



**Experiences of better services in information provision**  
THE 27TH ANNUAL CONFERENCE:

**EMBEDDING LIBRARIES IN LEARNING AND RESEARCH**

Faculdade de Engenharia, Porto, Portugal | May 22 - 25, 2006



Internacional Association  
of Technological University Libraries



FACULDADE DE ENGENHARIA  
UNIVERSIDADE DO PORTO



# **Macro trends in the development of the university libraries of Latin America:** in special focused on innovation in learning and research process

Atilio Bustos González  
Director Sistema de Biblioteca  
Pontificia Universidad Católica de Valparaíso  
Chile



## **Presentation schedule:**

- \* The library as generator of changes
- \* The library is leader in services
- \* The library develop changes in learning
- \* The library support of research

# The library as **GENERATOR** of changes

Conclusions of an analysis of mission and vision declaiming and strategic planning of academic libraries:

- **Different levels of involvement** of libraries in learning and research process.
- In general use soft verbs, not verb of action.  
It is indicative of low levels of compromise.
- **Low quantity of innovative institutions maintain leaders initiatives.**  
This presentation is focused in this institutions.
- This institutions implement **new forms of evaluation** of results and **outcomes on different stakeholders**, at level of research and learning.
- They maintain **multidisciplinary professional teams**.



# The library is **LEADER** in services

The successful libraries introduce in own organizations:

- Different forms of **evaluation of the services**  
(satisfaction as a measure of quality, fulfilment of standards, focus groups, **institutional goals in strategic plans of the University, level of contribution to institutional mission**).
- They use different procedures to **evaluate the personnel**  
(360° evaluation, negotiated goals, evaluation based on standards, evaluation based on observed behaviour).
- **Compensation variable of the library director, associated to an evaluation of quality of services.**

They are **accredited** by their contribution at **institutional level**, and of **academic programmes** as well as their own library services.

# The library develop **CHANGES** in learning

The most innovative institutions:

- Introduce new layouts in recognitions of **different styles of learning**.  
The library is **place of learning** in constructivist theory (**Ágora**).
- The library organize improvement **courses for academics**,  
with visitant professors. The change start in classroom.
- Introduce **didactic strategies** for the use of ICT's.
- Create **learning objects repositories** – the virtual library of under grade.  
Key contents for maths, physics... Dspace...Biblioteca Ágora.
- Develop **learning assurance programs**, by example:  
organizing courses of initial skills in mathematics +  
calculator for loan + interface for teaching.

**Indicator:** level of increase the approbation in the courses of first and second year, retention, years for complete studies.

## Case 1

## Biblioteca de Babel

An ALPHA project managed from Southern Cone, that includes 10 European and 15 Latin American universities.

Its objective is to systematize and **document how** European and Latin American universities are **integrating their library services with new teaching practices** based on information and communication technologies, identifying methodologies for developing this integration as well as evaluation strategies of achieved impacts on the quality of university instruction and the teaching-learning process.

It works in three lines: e-learning and repositories of learning objects, scientific information repositories, and digital reference.

More information in <http://agora.ucv.cl>

Recursos de aprendizaje - Microsoft Internet Explorer

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Dirección http://agora.ucv.cl/index.php?ple=go

Sistema de Biblioteca  
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# Biblioteca ágora

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## Usuarios registrados

**Código:**  
alumnos ingresar rut  
ej: 12345678k  
  
**visita**

**Contraseña:**  
alumnos ingresar rol PUCV  
ej: 123456k  
  
**visita**

Entrar

## Nuevos Usuarios

**Profesores:**  
Solicitar cuenta  
Recordar la contraseña

**Estudiantes:**  
No dispongo de identificador

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Buscar recurso por:

Nombre / apellido:

Asignatura:

Carrera:

Buscar

### Bienvenidos

**Biblioteca Ágora** es una herramienta que permite a **los profesores** gestionar en forma autónoma los documentos disponibles en la Biblioteca Virtual de Pregrado.

**Biblioteca Ágora** es un servicio que permite a **los alumnos** acceder a recursos de estudio sin necesidad de trasladarse geográficamente. Los documentos cargados en **Biblioteca Ágora** se organizan en carpetas divididas por carreras y asignaturas, para facilitar su **ubicación**.

En **Biblioteca Ágora** se pueden encontrar **toda clase de entidades digitales**, como por ejemplo: documentos de texto y multimediales, bibliografía obligatoria y complementaria del curso.

Para mayores informaciones contacta al Sistema de Biblioteca de la Pontificia Universidad Católica de Valparaíso: [sistema@ucv.cl](mailto:sistema@ucv.cl) o al 2264112264

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Recursos de aprendizaje - Microsoft Internet Explorer

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# The library **SUPPORT** of research

The academic authority estimate **the library add value** to research process and support the develop of post graduate programs, with:

- Scientific information repositories:  
SciELO <http://www.SciELO.info>  
Cybertesis <http://www.cybertesis.net>

**Indicator:** level of increase citation of own production.

- Others large databases of regional information data:  
Latindex <http://www.latindex.org>  
Creative Commons introduced for SISIB -UChile  
Clase & Periodica of UNAM

# Case 2

http://www.scielo.org/index.php?lang=en - Microsoft Internet Explorer

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Scientific Electronic Library Online

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The International Seminar on Open Access for Developing Countries

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  - Ciência e Tecnologia de Alimentos - 26(1)
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**Highlights**

Open Access and SciELO are discussed at event promoted by the Unicamp

eHealth at the IV EU – LA & C Ministerial Forum on Information Society in Lisbon

eLAC2007 motivates meeting of representatives from LAC countries in Portugal

WHO launches new standard for children growth

Communication of science FAPESP

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Lista alfabética - Microsoft Internet Explorer

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SciELO

revistas  artículos

alfab materia búsqueda autor materia búsqueda

Colección de la biblioteca

Lista alfabética - 19 seriadas listadas

- ACIMED - 53 números
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- Revista Cubana de Plantas Medicinales - 24 números
- Revista Cubana de Salud Pública - 28 números

Brazil 157 journals Chile 56 journals Cuba 18 journals España 27 journals Public Health 8 journals.

**266 journals**

**In develop:** Venezuela, Argentina, Colombia, Costa Rica, México, Perú, Portugal and Uruguay.

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**Cybertesis**  
TESIS ELECTRÓNICAS EN LÍNEA

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1 Development of organocatalytic direct aldol transformations, total syntheses ...

Mangion, Ian Kyle 2006-05-25

The enantioselective amine-catalyzed direct aldol reaction of aldehydes has been accomplished for the first time using an imidazolidinone organocatalyst. That imidazolidinone catalyst, initially developed for LUMO-lowering activation of alpha, beta-unsaturated aldehydes, provides new insight into am

2 Multi-scale simulations of single-walled carbon nanotube atomic force microsc...

Solares, Santiago de Jesus 2006-05-11

This dissertation focuses on two theoretical research topics: Multiscale Simulations of Single-Walled Carbon Nanotube Atomic Force Microscopy (AFM, chapters 1 through 3) and Density Functional Theory Characterization of Functionalized and non-functionalized Silicon Surfaces (chapters 4 through 8). T

3 Novel reactivity at iron centers supported by poly(phosphino)borate ligands

Thomas, Christine Marie 2006-05-08

The reactivity of the iron(II) alkyl species [PhBPiPr3]FeMe ([PhBPiPr3] = PhB(CH2PiPr2)3-) towards Si-H bonds is presented. Reaction of [PhBPiPr3]FeMe with primary aryl silanes results in the unusual η3 silane adducts [PhBPiPr3]Fe(H)(η3-H2SiMeR). X-ray crystallography, Mössbauer spectroscopy

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Manning, David  
2006-05-25

2 Multi-scale simulation of carbon nanotube atomic force microsc...  
Solares, Santiago de  
2006-05-11

3 Novel reactivity at iron centers supported by poly(phosphino)borate ligands  
Thomas, Christine Marie  
2006-05-08

15.824 thesis

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Modelo para localização de instalações em escala global envolvendo... - Microsoft Internet Explorer

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**ESTE DOCUMENTO**  
Visitas 156  
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**OUTROS DOCUMENTOS**

- Exatas
- Unidade
- Área de concentração
- Autor
- Orientador

### Dissertação de Mestrado

**Título original** Modelo para localização de instalações em escala global envolvendo vários elos da cadeia logística.

**Autor** Hamad, Ricardo

**E-mail** ricardo.hamad@terra.com.br

**Unidade** Escola Politécnica (EP)

**Área de concentração** Engenharia de Sistemas Logísticos

**Orientador** x Gualda, Nicolau Dionisio Fares

**Banca Examinadora** x Gualda, Nicolau Dionisio Fares  
x Yoshizaki, Hugo Tsugunobu Yoshida  
x Yu, Abraham Sin Oih

**Data da Defesa** 12/04/2006

**Palavras-chave** x fatores críticos de localização  
x localização de instalações  
x Programação Linear Inteira Mista

**Resumo Original**

A localização de fábricas, fornecedores e/ou CDs é um problema de grande complexidade, principalmente em empresas com operações internacionais. Na literatura mundial são poucos os modelos desenvolvidos que tratam da localização de instalações em escala global. Este trabalho propõe um modelo de Programação Linear Inteira Mista que soluciona o problema minimizando os custos logísticos (custos fixos, custos de transferência, custos de distribuição, impostos não recuperáveis, estoques, take-or-pay, matéria-prima e custos de agregação de valor e transbordo) levando em consideração vários elos da cadeia de suprimentos. Como principais contribuições do modelo citam-se a inclusão de benefícios fiscais em transações internacionais, tais como o drawback, o cálculo pioneiro para custo no carregamento dos estoques e o tratamento dado aos custos tipo take-or-pay. São sugeridas adaptações do modelo para utilização em quaisquer segmentos de indústria. O modelo foi aplicado com sucesso em um caso real de uma indústria do segmento químico.

**Título em Inglês** Model for facilities location in a global scale considering several echelons in the supply chain.

**Palavras-chave em Inglês** x critical factors on facilities location  
x facilities location  
x Mixed Integer Linear Programming

**Resumo Original**

The location of factories, suppliers and distribution centers has always been a problem of great complexity, mainly for companies with global operations. In the literature, there are a few models developed for facilities location in a global scale. This work proposes a Mixed Integer Linear Programming model that solves the problem minimizing the logistics costs (fixed costs, transfer costs, distribution costs, non-recoverable taxes, stocks, take-or-pay, raw materials and costs of value aggregation and transshipment) considering several echelons of the supply chain. As main contributions of the model, it is cited the inclusion of fiscal benefits in international transactions, such as the drawback, the pioneering calculation for the cost of loading the stocks and the treatment given to the costs type take-or-pay. Adaptations of the model are suggested for use in any industrial segments. The model was successfully applied in a real case of a chemical industry segment.

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Microsoft PowerPoint ... Cybertesis.NET - Port... Modelo para localizaç...

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# The library **SUPPORT** of research

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# Case 4



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Dirección http://www.latindex.unam.mx/

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**latindex**

[ Centros de acopio ]

**Latindex** Es producto de la cooperación de una red de instituciones que funcionan de manera coordinada para reunir y diseminar información bibliográfica sobre las publicaciones científicas seriadas producidas en la región.

Nombre de la revista

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**BUSCAR EN:**

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Busqueda Avanzada

**Por Título**

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**Por País**

**19.916 journals**

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Resumen

Electronic Journal of Biotechnology es una revista electrónica científica internacional que publica artículos de todas las áreas relacionadas con la Biotecnología. Abarca desde biología molecular y la química de procesos biológicos, hasta aspectos ambientales del agua y de la tierra, así como aplicaciones computacionales y asuntos políticos relacionados con la Biotecnología.

The Electronic Journal of Biotechnology (EJB) is an international scientific electronic journal that publishes papers on all areas related to Biotechnology. Its coverage includes molecular biology, chemistry of biological process, aquatic and earth environmental aspects, as well as computational applications and policy issues directly related to Biotechnology.

Criterios Cumplidos

Folio	12889
Acopio	Chile
Fecha	15-11-2005
Tipo de Registro	Modificado
Título	Electronic Journal of Biotechnology
Título Abreviado	Electron. J. Biotechnol.
Título Propio	
País	Chile

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## The library **SUPPORT** of research

- Created and publishing Open Access journals as Electronic Journal of Biotechnology. The organizational effect is the validation.
- Generate and manage national consortiums for the access of scientific and technologic information (Capes, Altamira, Cincel).
- This libraries add value and generating key information for decision makers, researchers and librarians (Atlas of Science – SCImago Group UGR).
- Normalize authors to generate valid informs at person level – SCOPUS.

# Case 5

Electronic Journal of Biotechnology - Microsoft Internet Explorer

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Full Text - Biotransformation of anthracene and fluoranthene by *Absidia fusca* Linnemann - Microsoft Internet Explorer

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Environmental Biotechnology  
[Vol. 9 No. 2, Issue of April 15, 2006](#)  
Received June 6, 2005 / Accepted October 28, 2005

RESEARCH ARTICLE

**Biotransformation of anthracene and fluoranthene by *Absidia fusca* Linnemann**

**Danièle Villemain**  
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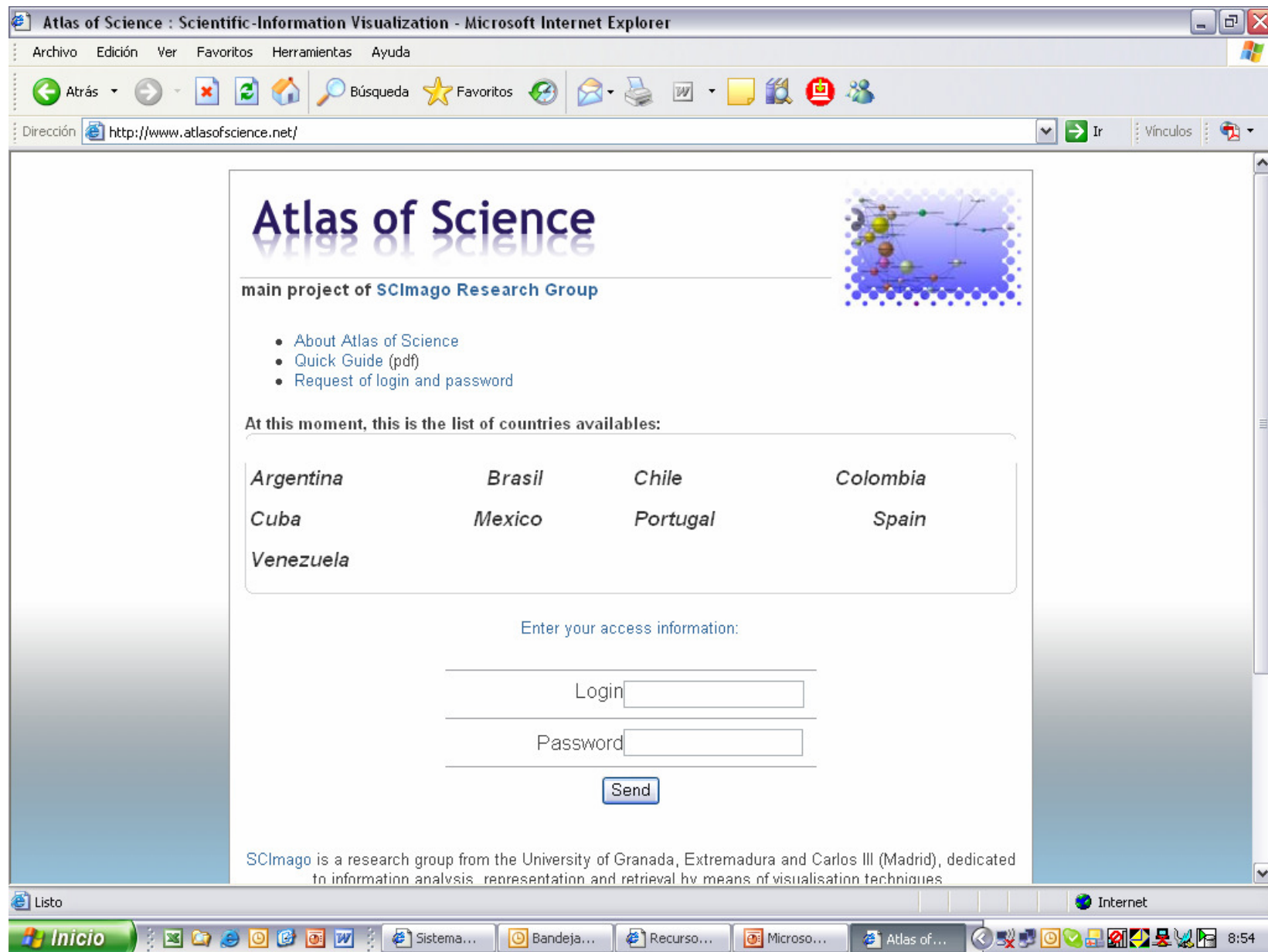
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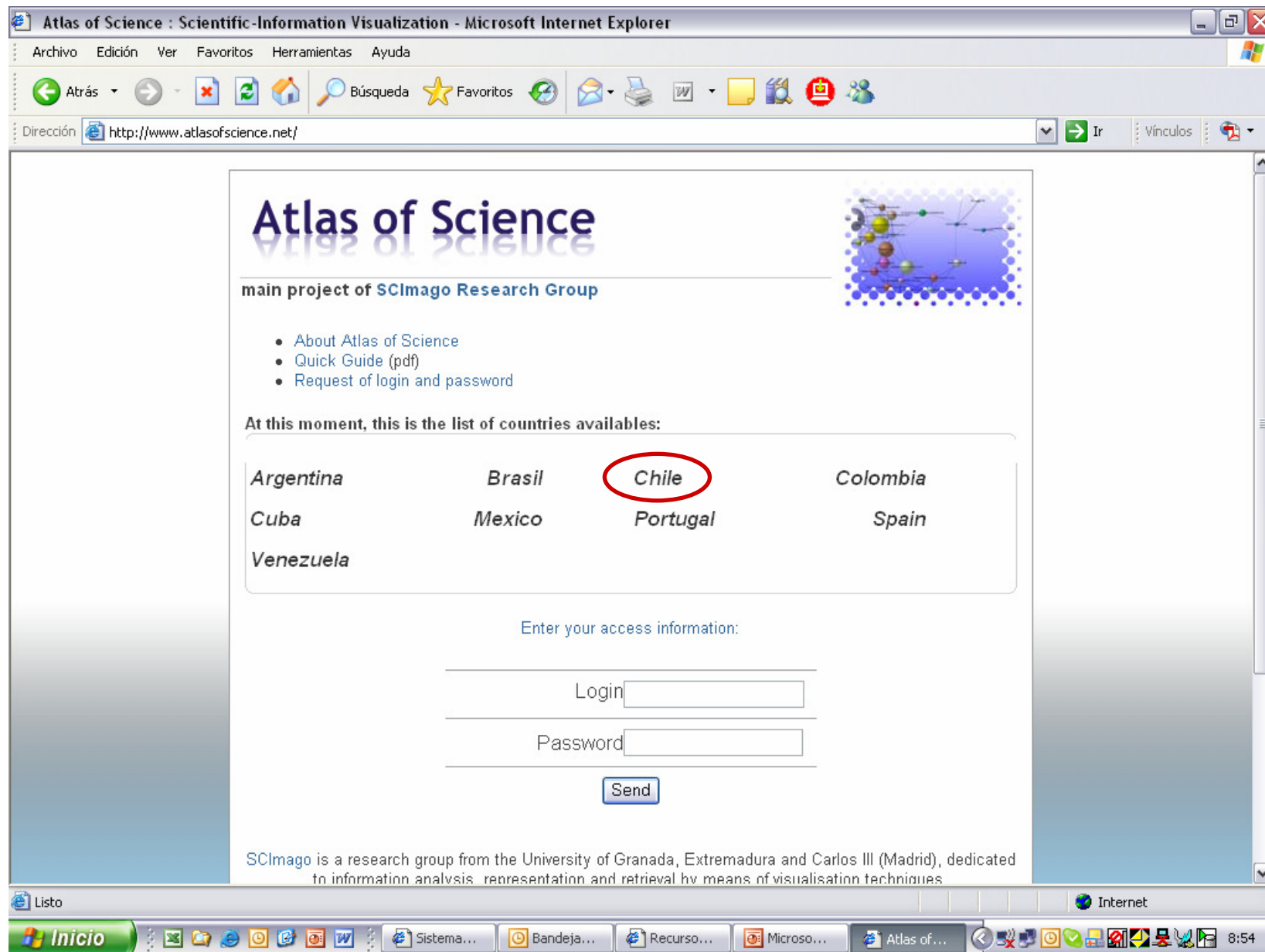
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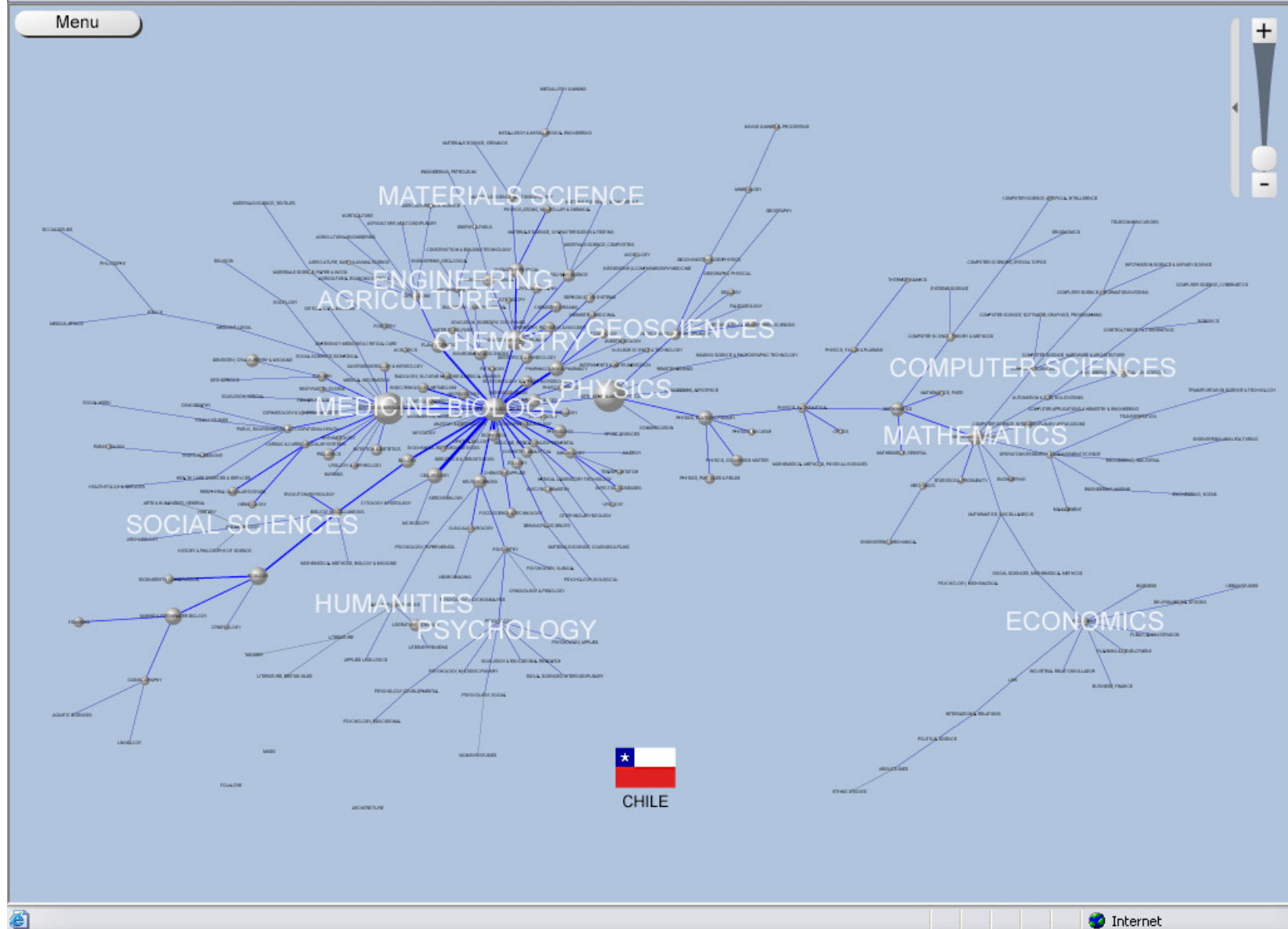
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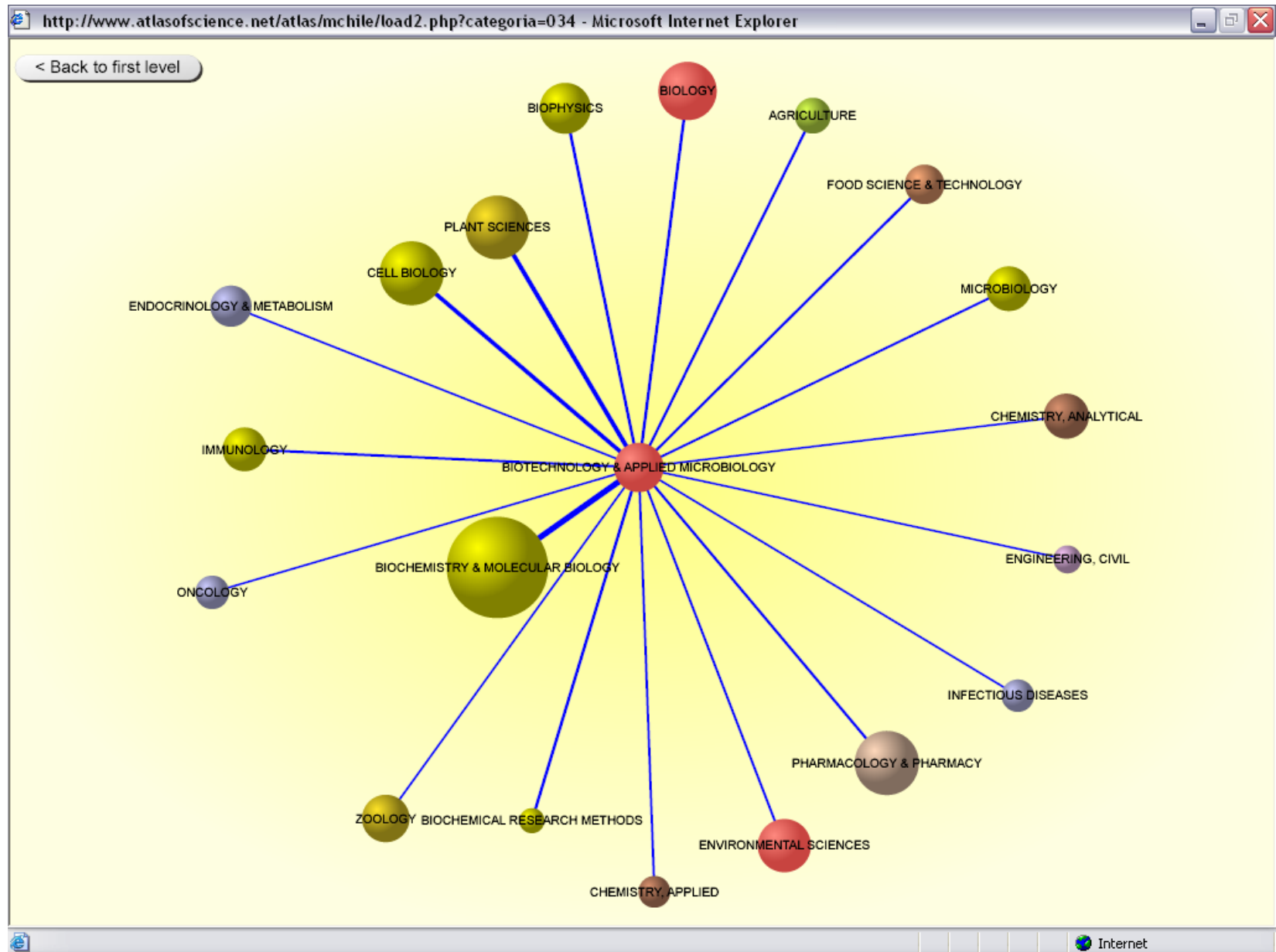
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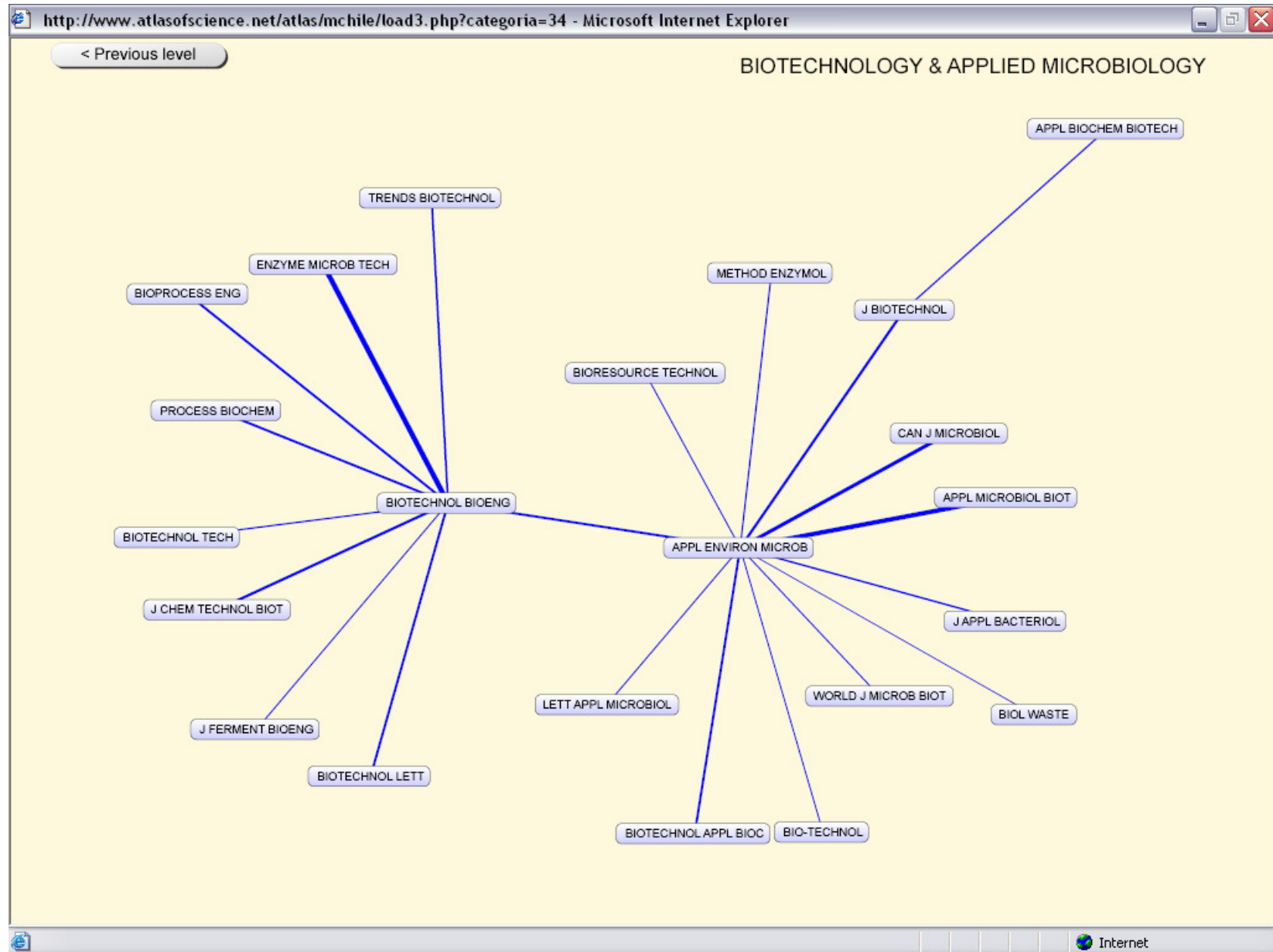




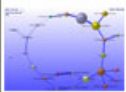








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1	47	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	2	2	2	3	2	2	3	3	6	2	2	2	2	6	8
2	33	JOURNAL OF APPLIED PHYCOLOGY	0	0	1	4	2	5	2	2	3	5	0	6	1	0	2
3	28	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	1	0	0	0	2	1	2	2	5	6	1	0	4	2	2
4	26	WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY	0	0	2	1	2	2	0	5	3	0	3	4	1	0	3
5	23	BIOTECHNOLOGY LETTERS	2	1	1	0	0	0	1	4	1	3	4	2	2	1	1
6	17	HYBRIDOMA AND HYBRIDOMICS	0	0	0	0	0	0	0	0	0	0	0	0	15	0	2
7	16	PROCESS BIOCHEMISTRY	1	0	0	0	2	0	0	0	0	1	2	1	3	4	2
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9	14	BIOPROCESS ENGINEERING	1	0	1	0	0	0	2	3	1	3	3	0	0	0	0
10	12	BIORESOURCE TECHNOLOGY	0	1	0	0	2	1	0	1	2	1	2	1	1	0	0
11	11	JOURNAL OF BIOTECHNOLOGY	1	0	0	3	0	3	0	0	0	0	1	0	1	1	1
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14	10	ELECTRONIC JOURNAL OF BIOTECHNOLOGY	0	0	0	0	0	0	0	0	0	0	0	0	2	6	2
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25	4	JOURNAL OF GENERAL VIROLOGY	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0
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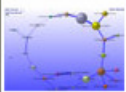
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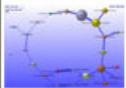
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2	33	JOURNAL OF APPLIED PHYCOLOGY	0	0	1	4	2	5	2	2	3	5	0	6	1	0	2
3	28	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	1	0	0	0	2	1	2	2	5	6	1	0	4	2	2
4	26	WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY	0	0	2	1	2	2	0	5	3	0	3	4	1	0	3
5	23	BIOTECHNOLOGY LETTERS	2	1	1	0	0	0	1	4	1	3	4	2	2	1	1
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11	11	JOURNAL OF BIOTECHNOLOGY	1	0	0	3	0	3	0	0	0	0	1	0	1	1	1
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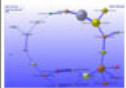
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2	33	JOURNAL OF APPLIED PHYCOLOGY	0	0	1	4	2	5	2	2	3	5	0	6	1	0	2
3	28	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	1	0	0	0	2	1	2	2	5	6	1	0	4	2	2
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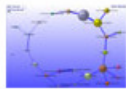
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2	33	JOURNAL OF APPLIED PHYCOLOGY	0	0	1	4	2	5	2	2	3	5	0	6	1	0	2
3	28	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	1	0	0	0	2	1	2	2	5	6	1	0	4	2	2
4	26	WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY	0	0	2	1	2	2	0	5	3	0	3	4	1	0	3
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25	4	JOURNAL OF GENERAL VIROLOGY	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0
26	4	PROTEIN ENGINEERING	0	0	0	0	0	0	0	0	0	2	1	0	0	1	0
27	4	MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
28	4	FOOD CONTROL	0	0	0	0	0	2	0	0	1	0	0	1	0	0	0
29	4	ELECTRONIC JOURNAL OF BIOTECHNOLOGY	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
30	4	BIOTECHNOLOGY TECHNIQUES	0	0	0	1	0	0	0	1	2	0	0	0	0	0	0

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	Total	Major areas output	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	9213	MEDICINE	418	408	426	506	467	576	602	574	614	714	714	736	732	889	837
2	5431	PHYSICS & SPACE SCIENCES	200	215	227	230	264	275	276	325	342	375	392	484	613	603	610
3	4408	MOLECULAR & CELLULAR BIOLOGY & GENETICS	182	152	177	191	178	232	256	318	346	388	367	353	395	433	440
4	3997	PLANT & ANIMAL BIOLOGY, ECOLOGY	186	138	145	149	144	200	236	282	287	361	319	362	347	423	418
5	3713	CHEMISTRY	151	148	176	190	179	209	200	253	231	268	293	310	338	385	382
6	2032	PHYSIOLOGY & PHARMACOLOGY	71	99	76	96	109	127	116	127	155	149	280	146	157	152	172
7	1988	GEOSCIENCES	58	53	63	81	75	89	114	106	114	163	170	184	204	244	270
8	1415	MATHEMATICS	51	49	55	55	65	67	80	76	94	86	115	116	148	179	179
9	1407	AGRICULTURE	41	45	44	58	63	59	89	95	86	123	104	115	161	160	184
10	1331	LIVESTOCK & FISHING	43	45	45	47	60	80	89	102	105	105	105	108	122	142	133
11	1085	MATERIALS SCIENCE AND TECHNOLOGY	39	40	55	57	50	50	79	77	75	82	90	94	92	117	88
12	1067	FOOD SCIENCE AND TECHNOLOGY	38	37	37	46	49	54	64	57	72	80	82	87	114	110	140
13	673	CHEMICAL TECHNOLOGY	13	14	19	22	33	28	39	37	45	68	59	69	60	88	79
14	667	COMPUTER SCIENCE & TECHNOLOGY	21	12	25	17	23	27	30	33	36	38	46	53	82	97	127
15	566	PHILOLOGY & PHILOSOPHY	37	34	33	45	36	34	41	23	31	38	46	34	49	43	42
16	550	CIVIL ENGINEERING & ARCHITECTURE	12	9	25	14	28	28	19	34	48	41	42	56	51	78	65
17	531	SOCIAL SCIENCES	24	33	29	24	33	24	37	34	33	28	52	33	48	54	45
18	326	ELECTRICAL, ELECTRONIC & AUTOMATED ENGINEERING	6	3	7	3	9	18	20	28	20	16	20	29	39	46	62
19	320	ECONOMY	7	14	16	16	13	13	22	21	27	14	44	29	23	36	25
20	262	ELECTRONIC & TELECOMMUNICATIONS TECHNOLOGY	7	3	6	5	6	11	21	19	14	11	15	25	32	36	51
21	258	MECHANICAL, NAVAL & AERONAUTIC ENGINEERING	4	2	10	4	7	10	10	16	26	20	16	23	32	40	38
22	250	PSYCHOLOGY & EDUCATIONAL SCIENCES	13	10	6	7	15	5	7	19	20	17	24	14	21	32	40
23	113	HISTORY & ARTS	4	2	2	5	2	5	1	7	3	4	12	8	21	18	19
24	45	LAVV	4	5	3	5	1	7	3	2	2	4	4	2	1	0	2

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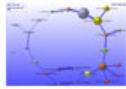
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	Total	Major areas output	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
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2	5431	PHYSICS & SPACE SCIENCES	200	215	227	230	264	275	276	325	342	375	392	484	613	603	
3	4408	MOLECULAR & CELLULAR BIOLOGY & GENETICS	182	152	177	191	178	232	256	318	346	388	367	353	395	433	
4	3997	PLANT & ANIMAL BIOLOGY, ECOLOGY	186	138	145	149	144	200	236	282	287	361	319	362	347	423	
5	3713	CHEMISTRY	151	148	176	190	179	209	200	253	231	268	293	310	338	385	
6	2032	PHYSIOLOGY & PHARMACOLOGY	71	99	76	96	109	127	116	127	155	149	280	146	157	152	
7	1988	GEOSCIENCES	58	53	63	81	75	89	114	106	114	163	170	184	204	244	
8	1415	MATHEMATICS	51	49	55	55	65	67	80	76	94	86	115	116	148	179	
9	1407	AGRICULTURE	41	45	44	58	63	59	69	95	86	123	104	115	161	160	
10	1331	LIVESTOCK & FISHING	43	45	45	47	60	80	89	102	105	105	105	108	122	142	
11	1085	MATERIALS SCIENCE AND TECHNOLOGY	39	40	55	57	50	50	79	77	75	82	90	94	92	117	
12	1067	FOOD SCIENCE AND TECHNOLOGY	38	37	37	46	49	54	64	57	72	80	82	87	114	110	
13	673	CHEMICAL TECHNOLOGY	13	14	19	22	33	28	39	37	45	68	59	69	60	88	
14	667	COMPUTER SCIENCE & TECHNOLOGY	21	12	25	17	23	27	30	33	36	38	46	53	82	97	
15	566	PHILOLOGY & PHILOSOPHY	37	34	33	45	36	34	41	23	31	38	46	34	49	43	
16	550	CIVIL ENGINEERING & ARCHITECTURE	12	9	25	14	28	28	19	34	48	41	42	56	51	78	
17	531	SOCIAL SCIENCES	24	33	29	24	33	24	37	34	33	28	52	33	48	54	
18	326	ELECTRICAL, ELECTRONIC & AUTOMATED ENGINEERING	6	3	7	3	9	18	20	28	20	16	20	29	39	46	
19	320	ECONOMY	7	14	16	16	13	13	22	21	27	14	44	29	23	36	
20	262	ELECTRONIC & TELECOMMUNICATIONS TECHNOLOGY	7	3	6	5	6	11	21	19	14	11	15	25	32	36	
21	258	MECHANICAL, NAVAL & AERONAUTIC ENGINEERING	4	2	10	4	7	10	10	16	26	20	16	23	32	40	
22	250	PSYCHOLOGY & EDUCATIONAL SCIENCES	13	10	6	7	15	5	7	19	20	17	24	14	21	32	
23	113	HISTORY & ARTS	4	2	2	5	2	5	1	7	3	4	12	8	21	18	
24	45	LAW	4	5	3	5	1	7	3	2	2	4	4	2	1	0	

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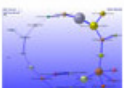
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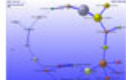
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1	28	AGOSIN, E	<input type="checkbox"/>	2	1	1	2	0	0	2	3	1	0	7	1	1	2	5
2	22	ASENJO, JA	<input type="checkbox"/>	0	0	0	0	0	0	3	2	1	4	3	4	1	2	2
3	20	ILLANES, A	<input type="checkbox"/>	1	0	2	0	2	0	2	0	1	1	1	1	3	3	3
4	19	VICUNA, R	<input type="checkbox"/>	2	1	1	2	0	4	1	1	1	0	1	1	2	1	1
5	18	DURAN, N	<input type="checkbox"/>	2	5	1	1	2	1	0	3	2	1	0	0	0	0	0
6	17	BECKER, MI	<input type="checkbox"/>	0	0	0	0	0	0	0	0	1	0	0	0	14	0	2
7	15	ACEVEDO, F	<input type="checkbox"/>	0	0	1	1	1	0	1	1	1	3	0	0	2	2	2
8	15	BAEZA, J	<input type="checkbox"/>	2	4	0	0	1	0	0	0	1	1	3	3	0	0	0
9	14	FREER, J	<input type="checkbox"/>	2	2	0	0	1	0	0	0	0	1	3	3	0	1	1
10	13	FERRAZ, A	<input type="checkbox"/>	1	2	0	0	0	0	0	2	0	0	3	3	0	1	1
11	13	CHAMY, R	<input type="checkbox"/>	1	0	0	1	1	0	0	1	3	0	1	0	1	2	2
12	12	GENTINA, JC	<input type="checkbox"/>	0	0	0	1	1	0	1	1	2	2	0	0	1	1	2
13	12	GONZALEZ, B	<input type="checkbox"/>	0	0	0	2	0	1	1	1	0	0	2	0	1	2	2
14	11	JEREZ, CA	<input type="checkbox"/>	0	0	0	0	2	0	0	0	2	0	1	1	2	0	3
15	11	Andrews, BA	<input type="checkbox"/>	0	0	0	0	0	0	1	0	1	2	1	2	1	2	1
16	10	CAMPOS, V	<input type="checkbox"/>	1	2	0	1	1	0	1	0	1	1	1	1	0	0	0
17	10	RODRIGUEZ, J	<input type="checkbox"/>	0	1	0	0	0	0	0	2	0	0	3	3	0	1	0
18	9	EYZAGUIRRE, J	<input type="checkbox"/>	0	0	2	0	1	1	1	0	1	0	1	0	1	1	0
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20	9	LEMA, JM	<input type="checkbox"/>	1	0	0	1	0	0	0	1	2	2	1	0	0	1	0

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	Total	Authors	-	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	28	AGOSIN, E	<input type="checkbox"/>	2	1	1	2	0	0	2	3	1	0	7	1	1	2	5
2	22	ASENJO, JA	<input type="checkbox"/>	0	0	0	0	0	0	3	2	1	4	3	4	1	2	2
3	20	ILLANES, A	<input type="checkbox"/>	1	0	2	0	2	0	2	0	1	1	1	1	3	3	3
4	19	VICUNA, R	<input type="checkbox"/>	2	1	1	2	0	4	1	1	1	0	1	1	2	1	1
5	18	DURAN, N	<input type="checkbox"/>	2	5	1	1	2	1	0	3	2	1	0	0	0	0	0
6	17	BECKER, MI	<input type="checkbox"/>	0	0	0	0	0	0	0	0	1	0	0	0	14	0	2
7	15	ACEVEDO, F	<input type="checkbox"/>	0	0	1	1	1	0	1	1	1	3	0	0	2	2	2
8	15	BAEZA, J	<input type="checkbox"/>	2	4	0	0	1	0	0	0	1	1	3	3	0	0	0
9	14	FREER, J	<input type="checkbox"/>	2	2	0	0	1	0	0	0	0	1	3	3	0	1	1
10	13	FERRAZ, A	<input type="checkbox"/>	1	2	0	0	0	0	0	2	0	0	3	3	0	1	1
11	13	CHAMY, R	<input type="checkbox"/>	1	0	0	1	1	0	0	1	3	0	1	0	1	2	2
12	12	GENTINA, JC	<input type="checkbox"/>	0	0	0	1	1	0	1	1	2	2	0	0	1	1	2
13	12	GONZALEZ, B	<input type="checkbox"/>	0	0	0	2	0	1	1	1	0	0	2	0	1	2	2
14	11	JEREZ, CA	<input type="checkbox"/>	0	0	0	0	2	0	0	0	2	0	1	1	2	0	3
15	11	Andrews, BA	<input type="checkbox"/>	0	0	0	0	0	0	1	0	1	2	1	2	1	2	1
16	10	CAMPOS, V	<input type="checkbox"/>	1	2	0	1	1	0	1	0	1	1	1	1	0	0	0
17	10	RODRIGUEZ, J	<input type="checkbox"/>	0	1	0	0	0	0	0	2	0	0	3	3	0	1	0
18	9	EYZAGUIRRE, J	<input type="checkbox"/>	0	0	2	0	1	1	1	0	1	0	1	0	1	1	0
19	9	AGUIRRE, C	<input type="checkbox"/>	1	0	0	1	0	1	0	1	1	1	0	0	2	1	0
20	9	LEMA, JM	<input type="checkbox"/>	1	0	0	1	0	0	0	1	2	2	1	0	0	1	0

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


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	Total	Institution	Pais		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	41535	Universidade de São Paulo	Brasil		1130	1084	1197	1240	1377	1784	2746	4699	2685	3046	3430	3580	4306	4357	4874
2	25438	Univ Barcelona	Spain		948	1012	1148	1298	1351	1590	1765	1879	1908	1990	2000	2057	2123	2165	2204
3	24278	Universidad Nacional Autónoma de México	Mexico		693	929	880	1023	1072	1329	1493	1612	1558	1995	2035	2348	2244	2430	2637
4	22070	Univ Complutense	Spain		901	956	1098	1223	1307	1396	1575	1598	1614	1640	1731	1817	1664	1707	1843
5	17867	Universidad de Buenos Aires	Argentina		602	573	547	607	749	886	1272	2545	1245	1272	1438	1406	1555	1609	1561
6	14747	Universidade Estadual de Campinas	Brasil		315	358	440	505	534	705	692	570	1133	1275	1439	1471	1749	1736	1825
7	14653	Univ Autonoma Barcelona	Spain		583	606	680	724	742	887	955	989	1138	1090	1111	1142	1282	1335	1389
8	14455	Consejo de Investigaciones Científicas y Técnicas	Argentina		318	313	320	391	498	623	1022	1721	929	1074	1212	1355	1473	1539	1667
9	14144	Univ Valencia	Spain		476	525	735	806	744	811	911	957	1099	1085	1126	1181	1168	1243	1277
10	12993	Univ Autonoma Madrid	Spain		506	631	668	699	770	845	902	879	984	980	1051	969	1070	995	1044
11	12963	Universidade Federal do Rio de Janeiro	Brasil		305	373	408	415	515	637	579	501	959	1115	1349	1348	1438	1340	1681
12	11562	Universidad de Chile	Chile		510	537	524	562	579	695	759	1164	946	773	882	790	891	979	971
13	11051	Univ Santiago de Compostela	Spain		344	432	534	597	521	594	685	752	872	845	923	888	999	1096	969
14	10784	Universidade Estadual Paulista "Júlio de Mesquita Filho"	Brasil		156	189	259	234	243	352	850	1294	717	769	944	1010	1245	1317	1205
15	10320	Univ Granada	Spain		349	378	417	575	578	624	643	663	792	819	877	763	855	1032	955
16	9750	Univ Pais Vasco	Spain		348	378	400	473	544	587	671	701	767	770	817	805	791	876	822
17	9684	Hosp Clin & Provincial	Spain		336	365	399	465	486	515	612	632	711	796	717	773	895	959	1023
18	8764	Universidade de Lisboa	Portugal		147	169	211	196	216	316	343	417	2110	1354	572	571	656	670	816
19	8444	Univ Sevilla	Spain		309	353	398	435	413	469	531	551	641	638	581	677	763	796	889
20	8437	Univ Zaragoza	Spain		308	339	454	441	488	575	630	639	643	627	624	685	706	715	563
21	7346	Univ Oviedo	Spain		241	278	291	386	385	370	487	478	549	615	619	582	667	704	694
22	7326	Universidade Técnica de Lisboa	Portugal		172	195	231	256	289	362	415	489	249	480	681	775	835	906	991
23	7282	Universidade Federal do Rio Grande do Sul	Brasil		162	167	192	206	253	308	318	303	496	616	641	757	861	939	1063
24	7177	Universidad Nacional de La Plata	Argentina		292	263	278	271	360	363	400	280	554	600	628	718	744	725	701
25	7076	Univ Politecn Catalunya	Spain		143	189	253	261	277	378	401	470	515	604	575	602	703	819	886
26	7018	Universidade Federal de Minas Gerais	Brasil		129	179	177	218	217	278	271	291	622	667	691	733	831	877	837
27	6891	Universidade do Porto	Portugal		203	199	243	242	305	344	332	389	111	427	658	688	800	879	1071
28	6657	Centro de Investigación y de Estudios Avanzados	Mexico		177	161	182	230	286	339	394	420	398	575	657	630	682	749	777

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3.	<input checked="" type="checkbox"/> Breaks, Michael Breaks, M. Breaks, Michael	<a href="#">4</a> <a href="#">Details</a>	Computer Science; Social Sciences	Heriot-Watt University, Dept. of Mech. and Chem. Engineering, Edinburgh, United Kingdom
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# At mode of reflection...

## Competitive Capacities

**Value chain  
and  
competitive  
advantages**

**Resources  
perspective**

**Essential  
competences  
perspective**

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**This is a great opportunity for  
academic library ... embedding  
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process.**



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Value chain  
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**This is a great opportunity for academic library ... embedding in learning and research process.**

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**Ending the vision of *librarian of books* and assume the vision of *librarian of students, professors, researchers*.**

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