



Scientific Electronic Library Online

# **BHL SciELO Network: quarterly report**

**Period: October 1<sup>st</sup>, 2012 – December 30<sup>th</sup>, 2012**

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# 1 About the BHL-SciELO Network

The BHL SciELO Network aims to contribute to the indexation, qualification, publishing, access and interoperability of biodiversity scientific information. It integrates BHL and SciELO networks.

The BHL-SciELO Network, launched in Brazil, has its development and operation supported by two projects. Firstly, the **SciELO Biodiversity Project: extension and strengthening of information infrastructure and scientific knowledge in biodiversity** (SciELO Biodiversity Project), which counts with the financial support of Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP – Sao Paulo Research Foundation) – through FAPESP Virtual Library, BIOTA/FAPESP Program, and SciELO Project – and secondly, the **Project for online scanning and publishing of a collection of essential works in biodiversity from Brazilian libraries** (Essential Biodiversity Works Scanning Project), funded by PROBIO II/GEF through the Forests and Biodiversity Secretary of the Ministry of Environment (MMA).

The development and operation of products, BHL-SciELO services and events is publicized on the portal (<http://www.bhlsciELO.org>), which is supervised and advised by a Advisory Committee. The technical secretary and network operational coordination is performed by SciELO technical team, and executed with institutional support of Fundação de Apoio à Universidade Federal de São Paulo (FapUNIFESP – Federal University of Sao Paulo Foundation).

This report describes the operation of BHL SciELO Network in the period between October 1<sup>st</sup>, 2012 and December 30<sup>th</sup>, 2012, highlighting the following results:

- a) III Meeting of the BHL SciELO Network Advisory Committee, held on December 11<sup>th</sup>, 2012, in Sao Paulo (SP) - Brazil;
- b) Jardim Botânico do Rio de Janeiro (JBRJ – Rio de Janeiro Botanical Garden) included in the Advisory Committee;
- c) 505 scanned works which sum 116.950 pages of books and scientific journals, according to BHL methodology. Scanning operation started in Rio de Janeiro Botanical Garden. Completion of scanning activities in Butantan Institute;
- d) 17.474 articles of 39 journals available in the Biodiversity Journals Portal;

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- e) 547 bibliography records within SciELO Repository of Articles in Biodiversity;
- f) Posts from 105 scientific blogs about biodiversity, indexed in the ResearchBlogging.org;
- g) 69 acts of Brazilian legislation about biodiversity, with links to their full content;
- h) 4.144 terms and 2.731 scope notes available from the Biodiversity Thesaurus (ThesBio).

## 1.1 Advisory Committee

The Advisory Committee is formed by representatives of the institutions involved in the SciELO Biodiversity Project and in the Essential Biodiversity Works Scanning Project, with the following permanent composition:

- Secretary of Forests and Biodiversity of the Ministry of Environment;
- Zoology Museum of the University of Sao Paulo;
- BIOTA/FAPESP Program;
- National Library Foundation;
- Brazilian Society of Zoology;
- Science editors of the SciELO Collection of Biodiversity Journals;
- Librarians Work Group;
- Developers Work Group;
- Rio de Janeiro Botanical Garden;
- FAPESP SciELO Program, as Committee coordinator.

The III Meeting of Advisory Committee was held on December 11th, 2012, in Sao Paulo (SP) – Brazil, and resulted in the establishing new lines of action for the BHL-SciELO Network:

- Strengthening the development of EOL Brazil, with the approval of the MOU and with the inclusion of Rio de Janeiro Botanical Garden in the Advisory Committee;





- Enhance the editorial operation of the Brazilian scientific journals in the area of biodiversity.



Picture 1. III Meeting of Advisory Committee

## 1.2 Library Network

The BHL-SciELO library network includes the following 13 national institutions with the main collections in biodiversity:

- Oswaldo Cruz Foundation;
- Zoobotanic Foundation;
- National Amazon Research Institute (*request for inclusion granted in the II Meeting*);
- Butantan Institute;
- Botanic Institute of the Sao Paulo State;
- Rio de Janeiro Botanical Garden;
- Ministry of Environment;

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- National Museum;
- Emilio Goeldi Museum;
- State University of Campinas;
- Federal University of Parana;
- Federal University of Rio Grande;
- University of Sao Paulo.

Libraries have the main function of cooperating with the development of information sources, particularly by scanning essential biodiversity works of their respective collections.

## 2 BHL-SciELO Network and information sources

The BHL-SciELO Network Portal (<http://www.bhlsciELO.org>) was developed to integrate biodiversity information sources, through a multilingual interface, developed as result of the implementation of the SciELO Biodiversity Project and the Essential Biodiversity Works Scanning Project.

Launched on December 2010, the Portal (Picture 1) provides access and integrated research to over 158 thousand open access scientific and technical records on biodiversity in the following information sources:

- *BHL Brazil*: scanned works within gBHL, including books about Brazilian fauna and flora, and national scientific journals;
- *BHL Global*: works – journals and books – which integrate the biodiversity global network of libraries (gBHL);
- *Portal of Biodiversity Journals*: open access Latin American scientific journals specialized in biodiversity;
- *Legislation*: updated collection of national laws and international treaties, with links to their full content;
- *BIOTA/FAPESP Repository*: bibliographic records of articles produced within BIOTA/FAPESP Program;

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- *ThesBio: biodiversity thesaurus*: multilingual hierarchic tool with biodiversity terms in Portuguese and English languages.

Besides the indexation and access to scientific and technical literature, the portal offers: a) a selected catalog of national and international biodiversity blogs; b) an interactive tool to record events; c) a post aggregating tool to collect daily new posts from the 105 biodiversity catalogued blogs; d) a Collaborative Space (Eco Biodiversidade) – a virtual environment for information sharing to the Library Network.



Picture 2. BHL-SciELO Network Portal home page

## 2.1 BHL Brazil, BHL Global and the scanning of Brazilian works

The collections BHL Brazil and BHL Global will be available on the BHL-SciELO Network Portal and include, respectively, **371 works** on biodiversity related to Brazil and scanned by the institutions that form the gBHL, and **108.537 works** on biodiversity of other regions of the planet, scanned by gBHL.



Besides the works already scanned by gBHL, until the end of 2013 the Collection BHL Brazil will include around 2,000 scanned works from the institutions that form the Brazilian Network of Libraries for Biodiversity, selected by the Advisory Committee by previously defined criteria.

With resources provenient from PROBIO II, the scanning equipment necessary to the technological infrastructure were acquired, which will allow the local scanning of works. 5 Scanning Centres will be built to operate simultaneously in 3 to 5 institutions of the Brazilian Network of Libraries for Biodiversity.

From January 2012, the scanning operation started in two Brazilian institutions – the USP Zoology Museum (MZUSP) and the Butantan Institute (IB) – and in December 2012, the scanning operation started in the Rio de Janeiro Botanical Garden. The following, are the results of scanning activities by December 2012:

<b><i>Journals</i></b>	<b><i>Books</i></b>	<b><i>Total</i></b>
<b>18</b> journal titles	<b>92</b> books	<b>505</b> works
<b>413</b> fascicles	<b>26.617</b> pages	<b>116.950</b> pages
<b>90.333</b> pages		

As part of the scanning process, an open source version of the Macaw software was installed in



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the BHL-SciELO Network server, offered by gBHL, to attribute and process metadata of scanned pages and dispatch of these files to the Internet Archives. The testing phase with the tool and with dispatch of metadata for the Internet Archive was finalized. The pilot processing operation and dispatch of metadata of the works to the Internet Archives should end in the next months.

## 2.2 Biodiversity Journals Portal

The Biodiversity Journals Portal (<http://portal.periodicos.bhlsciELO.org>) gathers the area's main Latin American journals, having been developed and aligned with SciELO Program's goal of increasing the access and visibility of research in biodiversity from Brazil and other countries of the SciELO Network through the publishing of open access scientific journals, thus contributing to increase their use and impact (Picture 2).

On June 2012, the portal counts with **39 scientific journals** (see Annex I), published in 5 countries of SciELO Network, allowing access to **1.339 fascicles**, **17.474 articles** and **523.825 citations**. The creation and development of the biodiversity journal collection is based in selection criteria defined by the Advisory Committee, according to the document available at:

<http://portal.periodicos.bhlsciELO.org/php/level.php?lang=pt&component=78&item=3>.

The screenshot shows the Biodiversity Journals Portal home page. The header includes the BHL SciELO logo and the title "Portal de Periódicos em Biodiversidade". The main content area is divided into several sections:

- Rede SciELO**: A section titled "coleções" listing countries: Argentina, Brasil, Chile, Colômbia, and México.
- Pesquisa artigos**: A search section with a "método" dropdown menu, a search bar "Entre com uma ou mais palavras onde por palavra", and a "Pesquisar" button. Below it is a "Lista periódicos" section with a "Por ordem alfabética - todos" dropdown menu and a list of letters: A B C D E F G H I K L M N P R Z.
- Biodiversidade em números**: A section titled "Uso do site" with a table of statistics:

40	Periódicos
1.302	Fascículos
17.423	Artigos
509.064	Citações
- Twitter**: A widget for the SciELO redesciELO Twitter account, showing a tweet from redesciELO.

The footer contains contact information for SciELO: "SciELO - Scientific Electronic Library Online", "FAPESP CNPq BIREME FapUNIFESP", "Rua Machado Brito, 430 - 04044-001 - São Paulo/SP - Brasil", "Tel: (55 11) 5080-8080 - Email: [scielo@bireme.org](mailto:scielo@bireme.org)". It also features logos for various institutions, including CAIXA, Ministério do Meio Ambiente, BRASIL, BHL, and FAPESP.

Picture 3. Biodiversity Journals Portal home page

## 2.3 SciELO Repository of Biodiversity Articles - BIOTA/FAPESP pilot

The SciELO Repository of Biodiversity Articles aims to facilitate the access and use of national scientific production published in journals which are not part of SciELO Network and are not present in international reference indexes through the development, management and operation of an open access repository of scientific articles related to biodiversity.

Currently, the pilot version of the repository is available, which is constituted by the bibliographic **metadata of 547 scientific articles** of BIOTA/FAPESP Program produced from 1999 to 2010 and published in 205 different national and international scientific journals of both open and restricted access.

Once consolidated on the BIOTA/FAPESP Repository, the SciELO Repository of Biodiversity Articles operation will be expanded nationwide in order to create a national repository of biodiversity.



## 2.4 ThesBio: thesaurus of biodiversity

The thesaurus created for the SciELO Biodiversity Project and identified as *ThesBio* (<http://thesaurus.bhlscielo.org>) is a multilingual thesaurus in the area of biodiversity, designed by USP Zoology Museum with the technical support of SciELO and resources originated from the SciELO Biodiversity Project.

Within BHL-SciELO Network, the ThesBio contributes with the structuration of biodiversity concepts and the creation of a cyber information infrastructure for the biodiversity area.

The ThesBio is a dynamic polihierarchic thesaurus, which assembles **4.144 biodiversity terms** and **2.731 definition or scope notes**, in English and Portuguese, allowing the use of a common technology for the indexation and research in these two languages. Being dynamic, it is constantly

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growing through alterations, replacements and creation of new terms or thematic areas (Picture 3).



Picture 4. ThesBio home page

## 2.5 EOL-Brazil: integration of the Fauna Catalogue with the List of Flora Species in a single biodiversity database

One of the main functionalities of BHL-SciELO Network regarding the scientific information cyber infrastructure is its interoperability through pre-defined or dynamic links between the full content of scientific literature and other information sources, especially the species lists and catalogues. These links are mainly processed through ThesBio concepts or species names identified in the texts. In case of species names, the BHL methodology, developed with open solutions, operates with links with the Encyclopedia of Life, coordinated by the Smithsonian Institution, which also leads the BHL.

The BHL-SciELO Network will adopt the same methodology through EOL Brazil development, which will operate as a central indexer of species names related to Brazil and described in the different national and international lists and catalogues. The species records within EOL will have links to the complete record of the original source, as well as to the scientific literature within BHL-SciELO.

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The coordination of the List of Brazilian Flora Species has approved the participation of EOL Brazil by request of the Advisory Committee of BHL-SciELO Network. As a result, by the end of 2012 all species present in the List of Brazilian Flora Species should be integrated in the EOL and therefore qualified for linkage with the scientific literature.

The coordination of the List of Brazilian Flora Species has approved the participation of EOL Brazil by request of the Advisory Committee of BHL-SciELO Network. As a result, by the end of first quarter of 2013 all species present in the List of Brazilian Flora Species should be integrated in the EOL and therefore qualified for linkage with the scientific literature.



The coordination of the Catalogue of Brazilian Fauna Species, which is presently under development, has also approved its integration with EOL Brazil, and by the end of first semester of 2013 some groups of species should also be operating in the EOL.

### 3 Technological architecture and new applications

For the operation of scanning activities of essential biodiversity works, an infrastructure composed by Storage, Library Tape, LTO tapes, storage units (NAS), External HDs and Desktops was adopted.

The new technological architecture will have a storage infrastructure composed by a local infrastructure for the Scanning Centers, and a central infrastructure to assure the perseverance and publishing of scanned data, uninterruptedly for a period of 2 years.

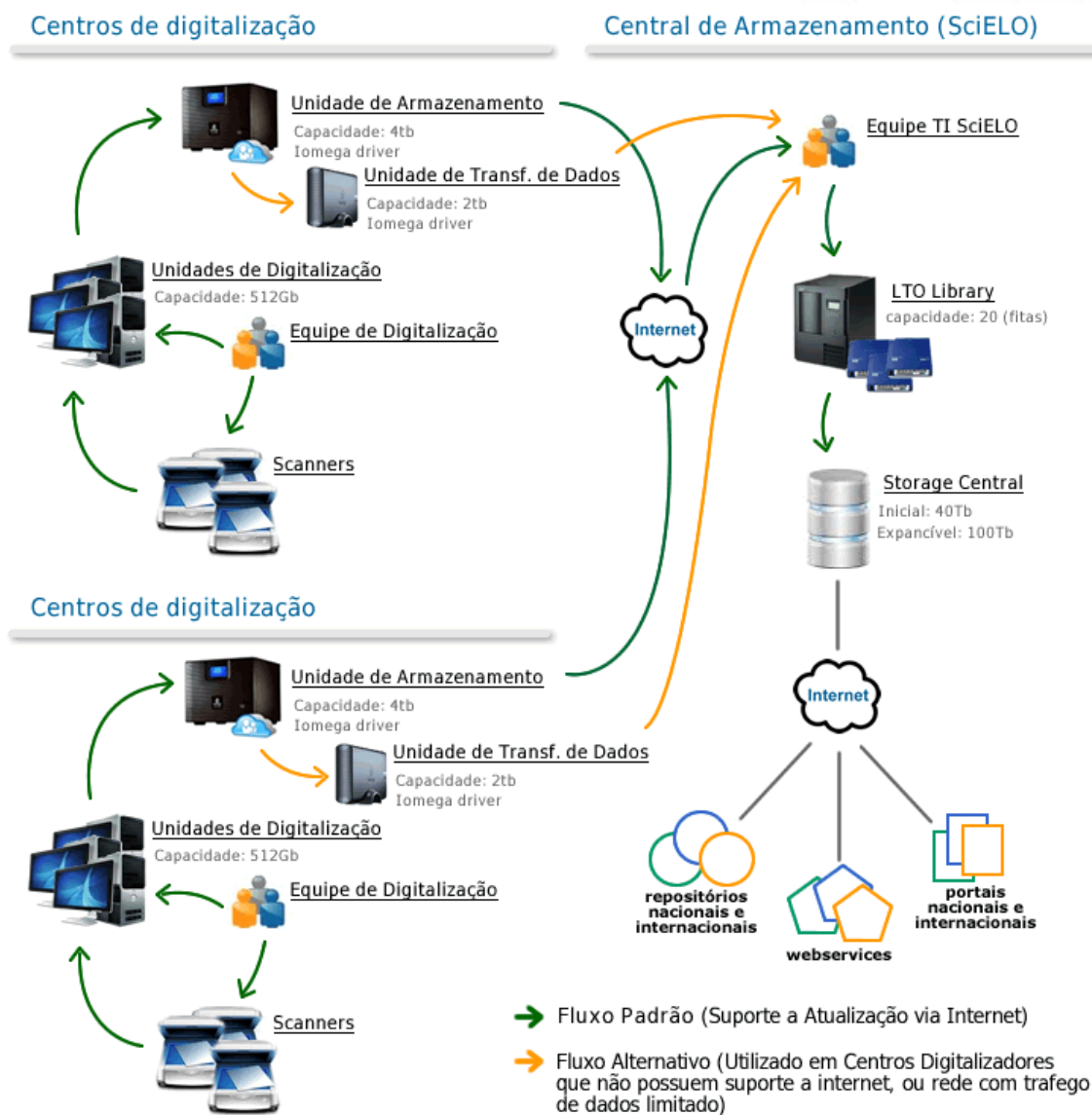
This architecture aims to provide autonomy to the Scanning Centers during the scanning process, and also to ensure safe storage of scanned content while it is in the evaluation and production



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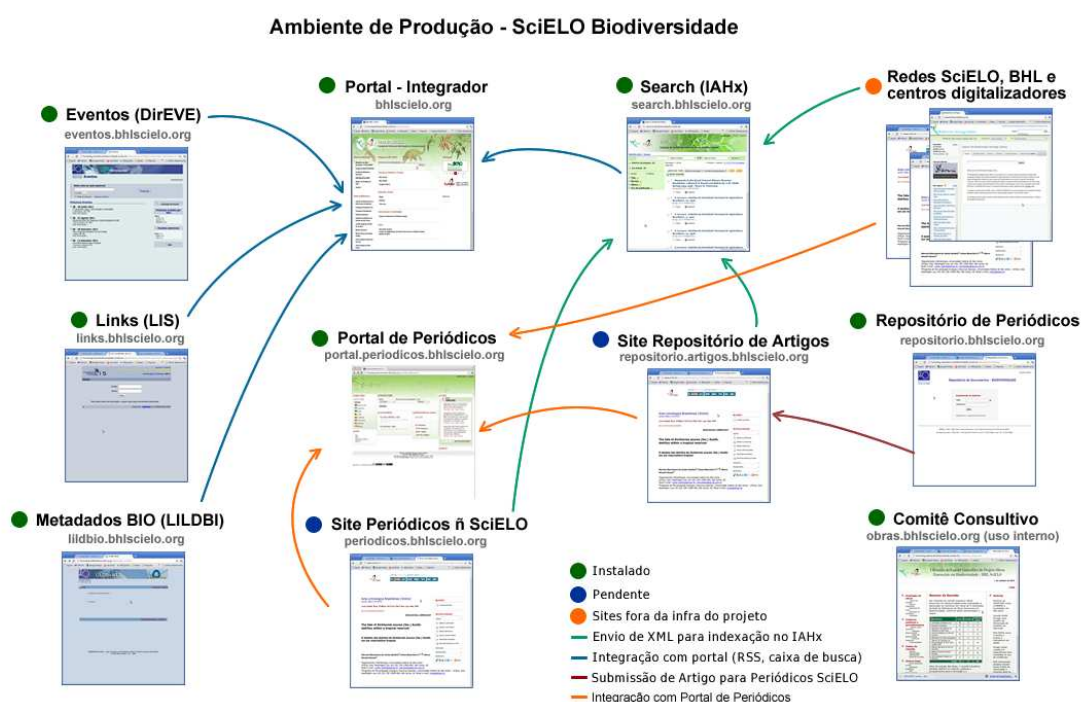
phases within Scanning Centers, as well as to secure all resources necessary to the safety and availability of scanned works in a Central Storage System.

Picture 5 depicts the technology architecture of BHL-SciELO Network:



Picture 5. Technology Architecture of BHL-SciELO Network

Picture 6 presents all applications that compose the BHL-SciELO Network, as follows: a) event recording tool (DirEve); b) link recording tool (LIS); c) bibliographic recording tool of scanned works (LILDBI); d) integrated content research tool (iAHx); e) Repository of Biodiversity Articles; f) storage website for articles submitted to the repository; g) website to make available journals about biodiversity that are not available in the SciELO Network; h) portal for SciELO biodiversity journals; i) thesaurus management tool (TemaTres); and j) website for committee meetings.



Picture 6. BHL-SciELO Network Applications

## 4 Publicization of BHL-SciELO Network

The divulgation and marketing of SciELO Biodiversity Project include the following lines of action:

- Participation in congresses, courses and other national and international events, where its development status, methodology and technologies will be presented;

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- Publishing of posts related to SciELO Biodiversity Project and BHL-SciELO Network on SciELO Twitter, which on December 2012 counts with 17.474 followers;
- Preparation of promotional material;
- Publicization of SciELO Biodiversity Project and BHL-SciELO Network in the website of the institutions that form the Brazilian Network of Libraries for Biodiversity.

# Annex

## Annex 1

### Biodiversity Journals Portal – list of titles

#	Title	ISSN	URL	Collection
1	Acta Amazonica	0044-5967	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0044-5967&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0044-5967&amp;lng=pt&amp;nrm=iso</a>	Brazil
2	Acta Botanica Brasilica	0102-3306	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0102-3306&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0102-3306&amp;lng=pt&amp;nrm=iso</a>	Brazil
3	Acta Botánica Mexicana	0187-7151	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0187-7151&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0187-7151&amp;lng=es&amp;nrm=iso</a>	Mexico
4	Acta Limnologica Brasiliensia (Online)	2179-975X	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=2179-975X&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=2179-975X&amp;lng=pt&amp;nrm=iso</a>	Brazil
5	Acta Zoológica Mexicana	0065-1737	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0065-1737&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0065-1737&amp;lng=es&amp;nrm=iso</a>	Mexico
6	Anais da Sociedade Entomológica do Brasil	0301-8059	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0301-8059&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0301-8059&amp;lng=pt&amp;nrm=iso</a>	Brazil
7	Biota Neotropica	1676-0603	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1676-0603&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1676-0603&amp;lng=pt&amp;nrm=iso</a>	Brazil
8	Boletín Científico. Centro de Museos. Museo de Historia Natural	0123-3068	<a href="http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0123-3068&amp;lng=en&amp;nrm=iso">http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0123-3068&amp;lng=en&amp;nrm=iso</a>	Colombia
9	Boletín de Investigaciones Marinas y Costeras - INVEMAR	0122-9761	<a href="http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0122-9761&amp;lng=en&amp;nrm=iso">http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0122-9761&amp;lng=en&amp;nrm=iso</a>	Colombia
10	Boletín de la Sociedad Argentina de Botánica	1851-2372	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1851-2372&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1851-2372&amp;lng=es&amp;nrm=iso</a>	Argentina
11	Boletín de la Sociedad Botánica de México	0366-2128	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0366-2128&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0366-2128&amp;lng=es&amp;nrm=iso</a>	Mexico
12	Brazilian Journal of Botany	1806-9959	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1806-9959&amp;lng=en&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1806-9959&amp;lng=en&amp;nrm=iso</a>	Brazil
13	Brazilian Journal of Oceanography	1679-8759	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1679-8759&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1679-8759&amp;lng=pt&amp;nrm=iso</a>	Brazil
14	Caldasia	0366-5232	<a href="http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0366-5232&amp;lng=en&amp;nrm=iso">http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0366-5232&amp;lng=en&amp;nrm=iso</a>	Colombia
15	Darwiniana: revista del Instituto de Botánica Darwinion	0011-6793	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0011-6793&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0011-6793&amp;lng=es&amp;nrm=iso</a>	Argentina



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#	Title	ISSN	URL	Collection
16	Ecología Austral	1667-782X	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1667-782X&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1667-782X&amp;lng=es&amp;nrm=iso</a>	Argentina
17	El Hornero: revista de ornitología neotropical	0073-3407	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0073-3407&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0073-3407&amp;lng=es&amp;nrm=iso</a>	Argentina
18	Gayana (Concepción): international journal of biodiversity, oceanology and conservation	0717-6538	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0717-6538&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0717-6538&amp;lng=pt&amp;nrm=iso</a>	Chile
19	Gayana. Botánica	0717-6643	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0717-6643&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0717-6643&amp;lng=pt&amp;nrm=iso</a>	Chile
20	Hoehnea	2236-8906	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=2236-8906&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=2236-8906&amp;lng=pt&amp;nrm=iso</a>	Brazil
21	Iheringia. Série Zoologia	0073-4721	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0073-4721&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0073-4721&amp;lng=pt&amp;nrm=iso</a>	Brazil
22	Kurtziana	1852-5962	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1852-5962&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1852-5962&amp;lng=es&amp;nrm=iso</a>	Argentina
23	Latin American Journal of Aquatic Research	0718-560X	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0718-560X&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0718-560X&amp;lng=pt&amp;nrm=iso</a>	Chile
24	Mastozoología Neotropical	0327-9383	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0327-9383&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0327-9383&amp;lng=es&amp;nrm=iso</a>	Argentina
25	Neotropical Ichthyology	1679-6225	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1679-6225&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1679-6225&amp;lng=pt&amp;nrm=iso</a>	Brazil
26	Papéis Avulsos de Zoologia (São Paulo)	0031-1049	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0031-1049&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0031-1049&amp;lng=pt&amp;nrm=iso</a>	Brazil
27	Phyton (Buenos Aires): revista internacional de botánica experimental	1851-5657	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1851-5657&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1851-5657&amp;lng=es&amp;nrm=iso</a>	Argentina
28	Polibotánica	1405-2768	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=1405-2768&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=1405-2768&amp;lng=es&amp;nrm=iso</a>	Mexico
29	Revista Brasileira de Botânica	0100-8404	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0100-8404&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0100-8404&amp;lng=pt&amp;nrm=iso</a>	Brazil
30	Revista Brasileira de Entomologia	0085-5626	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0085-5626&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0085-5626&amp;lng=pt&amp;nrm=iso</a>	Brazil
31	Revista Brasileira de Zoologia	0101-8175	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0101-8175&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0101-8175&amp;lng=pt&amp;nrm=iso</a>	Brazil
32	Revista chilena de historia natural	0716-078X	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0716-078X&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0716-078X&amp;lng=pt&amp;nrm=iso</a>	Chile
33	Revista Colombiana de Entomología	0120-0488	<a href="http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0120-0488&amp;lng=en&amp;nrm=iso">http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0120-0488&amp;lng=en&amp;nrm=iso</a>	Colômbia
34	Revista de Biología Marina y Oceanografía	0718-1957	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0718-1957&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0718-1957&amp;lng=pt&amp;nrm=iso</a>	Chile
35	Revista de la Sociedad	0373-5680	<a href="http://www.scielo.org.ar/scielo.php?script=sci_ser">http://www.scielo.org.ar/scielo.php?script=sci_ser</a>	Argentina

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#	Title	ISSN	URL	Collection
	Entomológica Argentina		ial&pid=0373-5680&lng=es&nrm=iso	
36	Revista del Museo Argentino de Ciencias Naturales	1853-0400	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1853-0400&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1853-0400&amp;lng=es&amp;nrm=iso</a>	Argentina
37	Revista Internacional de Contaminación Ambiental	0188-4999	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0188-4999&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0188-4999&amp;lng=es&amp;nrm=iso</a>	México
38	Revista Mexicana de Biodiversidad	1870-3453	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=1870-3453&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=1870-3453&amp;lng=es&amp;nrm=iso</a>	Mexico
39	Zoologia (Curitiba, Impresso)	1984-4670	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1984-4670&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1984-4670&amp;lng=pt&amp;nrm=iso</a>	Brazil

## Annex 2

### Books scanned by 2012 December

Institutions	Author	Title	Pages
Museu de Zoologia da USP	C. Costa; S. A. Vanin; S. A. Casari	Larvas de Coleoptera do Brasil	488
Museu de Zoologia da USP	GOELDI, Emilio A.	Álbum de Aves Amazônicas	12
Museu de Zoologia da USP	LUEDERWALDT, H.	Zur Lebensweise des lagarto	12
Museu de Zoologia da USP	ÓRBIGNY, Alcide D'.	Voyage dans L'Amérique Méridionale	62
Museu de Zoologia da USP	Pinto, Olivério M. de O.	Catálogo de Aves do Brasil	700
Museu de Zoologia da USP	Torquato Tapajós	Estudos sobre o Amazonas	93
Instituto Butantan	Amaral, Afrânio do	Animais venenosos do Brasil	102
Instituto Butantan	Amaral, Afrânio do	Bulletin of the Antiven Institute of America	130
Instituto Butantan	Amaral, Afrânio do	A general consideration of snake poisoning and observations on neotropical pit-vipers	110
Instituto Butantan	Brazil, Vital	A defesa contra o ophidismo	188
Instituto Butantan	Brazil, Vital	La déphense contre l'ophidisme	332
Instituto Butantan	Fonseca, Flávio da	Animais peçonhentos	416
Instituto Butantan	Hoehne, F. C.	As plantas ornamentaes da flora brasilica e o seu papel como factores da salubridade publica, da esthetica rubana e artes decorativas nacionaes	196
Instituto Butantan	Hoehne, F. C.	A flora do Brazil : recenseamento de 1920	204
Instituto Butantan	Hoehne, F. C.	Botanica : parte XII Contribuição ao conhecimento das leguminosas da Rondonia	68
Instituto Butantan	Hoehne, F. C.	Botanica : parte IX bromeliaceas e orchidaceas	86
Instituto Butantan	Hoehne, F. C.	Botanica : parte VIII leguminosas	174
Instituto Butantan	Kraus, Rodolpho	Noções gerais sobre cobras	120
Instituto Butantan	Kraus, Rodolpho; Werner, Franz	Giftschlangen und die serumbehandlung der schlangenbisse	236
Instituto Butantan	Leitão, Cândido Firmino de Mello	Estudo monográfico dos escorpiões da República Argentina	118
Instituto Butantan	Neiva, Arthur	Revisão do genero triatoma lap.	90
Instituto Butantan	Picado T., Clodomiro	Nuestras serpientes venenosas : soroterapia anti-ofídica	72
Instituto Butantan	Picado T., Clodomiro	Serpientes venenosas de Costa Rica : sus venenos soroterapia anti-ofídica	236
Instituto Butantan	Albin, Eleazar	A natural history of spiders and others curious insects	206
Instituto Butantan	Berland, Lucien	Encyclopédie entomologique. Série A, v. 16 - Les arachnides : scorpions, araignées, etc.	396
Instituto Butantan	Blackwall, John	A history of the spiders of Great Britain and Ireland	522

Instituto Butantan	Comstock, John Henry	The spider book : a manual for the study of the spiders and their near relatives, the scorpions, pseudoscorpions, whip-scorpions, harvestmen, and other members of the class arachnida, found in America North of Mexico, with analytical keys for their classification and popular accounts of their habits	746
Instituto Butantan	Dahl, Friedrich	Die tierwelt Deutschlands und der angrenzenden meeressteile nach ihren merkmalen und ihrer lebensweise. v. 1, tomo 1 - spinnentiere oder arachnoidea : springspinnen (salticidae)	69
Instituto Butantan	Decker, João Siegfried	Aspectos biológicos da flora brasileira	678
Instituto Butantan	Ditmars, Raymond L.	Snakes of the world	314
Instituto Butantan	Fitzsimons, F. W.	Snakes and the treatment of snake bite	80
Instituto Butantan	Fitzsimons, F. W.	Snakes	326
Instituto Butantan	Hoehne, F. C.	Album da secção de botanica do Museu Paulista e suas dependencias, etc.	235
Instituto Butantan	Jan, G.	Elenco sistematico degli ofidi : descritti e disegnati	150
Instituto Butantan	Menge, A.	Preussische spinnen	944
Instituto Butantan	Ortenburguer, Arthur Irving	The whip snakes and racers : genera masticophis and coluber	371
Instituto Butantan	Oudemans, A. C.	The great sea-serpent : na historical and critical treatise	616
Instituto Butantan	Rinn, Paul	Le venin des vipères françaises : l'envenimation vipérique et la sérothérapie antivenimeuse	218
Instituto Butantan	Schmidt, Karl P.; Davis, Dwight D.	Field book of snakes of the United States and Canada	392
Instituto Butantan	Scortecci, Giuseppe	Gli ofidi velenosi dell'Africa italiana	318
Instituto Butantan	Serié, Pedro	Las serpientes de la Argentina	26
Instituto Butantan	Aragão, Henrique de Beaufrepaire	Zoologia : ixodidas	30
Instituto Butantan	Blanchard, Raphaël	L'insecte et l'infection : histoire naturelle et médicale des arthropodes pathogènes. v. 1 acariens	172
Instituto Butantan	Bondar, Gregorio	Aleyrodideos do Brasil : catalogo descriptivo dos hemipteros-homopteros da familia dos aleyrodideos, insectos parasitas das plantas, encontrados no Brasil	202
Instituto Butantan	Brasil, Ministério da Agricultura, Serviço florestal	Album floristico	145
Instituto Butantan	Cunha, Aristides Marques da	Contribuição para o conhecimento da fauna de protozoarios do Brazil	118
Instituto Butantan	Ducke, Adolpho	Novas contribuições para o conhecimento das vespas (vespidae sociales) da região neotropical	67
Instituto Butantan	Ducke, Adolpho	Sobre as vespidas sociaes do Pará	72
Instituto Butantan	Fonseca, Eurico Teixeira da	Plantas Medicinales Brasileñas	118
Instituto Butantan	Fremery, Paul de	Over neotenie bij triton taeniatus laur	196
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Instituto Butantan	González, Matías; Coppetti, Víctor;Lombardo, Atilio	Plantae diaphoricae : florum uruguayensis	162
Instituto Butantan	Guittou, Eugène	Nouvelle classification zoologique basé sur les appareils et les fonctions de la reproduction	172
Instituto Butantan	Ihering, Rodolpho von	Dicionário dos animais do Brasil	905
Instituto Butantan	Ihering, Rodolpho von	Historia natural dos mais interessantes animais do Brasil	126
Instituto Butantan	Koch, C. L.	Übersicht des arachnidensystems	190
Instituto Butantan	Lane, J.	Catálogo dos mosquitos neotrópicos	240
Instituto Butantan	Lima, A. da Costa	Insetos do Brasil. Tomo 1	490
Instituto Butantan	Lima, A. da Costa	Insetos do Brasil. Tomo 2, capítulo 22 - Hemípteros	369
Instituto Butantan	Lynch Arribáizaga, Félix	Dipterología argentina	92
Instituto Butantan	Magalhães, Agenor Couto de	Ensaio sobre a fauna brasileira	392
Instituto Butantan	Martyn, Thomas (org.); Albin, Eleazar; Charles Clerck	Aranei, or a natural history of spiders (including the principal parts of the well known work "English spiders" by Eleazar Albin it's also the whole of the celebrated publication "Swedish spiders" by Charles Clerck	186
Instituto Butantan	Museu Paulista; Ihering, Herman von; Ihering, Rodolpho von; Brölemann, Henri W.	Catalogos da fauna brasileira editados pelo Museu Paulista : as aves do Brasil. v. 1; os myriapodos do Brasil, v. 2	656
Instituto Butantan	Perrier, Edmond	Anatomie et physiologie animales. 3.ed.	627
Instituto Butantan	Perrier, Edmond	Traité de zoologie. v. 7 Les batraciens	172
Instituto Butantan	Peryassú, Antonio Gonçalves	Os culicídeos do Brasil	510
Instituto Butantan	Pessoa, Samuel B.	Contribuição para o conhecimento das espécies brasileiras do genero Phanaeus (Col. Scarabaeidae)	66
Instituto Butantan	Philippi, R. A.	Suplementos a los batraquios chilenos descritos en la Historia Física e Política de Chile de don Claudio Gay	174
Instituto Butantan	Pinto, Cesar	Tratado de parasitologia : artrópodos parasitos e transmissores de doenças	416
Instituto Butantan	Pinto, Cesar	Tratado de parasitologia : artrópodos parasitos e transmissores de doenças	528
Instituto Butantan	Pinto, Cesar	Ensaio monographico dos reduvidos hematophagos ou "barbeiros"	126
Instituto Butantan	Pinto, Oliveira M. de Oliveira	Catalogo das aves do Brasil e lista dos exemplares que as representam no Museu Paulista	598
Instituto Butantan	Prinzen, Maximilian	Beiträge zur naturgeschichte von Brasilien	654
Instituto Butantan	Prinzen, Maximilian	Beiträge zur naturgeschichte von Brasilien	647
Instituto Butantan	Prinzen, Maximilian	Beiträge zur naturgeschichte von Brasilien	657
Instituto Butantan	Prinzen, Maximilian	Beiträge zur naturgeschichte von Brasilien	516
Instituto Butantan	Rodrigues, J. Barbosa	Palmarum Novarum	59

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Instituto Butantan	Rohr, Carlos Jorge	Estudos sobre ixóidas do Brasil	260
Instituto Butantan	Santos, Eurico	Pássaros do Brasil : vida e costumes	330
Instituto Butantan	Santos, Eurico	Da ema ao beija-flor : vida e costumes das aves do Brasil	384
Instituto Butantan	Siebenrock, Friedrich	Schildkröten von brasilien	50
Instituto Butantan	Smith, Malcolm	Monograph or the sea-snakes (hydrophidae)	162
Instituto Butantan	Steindachner, Franz	Bericht über die herpetologischen aufsammlungen (Expedition S. M. "Pola" in das rothe Meer Nördliche und südliche hälfte - 1895/96 und 1897/98). v. 17	30
Instituto Butantan	Stejneger, Leonhard	Herpetology of Japan and adjacent territory	676
Instituto Butantan	Takaoka, S.	Noções para todos sobre cobreas venenosas no Brasil	126
Instituto Butantan	Tambs-Lyche, Hans	Die norwegischen spinnen der gattung pardosa koch	76
Instituto Butantan	Taschenberg, Otto	Die giftigen tiere: ein lehrbuch für zoologen, mediziner und pharmazeuten	352
Instituto Butantan	Travassos, Lauro; Neiva, Arthur (prefaciador)	Livro jubilar do professor Lauro Travassos	834
Instituto Butantan	Verdun, P.	Précis de zoologie	556
Instituto Butantan	Werner, Franz	Scorpiones, Pedipalpi	504
Instituto Butantan	Werner, Franz	Untersuchungen ueber die zeichnung der schlangen	150
Instituto Butantan	Winge, Herluf	Conspectus faunæ Groenlandicæ: mammalia - Grønlands pattedyr	217

**Pages: 26.617**  
**Books: 92**

## Annex 3

### Journals scanned by 2012 December

#	Institutions	Title	Issues	# Pages
1	Museu de Zoologia da USP	Biologico, O	48	2236
2	Museu de Zoologia da USP	Comissão das Linhas Telegráficas Estratégicas de Mato Grosso ao Amazonas	15	2856
3	Museu de Zoologia da USP	Entomologista Brasileiro, O	3	380
4	Museu de Zoologia da USP	Memórias do Museu Goeldi de História Natural e Ethnografia	1	415
5	Museu de Zoologia da USP	Notas Preliminares, Museu Paulista	8	301
6	Museu de Zoologia da USP	Papéis Avulsos do Departamento de Zoologia	4	1251
7	Museu de Zoologia da USP	Publicações do Conselho Nacional de Proteção aos Índios	20	8443
8	Museu de Zoologia da USP	Revista de Sciencias	3	278
9	Museu de Zoologia da USP	Revista do Museu Paulista	11	9757
10	Instituto Butantan	Memórias do Instituto Butantan	73	17196
11	Instituto Butantan	Coletâneas do Instituto Butantan	16	4909
12	Instituto Butantan	Monografias do Instituto Butantan	2	272
13	Instituto Butantan	Revista Brasileira Entomologia	108	17315
14	Jardim Botânico do Rio de Janeiro	A Lavoura	37	11276
15	Jardim Botânico do Rio de Janeiro	Archivos do Instituto de Biologia Vegetal	4	1202
16	Jardim Botânico do Rio de Janeiro	Arquivos do Serviço Florestal	1	294
17	Jardim Botânico do Rio de Janeiro	Contribuição à Dendrometria das Essências Florestais	1	364
18	Jardim Botânico do Rio de Janeiro	Rodriguesia	58	11588

**Pages: 90.333**  
**Issues: 413**  
**Titles: 18**