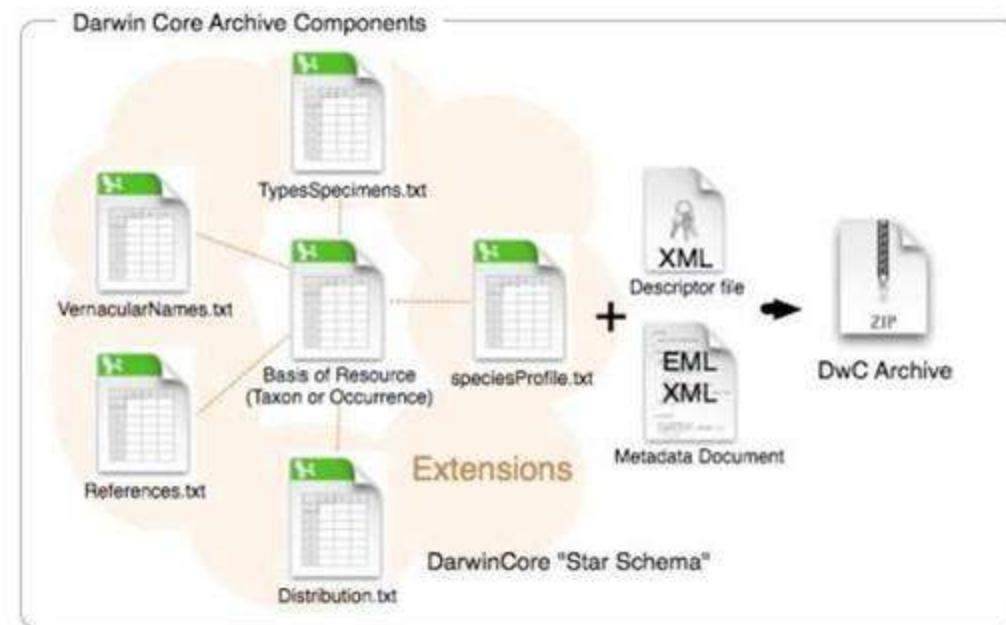
Piping





Exchange format

- ▶ **DwC-A** is agreed as an official i4Life format for exchange of information between the CoL and Global Partners. The partners have agreed on a specific i4Life profile of DwC-A.
- ▶ **i4Life Darwin Core Archive Profile** a common format for the exchange of checklists among partners in i4Life and in the wider biodiversity informatics community available at: <http://www.i4life.eu/i4lifewebsite/projectdocuments/>



leader: Markus Döring

Institution: GBIF, Copenhagen, Denmark



- ▶ Regular, repeated access to the CoL data (download service)



- ▶ Sharing taxonomic data from GBIF to COL (piping tools)



- ▶ GBIF Checklist-Publishing Guides



leader: Guy Cochrane
Institution: EMBL-EBI

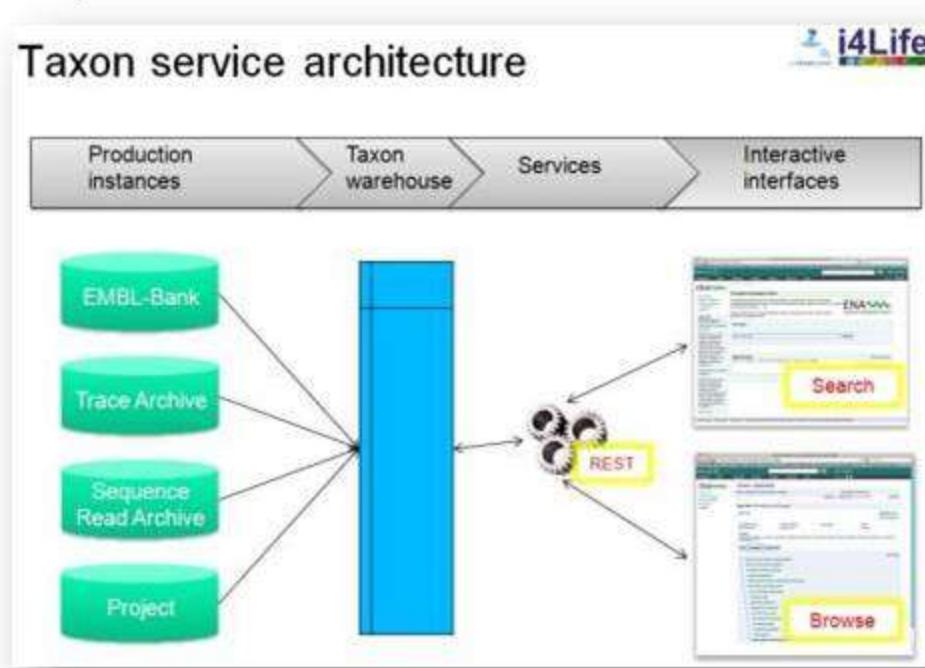
Taxon-centric portal

Prior to i4Life

- Taxonomy
- Sequence to taxon associations treated as simple annotations
- No connectivity through simple interface

After i4Life

- Dedicated warehouse
 - Taxonomic names
 - Lineages
 - Data associations
- Associated services
 - Browse
 - Search
- Web interface
- REST interface



leader: Craig Hilton-Taylor
 Institution: IUCN, Cambridge, UK



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[About](#) | [Initiatives](#) | [News](#) | [Photos](#) | [Partners](#) | [Sponsors](#) | [Resources](#)

[Enter Red List search term\(s\)](#) [SEARCH](#) [OTHER SEARCH OPTIONS](#)

Mustela lutreola

This taxon has not yet been assessed for the IUCN Red List, and also is not in the Catalogue of Life.

[Standard](#) | [Classification Summary](#) | [Image & Universal Links](#) | [Bibliography](#) | [Full document](#)

[Links to Other Information Sources](#) [View details](#)

[Map view](#)

[Naturalis.org](#) [zoobank.org](#)

Databases:

- [Search the Encyclopedia of Life \(eol\) database](#) [Search](#)
- [Search the Global Biodiversity Information Facility \(GBIF\) database for this species](#) [Search](#)
- [Search the Species 2000 site for further information about this species](#) [Search](#)

Name found in IUCN RedList...

The IUCN Red List of Threatened Species™ 2011.2. [Login](#) | [Feedback](#) | [FAQ](#) | [Disclaimer](#) | [Sitemap](#)

[About](#) | [Initiatives](#) | [News](#) | [Photos](#) | [Partners](#) | [Sponsors](#) | [Resources](#)

[Enter Red List search term\(s\)](#) [SEARCH](#) [OTHER SEARCH OPTIONS](#)

No entries found

Current search: [Open / Export Search](#)

Search terms: Mustela lutreola

Current search: "Mustela lutreola", exact phrase. The entry contains

Search Results

Explore or refine your search below:

- [Keywords](#)
- [Taxonomy](#)
- [Location](#)
- [Systems](#)
- [Habitat](#)
- [Threats](#)
- [Assessment](#)
- [History](#)

This taxon has not yet been assessed for the IUCN Red List, and also is not in the Catalogue of Life.

Name not found in IUCN RedList...

Name not found in IUCN RedList...

Species 2000 Catalogue of Life: 2011 Annual Checklist. [Viewing the specific known species](#)

[ITIS](#)

Records found: 4 [Export search results](#) | [New search](#) [Records per page:](#) 20 [Update](#)

Rank	Name status	Group	Source database
Species	accepted name	Animals	ITIS
Subspecific taxon	accepted name	Animals	ITIS
Subspecific taxon	accepted name	Animals	ITIS
Subspecific taxon	accepted name	Animals	ITIS

Records found: 4 [Export search results](#) | [New search](#) [Records per page:](#) 20 [Update](#)

Mustela lutreola (Linnaeus, 1758) Species accepted name Animals [ITIS](#)

Mustela lutreola (Linnaeus, 1758) Subspecific taxon accepted name Animals [ITIS](#)

Mustela lutreola (Linnaeus, 1758) Subspecific taxon accepted name Animals [ITIS](#)

Mustela lutreola (Linnaeus, 1758) Subspecific taxon accepted name Animals [ITIS](#)

Name found in IUCN RedList...

Museum and Institute of Zoology PAS, Poland. Wieslaw Bogdanowicz

CBS-KNAW, Utrecht, The Netherlands. Vincent Robert

i4Life – links with two Bar-coding Laboratories in Europe:

- 1.uploading and downloading from to the Nematode taxonomy & barcode system (Warsaw)
- 2(Linking with BOLD database via European BOLD mirror at KNAW; uploading and downloading to the MycoBank plus Plants barcode database at CVS Utrecht

Fungal Barcoding
International Fungal Working Group

Home page Projects Collections Search site Identification Help Contact us

Specimens Taxonomy

European BOLD Mirror

The purpose of this website is to provide a web-based platform for fungal barcoding and to facilitate communication and the development of collaboration among researchers interested in this topic.

This homepage is the user's starting point for identification of species in all the Kingdoms of Life. The goal of the Fungal Barcoding site is to provide the DNA barcoding of fungi and other fungal-like organisms.

Fungi are a large, diverse and ecologically important group of eukaryotes. Estimates of the actual number of fungal species vary widely, from 1.5 million to 10.5 million, with fewer than 100,000 new isolates being made each year. Fungi include filamentous and unicellular mycelia, but others have very simple metabolism; many fungi have been identified using DNA sequencing, but have never been seen because of their cryptic nature. Fungal孙们 are particularly suitable for DNA-based identification.

In addition to specimen barcoding, molecular methods are currently being used extensively in fungal phylogenetics, reconstruction, and species recognition. Fungal barcoding not only provides without opportunity, it also presents particular challenges. For instance, many fungi introduce technically making the resolution of a biological species difficult problem.

Moreover, fungal孙们 are not uniformly described, as is the case in animals. Consequently, initial efforts to barcode fungi involve testing a number of taxonomic and molecular criteria simultaneously.

We welcome the ideas and participation of mycologists from all countries, working with any group of fungi and their孙们.

Click here for the latest BOLD Test February 2012.

Official European BOLD mirror
(Test:www.cbs.knaw.nl/eubold)

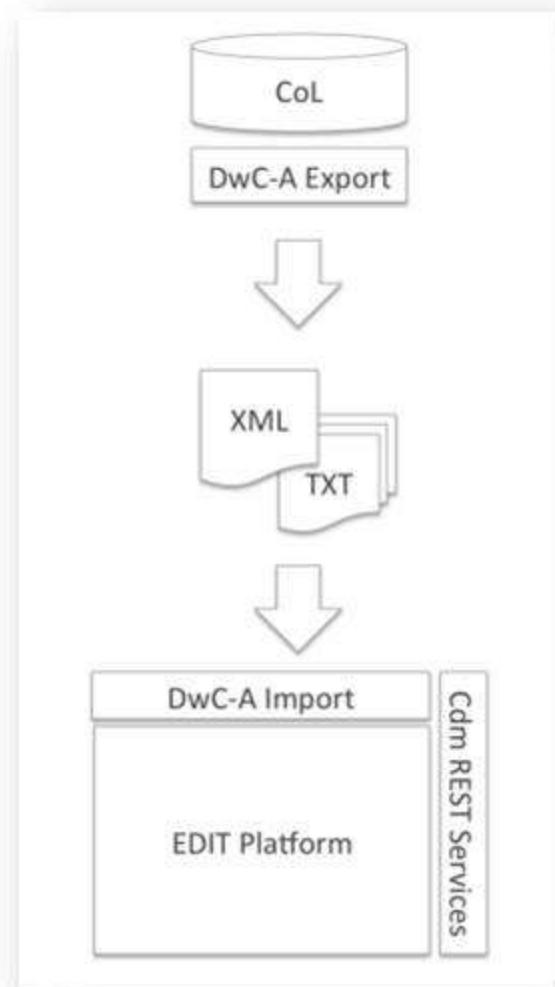
bioRxiv preprint doi: https://doi.org/10.1101/2012.02.16.269212; this version posted February 16, 2012. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

What to do with the BINs system of BOLD and environmental sampling?

Workshop in September 2012 discussed this

leader Walter Berendsohn
Organisation: FUB-BGBM, Berlin, Germany

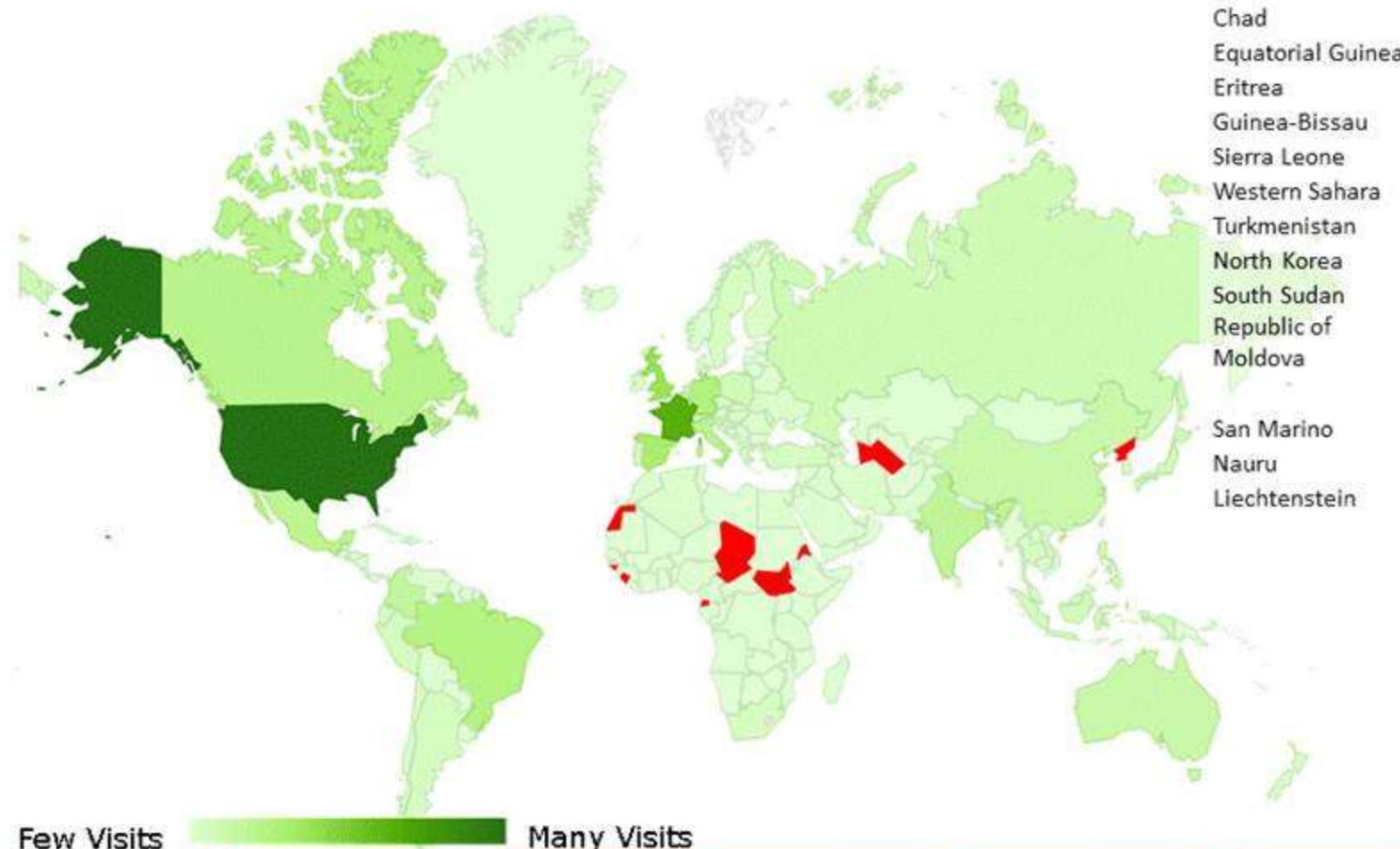
- ▶ To design, prototype, test, and implement an interface for importing the CoL into a new instance of the EDIT platform for Cybertaxonomy at an agreed frequency.
- ▶ To expose the EDIT-CoL instance via a robust and well-documented service-interface to the emerging LifeWatch infrastructure.



**Who uses the
Catalogue of Life?**

Web interface hits

Distribution of Visits to CoL by Country



Few Visits

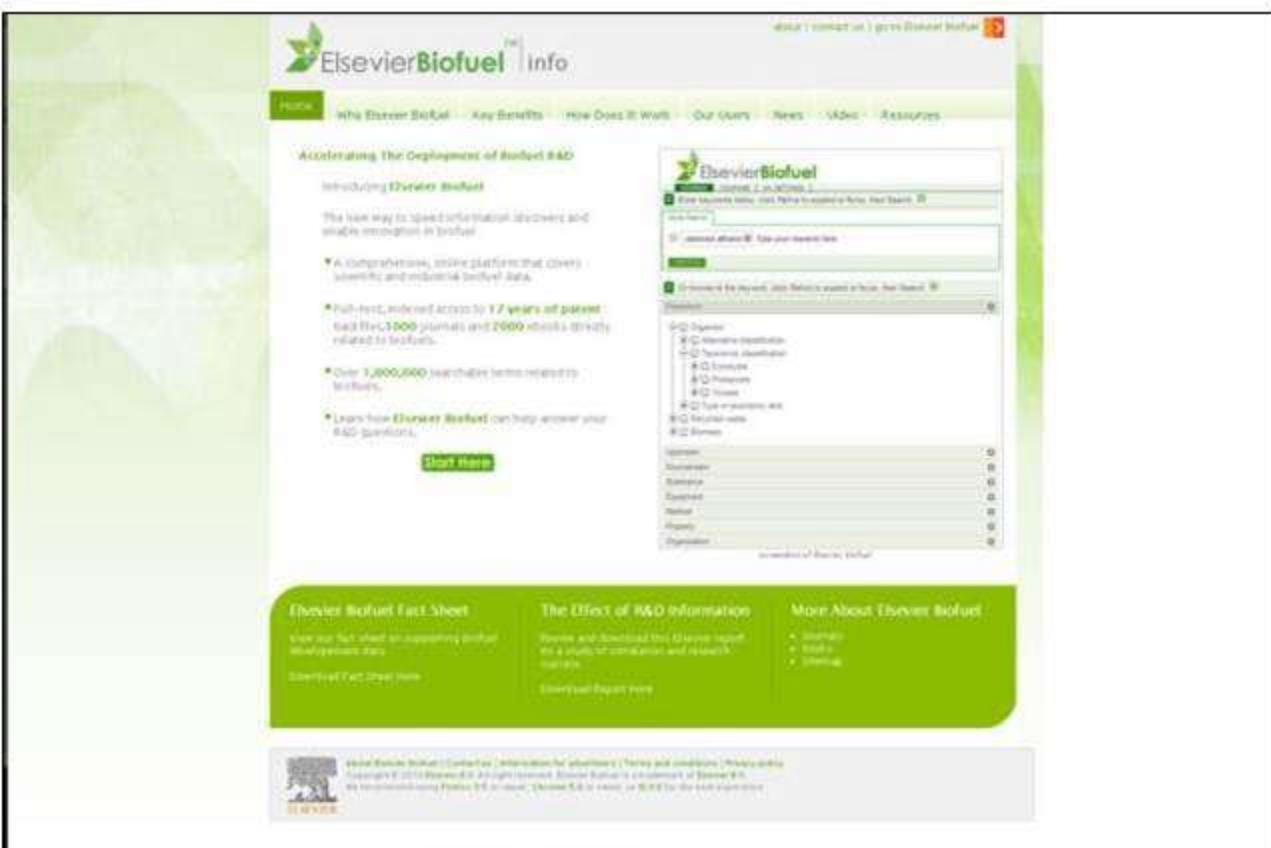
Many Visits

No Visits

Year	2010	2011	2012*
Hits	45723435	59166896	84642709

Elsevier Biofuel

www.info.elsevier-biofuel.com



The screenshot shows the homepage of the Elsevier Biofuel website. The header features the ElsevierBiofuel logo and a search bar. The main content area is titled "Accelerating the Deployment of Biofuel R&D" and includes a section on "Introducing Elsevier Biofuel". It highlights the platform's comprehensive coverage of academic and industry biofuel data, full-text, indexed access to 17 years of patent data (over 3,000 grants and 2,000 abstracts), over 1,000,000 searchable terms related to biofuels, and the ability to learn from Elsevier Biofuel's help section. A "start here" button is present. To the right, there is a sidebar with a search interface, a list of search filters (e.g., Organic, Inorganic, Renewable, Fossil, Process, Vehicle, Type of reaction, etc.), and a "Search Results" section showing 0 results. At the bottom, there are links for "Elsevier Biofuel Fact Sheet", "The Effect of R&D Information", and "More About Elsevier Biofuel". A footer contains a small Elsevier logo and legal text.

The Catalogue of Life use cases

iphone App

<https://itunes.apple.com/us/app/eco-map>

Eco:Map Lite – Free
Eco:Map – £17.49



The image shows the iTunes product page for the "Eco:Map" app. At the top, it says "View More By Chris Seifert". Below that is the app's title "Eco:Map" and developer "By Martin Seifert". It says "Open iTunes to buy and download apps". A thumbnail image of the app interface is shown, featuring a green plant icon.

Description:
Eco:Map is a professional tool for mapping plants and groups with the iPhone. Species are administered independently according to requirements. The GPS unit of the iPhone determines automatically the coordinates of each find. For each find you can store further parameters e.g. the size of specimen. Each find can immediately be displayed on a map.

What's New in Version 2.5.0:

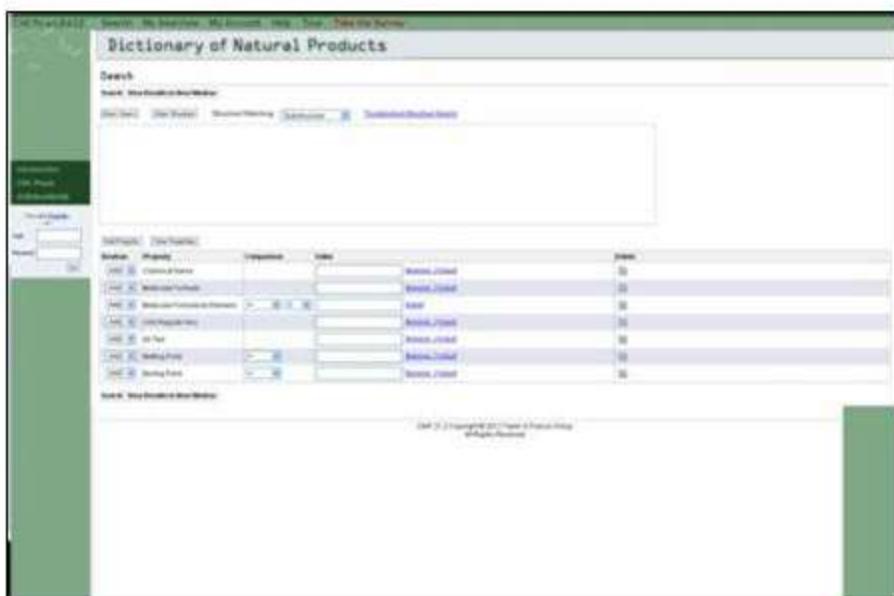
- Faster template for finding finds via location (not hard traps available)
- Share area of a find (e.g. scientific name) can be selected using the keyboard
- Geometric functions are accessible via perform menu

iPhone Screenshots:

- Screenshot 1: Shows a list of finds with icons for edit, delete, and details.
- Screenshot 2: Shows a detailed view of a find for "Drosera rotundifolia" with coordinates 54.0899° N, 5.1395° W, and options to apply center coordinate or update location.
- Screenshot 3: Shows a close-up image of the plant.

The Catalogue of Life use cases

Dictionary of Natural Products



The screenshot shows a search results page for the Dictionary of Natural Products. The top navigation bar includes links for Search, My Account, My Account, Help, User, and Logout. Below the navigation is a search bar with placeholder text "Search" and a dropdown menu for "Search Method". The main content area displays a table of search results with columns for ID, Name, Description, and Date. The results listed are:

ID	Name	Description	Date
DNP-00001	Cannabis	Cannabis sativa	2006-07-06
DNP-00002	Curcumin	Curcuminoids	2006-07-06
DNP-00003	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00004	Indole alkaloids from plants	Indole alkaloids from plants	2006-07-06
DNP-00005	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00006	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00007	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00008	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00009	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00010	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00011	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00012	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00013	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00014	Indole alkaloids	Indole alkaloids	2006-07-06
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DNP-00018	Indole alkaloids	Indole alkaloids	2006-07-06
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DNP-00079	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00080	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00081	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00082	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00083	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00084	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00085	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00086	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00087	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00088	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00089	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00090	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00091	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00092	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00093	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00094	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00095	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00096	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00097	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00098	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00099	Indole alkaloids	Indole alkaloids	2006-07-06
DNP-00100	Indole alkaloids	Indole alkaloids	2006-07-06

Online

<http://dnp.chemnetbase.com>

Dictionary
of Natural
Products
on DVD



On DVD

The Catalogue of Life use cases

Biodiversity Heritage Library



The screenshot shows the BHL-Europe homepage. At the top, there's a navigation bar with links for Home, About Us, Feedback, My Account, Login/Create Account, and a language dropdown set to English. Below the navigation is a search bar with options for simple search, advanced search, and a dropdown menu for 'Search in'. The main content area features a large, detailed illustration of a fish. To the left of the illustration are several small thumbnail images of books or documents. Below the illustration are several search tips and links:

- Building search terms:
 - Add the name from the results from the previous search to another search term to refine your search.
 - Search for a cited phrase:
 - Use the exact phrase in quotes.
 - Search for the entire phrase in the search field.
 - Search for a cited phrase:
 - Use the exact phrase in quotes.
 - Search for the entire phrase in the search field.
 - Search for ranges of years:
 - Use the range of years in quotes.
 - Search for the entire range of years in the search field.
 - Boolean operators:
 - Use the Boolean operators AND, OR, NOT, and NOT in the search field.
 - Search for the entire phrase in the search field.

Europe

www.bhl-europe.eu



The screenshot shows the BHL Global homepage. At the top, there's a navigation bar with links for Home, About BHL, Help, and social media icons for Facebook and Twitter. The main content area features a large image of a bird. To the right of the image is a 'Help Support BHL' section with a button to 'Donate Now'. Below the image are three main sections: 'New on the BHL Blog' (with a link to 'See More Blog Posts'), 'Today's Picks Flickr Stream' (with a link to 'See More Images on Flickr'), and 'Featured Collection Notable Women in Natural History' (with a link to 'View the Collection').

Global

www.biodiversitylibrary.org

The Catalogue of Life use cases

Scratchpads

<http://scratchpads.eu>

The image shows a screenshot of the Catalogue of Life website. On the left, a search results page displays a list of species names under the heading 'Species' (e.g., Arthropoda, Arthropoda - Insecta, Arthropoda - Insecta - Phasmida, Arthropoda - Insecta - Phasmida - Phasmidae). On the right, a detailed view of a species record for 'Acanthococcus spicatus' is shown. This record includes a thumbnail image of the insect, its scientific name, common name ('Cottony cushion scale'), family ('Pseudococcidae'), and a brief description: 'A small, pale, oval-shaped soft scale insect, covered in a white, waxy, cottony secretion. It feeds on the leaves and twigs of various plants, particularly cotton and citrus trees.' Below the description is a link to 'View details'.

The Catalogue of Life use cases

Future priorities



Re-inventing the wheel –
GOOD!

But we need to rebuild
the road...