

The SciELO logo features a stylized black swoosh that starts from the top right, curves around a small black dot, and then extends downwards and to the left, ending near the bottom left of the text.

www.SciELO.org

Scientific Electronic Library Online

**foundations, advances, challenges and
perspectives of a 13 years old
network based golden way
to open access scientific knowledge**

Abel L. Packer

Advisor on Information and Communication on Science

Foundation of the Federal University of São Paulo

UNESCO Open Forum, IGF, Vilnius, 16 September 2010

SciELO – Scientific Electronic Library Online

Launched in Brazil, 1997 through a

FAPESP rese

the State of São

and partnere

Latin American a

W. W. GIBBS,

Lost science in the *Third World*,

Scientific American, 273 (1995)

General Objective

To contribute to the development of Latin America and the Caribbean by improving the communication of scientific and technical information

Specific Objective

To publish journals online

To improve the quality of national journals

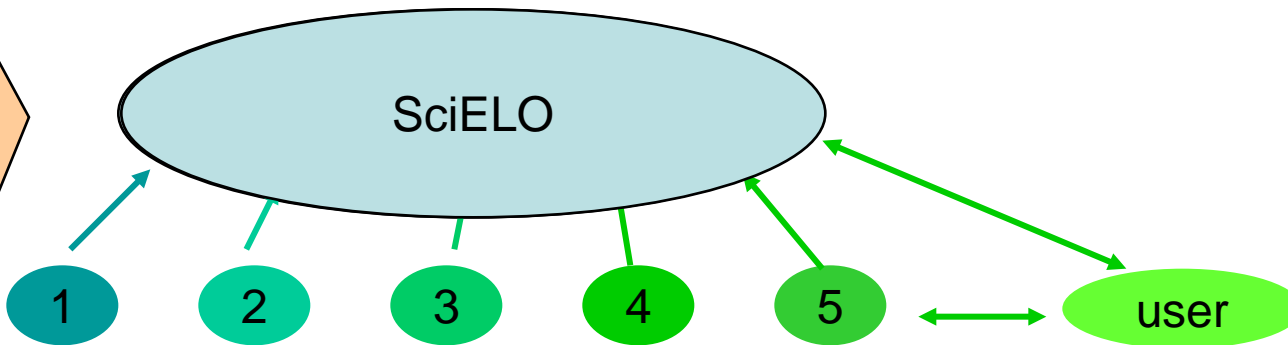
taking the opportunity of moving the publication of journals online – build an index to complement Journal Citation Reports

Online publication in the Web to re-structure the production of the scientific information flow



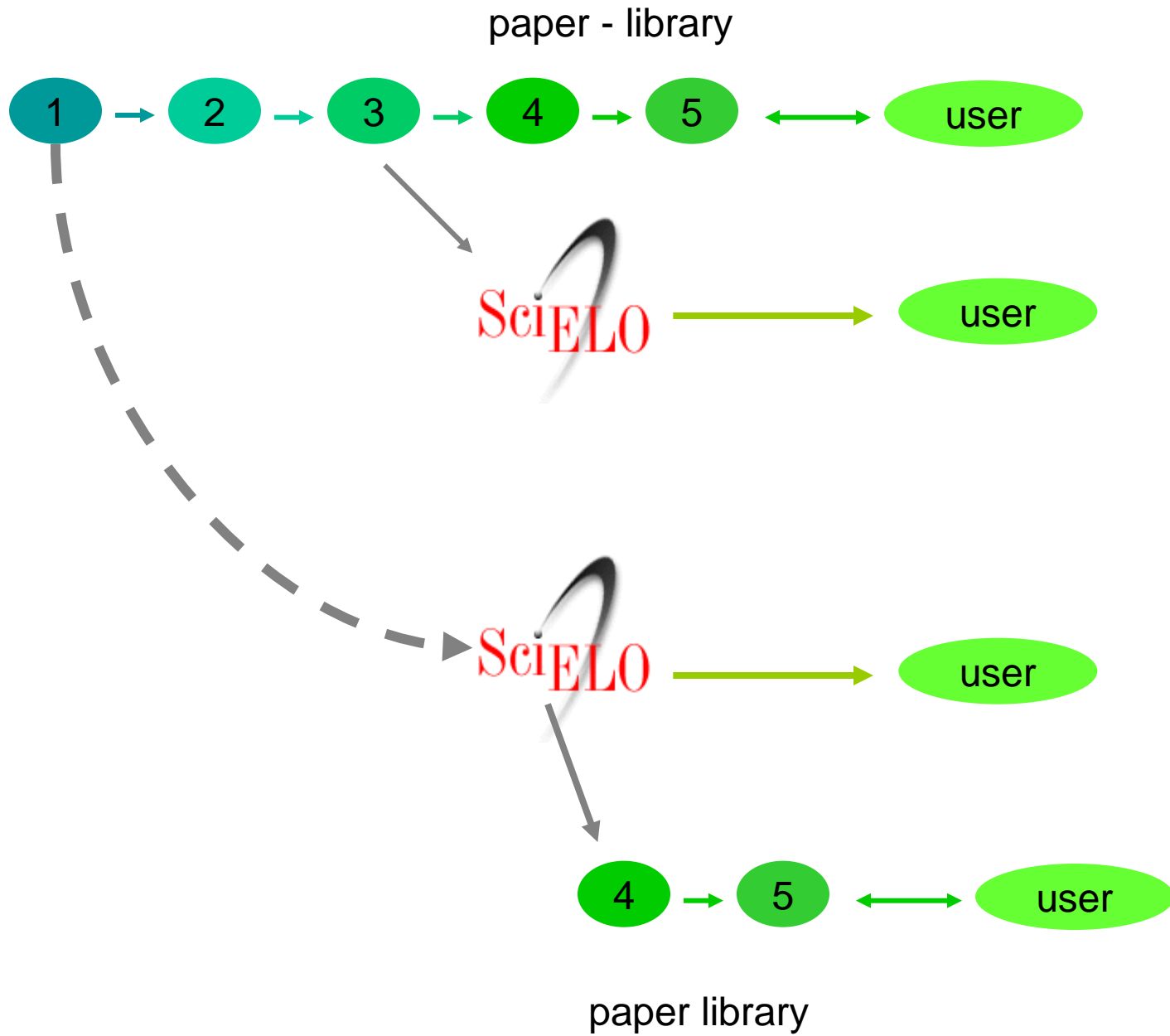
Classic model

fixed instances separated in space and time



Web-Virtual model:

convergence of instances to the same virtual space



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The State of São Paulo Research Foundation
partnered by **BIREME/PAHO/WHO**

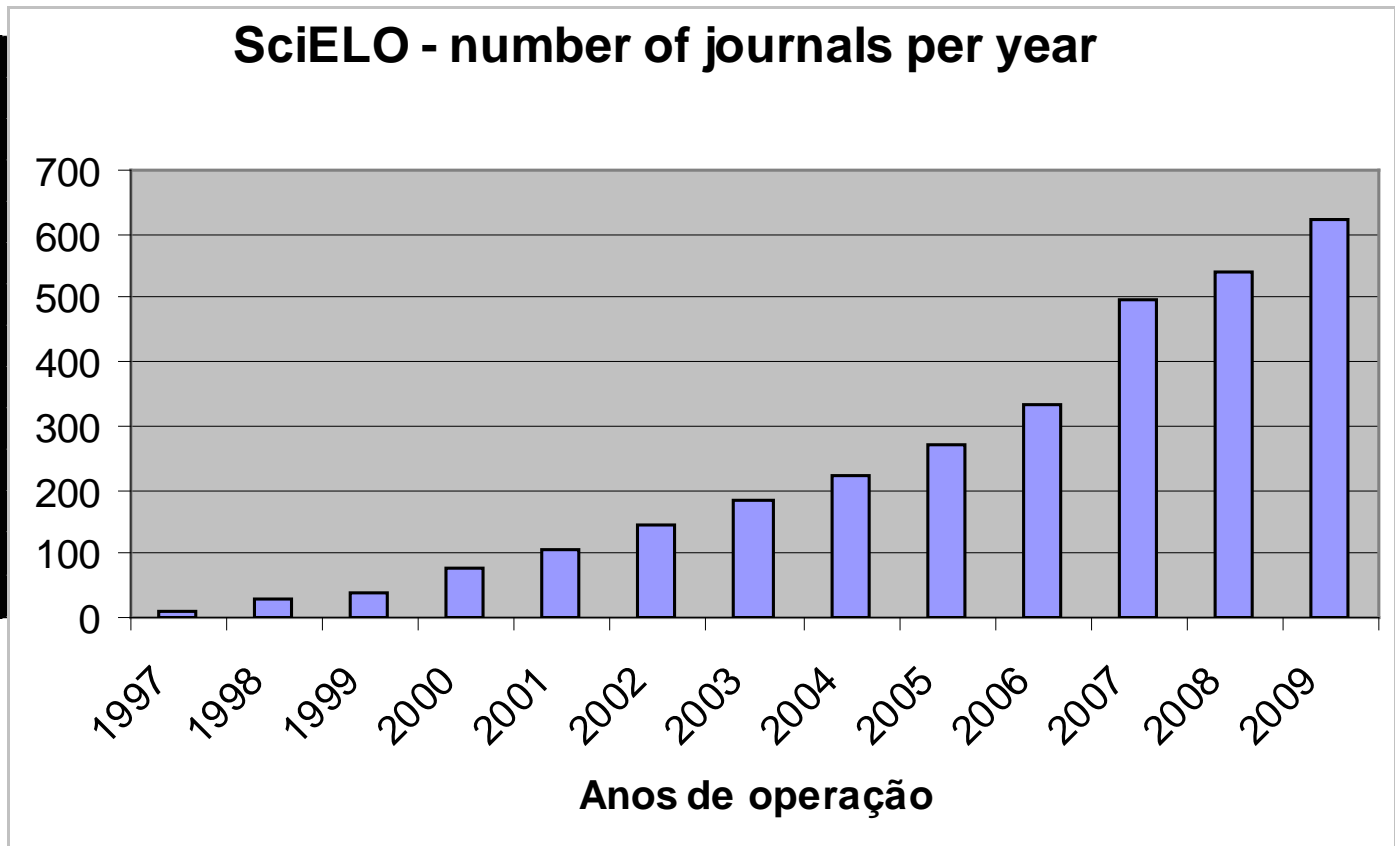
Latin American and Caribbean Center on Health Sciences

supported by **CNPq** (Brazil National Research Council) since 2002
institutional/legal infrastructure provided by FapUNIFESP since 2008
Foundation of Federal University of São Paulo

Early adoption by Chile in 1998 under the leadership of
CONICYT-National Commission for Scientific and Technological Research

SciELO evolved networking national and thematic
collections since 2000

| year | titles |
|------|--------|
| 1997 | 10 |
| 1998 | 28 |
| 1999 | 41 |
| 2000 | 79 |
| 2001 | 105 |
| 2002 | 143 |
| 2003 | 183 |
| 2004 | 221 |
| 2005 | 271 |
| 2006 | 334 |
| 2007 | 496 |
| 2008 | 533 |
| 2009 | 623 |



SciELO Network – titles from 1997 to 2009

Evolution of the network by national collection and number of titles

| Certified Collections | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|------------------------|-----------|------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|
| Brazil | 10 | 25 | 35 | 54 | 66 | 92 | 114 | 134 | 144 | 158 | 203 | 209 |
| Chile | | 3 | 6 | 20 | 26 | 32 | 39 | 46 | 50 | 56 | 69 | 70 |
| Cuba | | | | | 5 | 5 | 11 | 15 | 18 | 19 | 22 | 23 |
| Argentina | | | | | | | | 4 | 4 | 18 | 33 | 43 |
| Colombia | | | | | | | | 4 | 7 | 9 | 46 | 54 |
| Portugal | | | | | | | | 5 | 5 | 9 | 17 | 20 |
| Spain | | | | | 3 | 7 | 12 | 18 | 24 | 27 | 34 | 36 |
| Social Sciences | | | | | | | | | 5 | 12 | 29 | 29 |
| Venezuela | | | | | | | | | 6 | 18 | 35 | 38 |
| Public Health | | | | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 11 |
| Total | 10 | 28 | 41 | 79 | 105 | 143 | 183 | 221 | 271 | 334 | 496 | 533 |
| % of growth | 0 | 180 | 46.4 | 92.7 | 32.9 | 36.2 | 28 | 20.8 | 22.6 | 23.2 | 48.5 | 7.46 |

SciELO Network, 2008

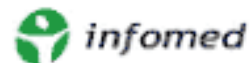
SciELO Network collections, August 2010

| Certified | | | in development | | |
|-----------------|-------|------------|----------------|-------|------------|
| Collections | Start | Titles | Collections | Start | Titles |
| Argentina | 2004 | 62 | Bolivia | 2009 | 8 |
| Brazil | 1997 | 212 | Costa Rica | 2000 | 9 |
| Chile | 1998 | 86 | Mexico | 2003 | 55 |
| Colombia | 2004 | 84 | Paraguay | 2007 | 3 |
| Cuba | 2001 | 32 | Peru | 2004 | 12 |
| Portugal | 2004 | 26 | South Africa | 2009 | 10 |
| Venezuela | 2000 | 49 | Uruguay | 2005 | 8 |
| Spain | 2001 | 44 | West Indian | 2006 | 1 |
| Public Health | 2000 | 12 | Total | | 106 |
| Social Sciences | 2006 | 33 | | | |
| Total | | 640 | | | |

SciELO Brazil collection operates as the laboratory for testing, innovation and maintenance of the methodology and technology

Open access – interoperable

- OAI protocol
- Web Services protocols
- RSS



GPEARI

Gabinete de Planeamento, Estratégia, Avaliação e Relações Internacionais
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR



BINASSS: Biblioteca Nacional de Salud y Seguridad Social



BINAME / CENDIM
Biblioteca Nacional de Medicina
Centro Nacional de Documentación e Información en Medicina
Facultad de Medicina - Montevideo Uruguay

geographic

Latin America, Caribbean
Portugal & Spain
South Africa

languages

English
Portuguese
Spanish



SciELO: why?, how?, ... towards

To improve quality of journals through online OA publishing

visibility

accessibility

quality

credibility

use

impact

Strategy:

publish online collections of selected journals in open access mode with integrated measure of use and impact

quality criteria to select/index journals complementing international indexes

links from articles with national and international information sources

move journals from the status of local and regional towards the international flow of scientific information

**SciELO as a meta publisher
public good**

.....

2005 – NIH Public Access Policy

2003 – Directory of Open Access Journal

2002 – HINARI

2001 – PLOS – Letter, Journal site in 2002

2000 – PubMed Central
BioMed Central

1999 – OAI

1998 – Virtual Health Library

**1997 - SciELO Brazil, Chile
PubMed - MEDLINE
with open access**

1993 – Bioline International

1991 – arXiv

OA - time line

2005 sep
Salvador Declaration on Open
Access: the developing world
perspective

2003 oct
Berlin Declaration on Open
Access to Knowledge in the
Sciences and Humanities

2003 jun
Bethesda Statement on Open
Access Publishing

2002 feb
Budapest Open Access Initiative



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-  Venezuela
-  Public Health
-  Social Sciences

in development

-  Bolivia

Search article

method Entry one or more words where

integrated Regional

Indexes (Regional): country, author, keyword, title, organization, publication year, document type, original language

Browse journals

Search by journals

Entry one or more words

By alphabetic list - all

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By subject - all

- Agricultural Sciences
- Applied Social Sciences
- Biological Sciences
- Chemistry
- Engineering
- Exact and Earth Sciences

SciELO in numbers

- Site usage
- Citations
- Co-authors

653 Journals

17,922 Issues

268,707 Articles

5,460,057 Citations

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São Paulo, 10 de setembro 2010

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- Transference process of BIREME Director reviews advances, innovations and challenges
- JCR 2009 shows increase presence and performance of Latin America and the Caribbean
- Committee prepares to launch clinical trials registry platform in Brazil
- VHL Management: a regional event was carried out to train coordinators

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-  [West Indian Medical Journal](#)

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 national and
 thematic collections
 adopts the same
 methodology and
 technical process

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84 Issues

By subject

registry platform in Brazil

VHL Management: a regional event was carried out to train coordinators

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- Portugal
- Venezuela
- Public Health
- Social Sciences
- Co-authors

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to indexes of
bibliographic
elements (author,
country, etc.)

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thematic
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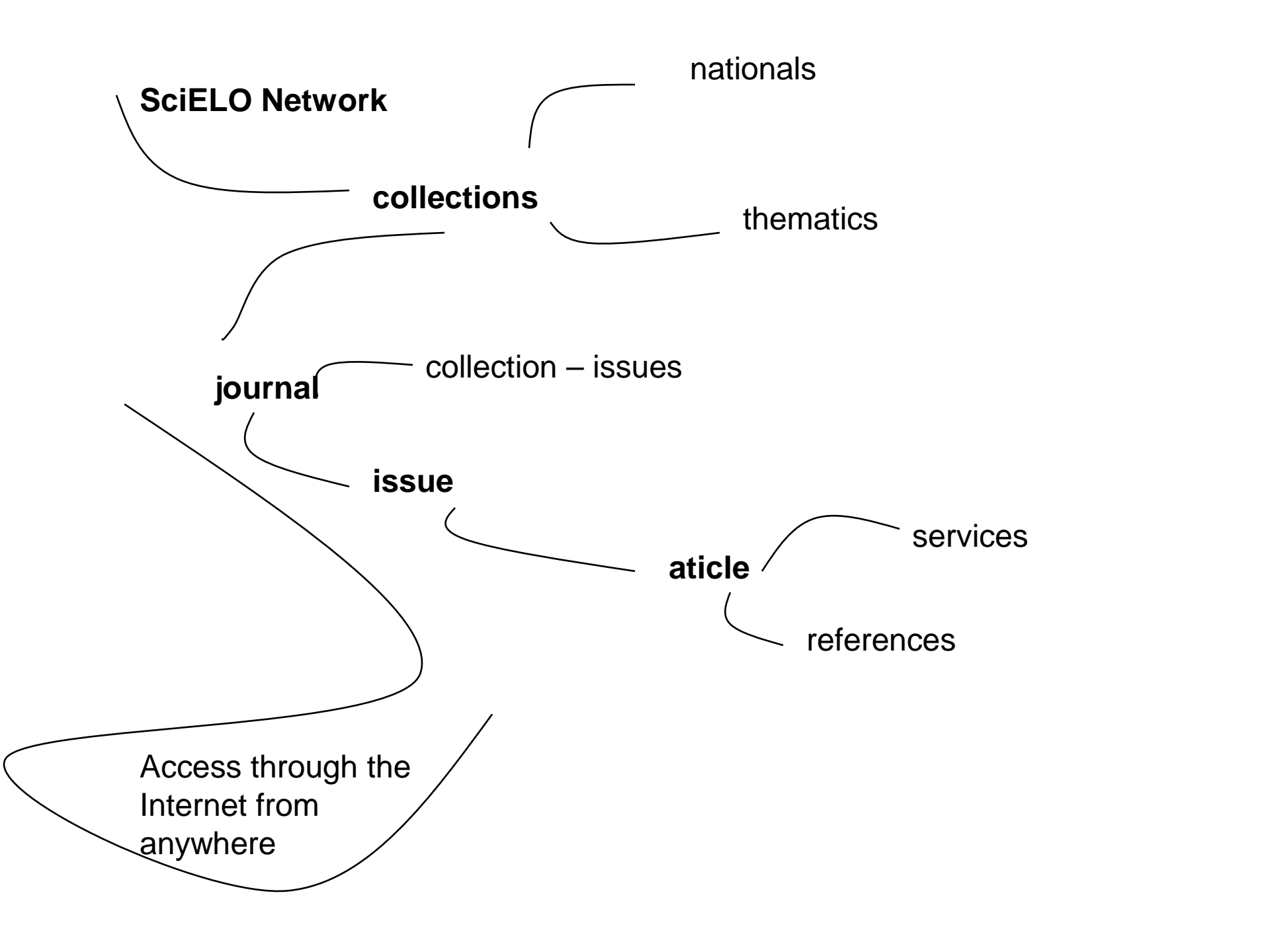
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Current titles - 212 serials listed

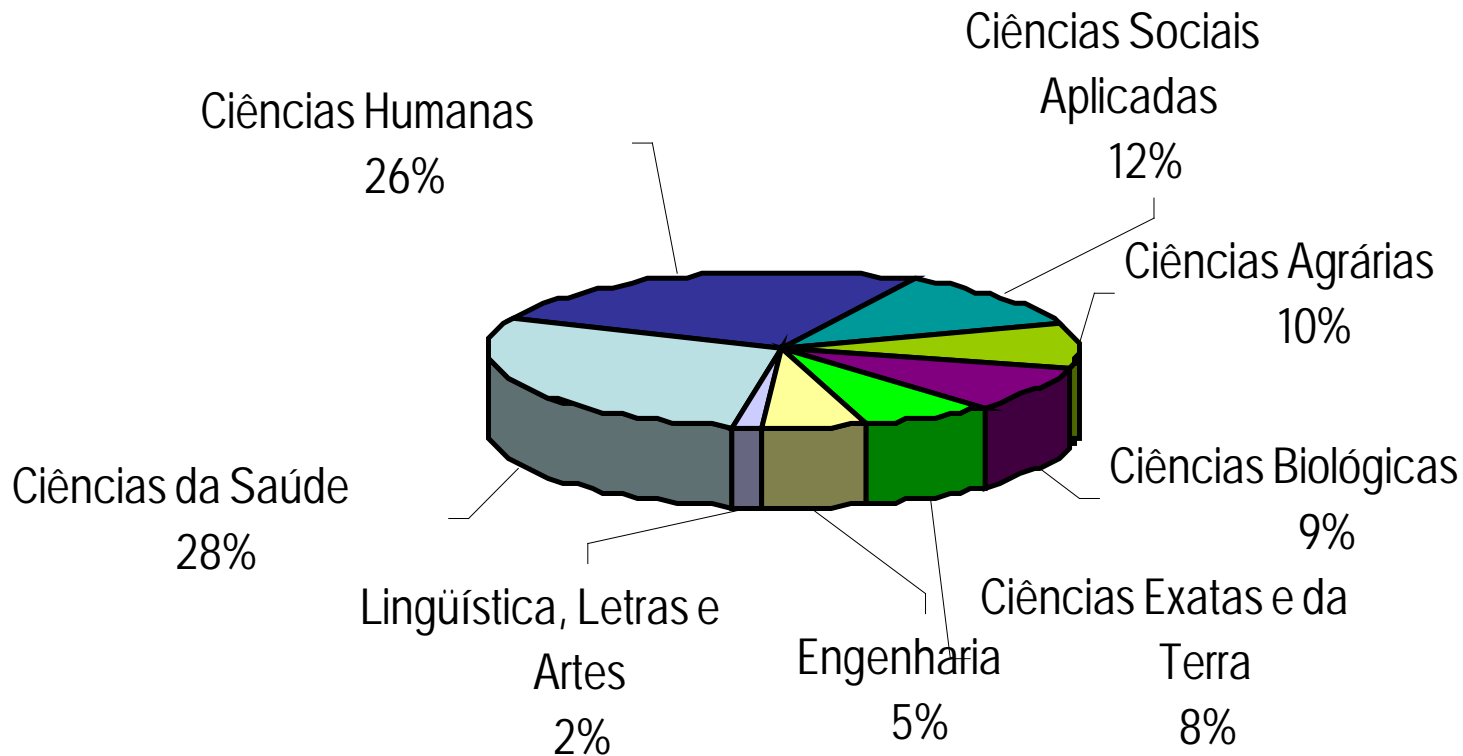
- [ABCD. Arquivos Brasileiros de Cirurgia Digestiva \(São Paulo\)](#) - 5 issues
- [Acta Amazonica](#) - 26 issues
- [Acta Botanica Brasilica](#) - 38 issues
- [Acta Cirurgica Brasileira](#) - 92 issues
- [Acta Ortopédica Brasileira](#) - 49 issues
- [Acta Paulista de Enfermagem](#) - 29 issues

- [Ágora: Estudos em Teoria Psicanalítica](#) - 20 issues

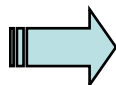
- [Alea : Estudos Neolatinos](#) - 14 issues
- [Ambiente & sociedade](#) - 20 issues
- [Anais Brasileiros de Dermatologia](#) - 50 issues
- [Anais da Academia Brasileira de Ciências](#) - 43 issues
- [Anais do Museu Paulista: História e Cultura Material](#) - 20 issues
- [Arquivo Brasileiro de Medicina Veterinária e Zootecnia](#) - 70 issues
- [Arquivos Brasileiros de Cardiologia](#) - 199 issues
- [Arquivos Brasileiros de Endocrinologia & Metabologia](#) - 80 issues
- [Arquivos Brasileiros de Oftalmologia](#) - 65 issues
- [Arquivos de Gastroenterologia](#) - 43 issues
- [Arquivos de Neuro-Psiquiatria](#) - 77 issues
- [ARS \(São Paulo\)](#) - 2 issues
- [Avaliação: Revista da Avaliação da Educação Superior \(Campinas\)](#) - 11 issues

- [BAR. Brazilian Administration Review](#) - 19 issues
- [Biota Neotropica](#) - 19 issues
- [Boletim do Museu Paraense Emílio Goeldi. Ciências Humanas](#) - 7 issues
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SciELO Brazil - journals by thematic area



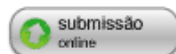
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 - [Brazilian Journal of Infectious Diseases](#) - 58 issues
 - [Brazilian Journal of Medical and Biological Research](#) - 166 issues
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 - [Brazilian Journal of Oceanography](#) - 38 issues
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| 2004 | 34 | 1 | 2 | 3 | 4 | 5 | 6 | | | |
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Scrotum histological description in native goats from Piauí State, according to scrotal bipartition level

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Antibacterial activity of essential basil oil against serogroups of enteropathogenic *Escherichia coli* isolated from lettuce

Martins, André Gustavo Lima de Almeida; Nascimento, Adenilde Ribeiro; Mouchrek Filho, João Elias; Mendes Filho, Nestor Everton; Souza, Antonio Gouveia; Aragão, Natanael Eudes; Silva, Diôgo Sérgio Vieira da

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Comparing plastic syringes and disposable columns to extract n-alkanes in forage and concentrate feeds

Oliveira, Dimas Estrelas de; Tedeschi, Luiz Orlando

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CEA FURLANI... - Cienc. Rural - SciELO Brasil

The performance of agricultural tractors under field conditions results from the interaction between tire and wheel affected by displacement speed. This work was developed to assess the performance of an agricultural tractor under different seeder's tire inflation pressure (518; 483 and ...

Cached

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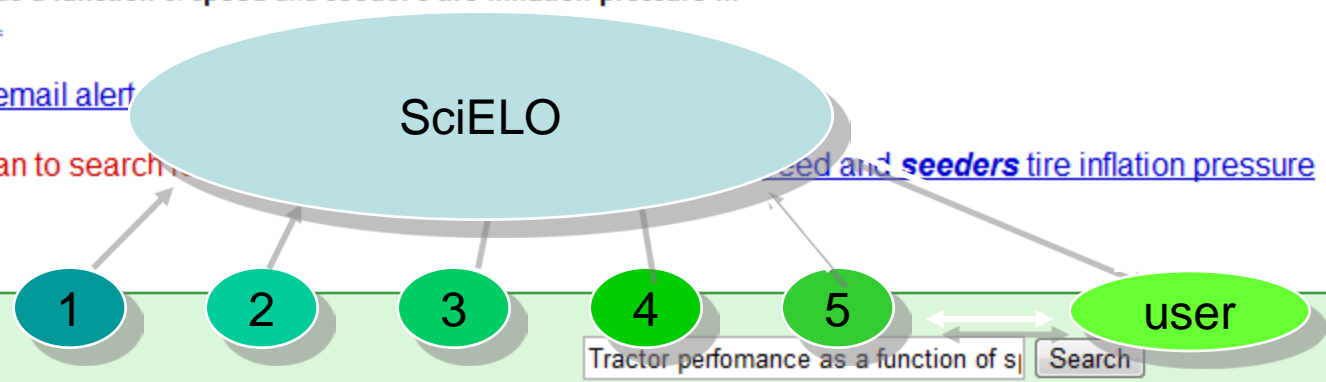
CEA Furlanil, JWCIA de Toledoll, RPSID Cesar, ... - Ciência Rural, 2010 - SciELO Brasil

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Carlos Eduardo Angeli Furlani

Bolsista de Produtividade em Pesquisa do CNPq - Nível 1D

possui graduação em Engenharia Agrônoma pela Universidade de São Paulo (ESALQ/1994), mestrado em Agronomia (Energia na Agricultura) pela Universidade Estadual Paulista Júlio de Mesquita Filho (1997) e doutorado em Agronomia (Energia na Agricultura) pela Universidade Estadual Paulista Júlio de Mesquita Filho (2000), fez concurso para professor livre-docente em 2005. Atualmente é professor adjunto da Universidade Estadual Paulista Júlio de Mesquita Filho (Departamento de Engenharia Rural), Editor Chefe da revista Engenharia Agrícola, Coordenador do Curso de Pós-Graduação em Agronomia (Ciência do Solo) e membro da Diretoria Executiva da Associação Brasileira de Engenharia Agrícola. Tem experiência na área de Agronomia e Engenharia Agrícola, com ênfase em Máquinas Agrícolas, atuando principalmente nos seguintes temas: semeadora, plantio direto, preparo, máquinas e desempenho.

(Texto informado pelo autor)

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Dados pessoais

| | |
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| Nome em citações bibliográficas | FURLANI, Carlos Eduardo Angeli;Furlani, Carlos E. A. |
| Sexo | Masculino |
| Endereço profissional | Universidade Estadual Paulista Júlio de Mesquita Filho, Faculdade de Ciências Agrárias e Veterinárias de Jaboticabal, Departamento de Engenharia Rural. Rodovia de acesso Prof. Paulo Donato Castellane Rural 14884-900 - Jaboticabal, SP - Brasil Telefone: (16) 32092637 Ramal: 217 Fax: (16) 32033341 URL da Homepage: http://www.fcav.unesp.br/departamentos/enengenharia/dadosdocente.php?docenteid=Carlos%20Eduardo%20Angeli%20Furlani |

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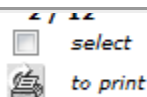
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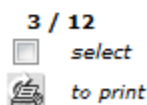
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Chagas, Carlos. **Estudos de citologia em nova especie de coccidio, "*Adelea hartmanni*", do intestino do *Dysdercus ruficollis* L..** *Mem. Inst. Oswaldo Cruz*, 1910, vol.2, no.2, p.168-185. ISSN 0074-0276

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Nova tripanozomiaze humana.

Estudos sobre a morfologia e o ciclo evolutivo do *Schizotrypanum cruzi* n. gen., n. sp.
agente etiologico de nova entidade morbida do homem

pelo

Dr. Carlos Chagas,

Assistente.

(Estampas 9 a 13 e 10 figuras no texto)

Ueber eine neue Trypanosomiasis des Menschen.

Ueber Morphologie und Entwicklungszyklus des *Schizotrypanum cruzi* n. gen., n. sp.
Erreger einer neuen Krankheit des Menschen

von

Dr. Carlos Chagas,

Assistenten.

(Mit Tafeln 9—13 und 10 Textfiguren)

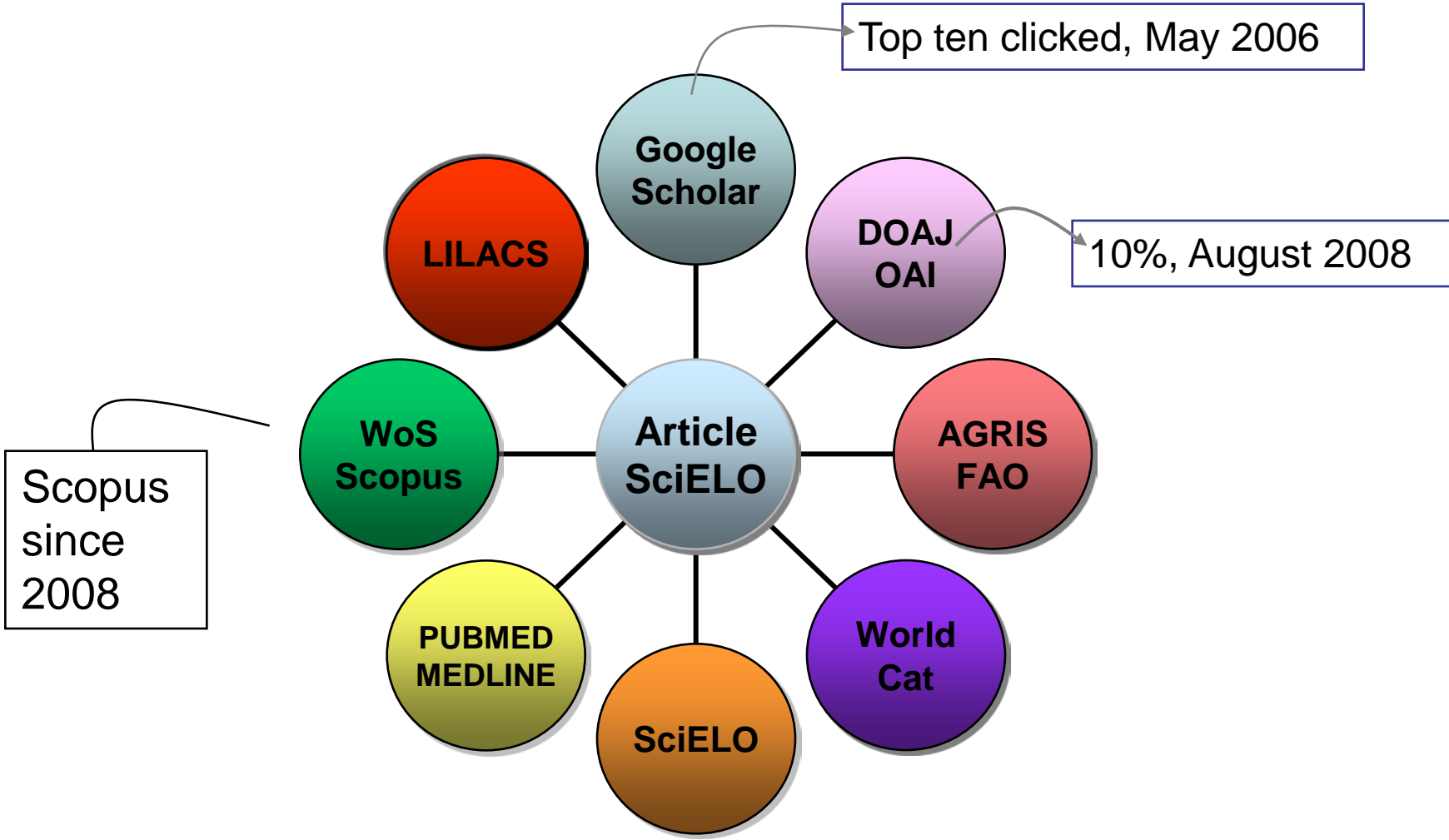
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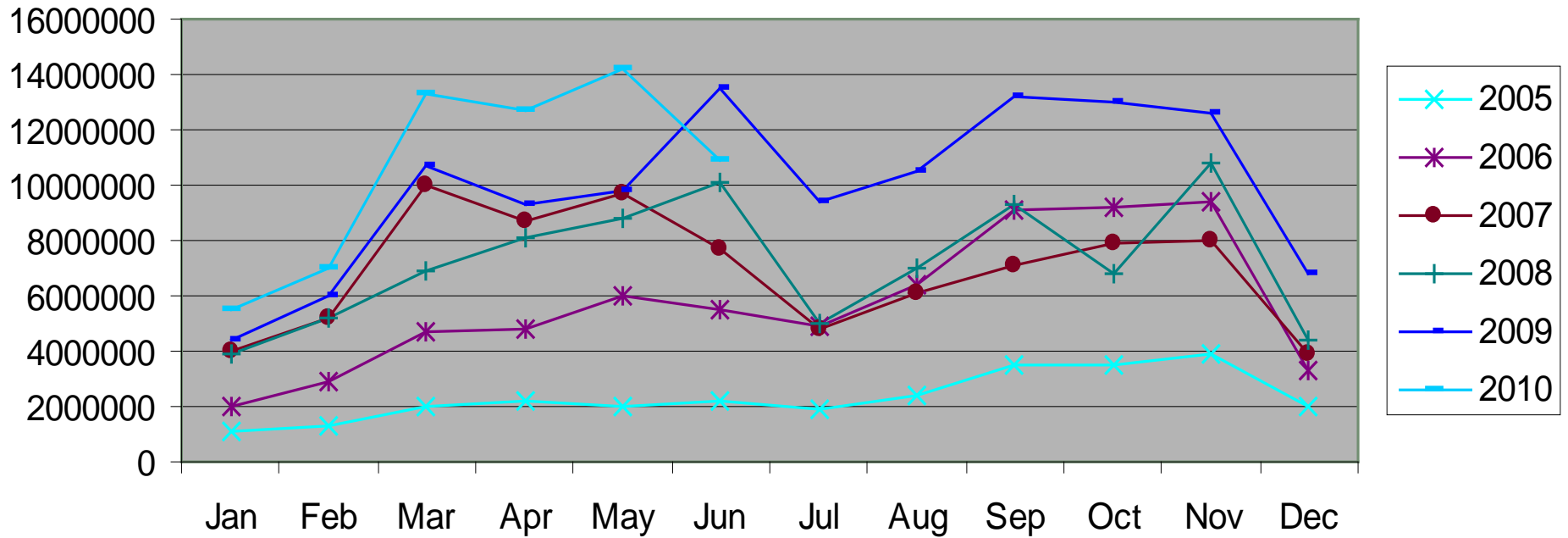
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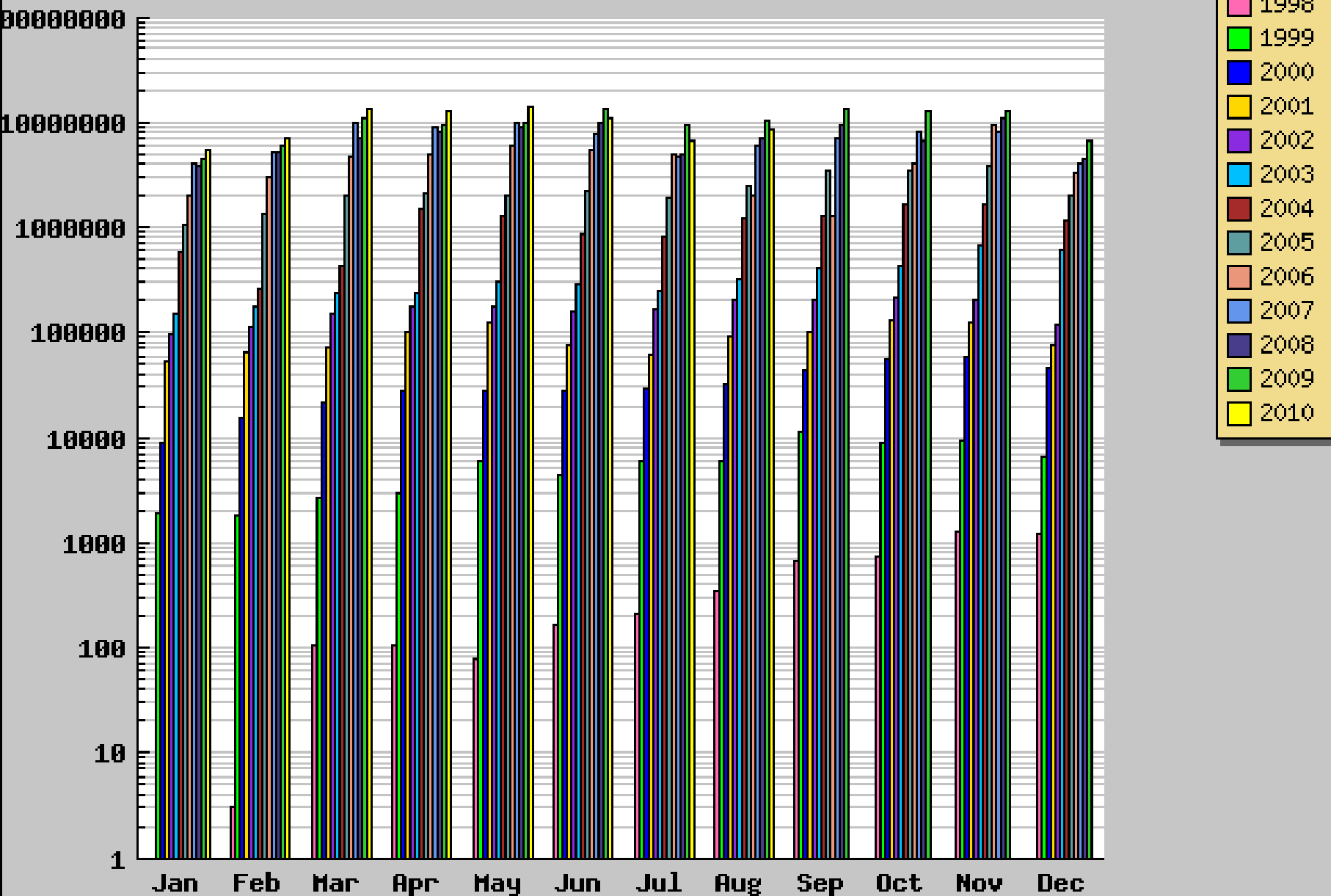


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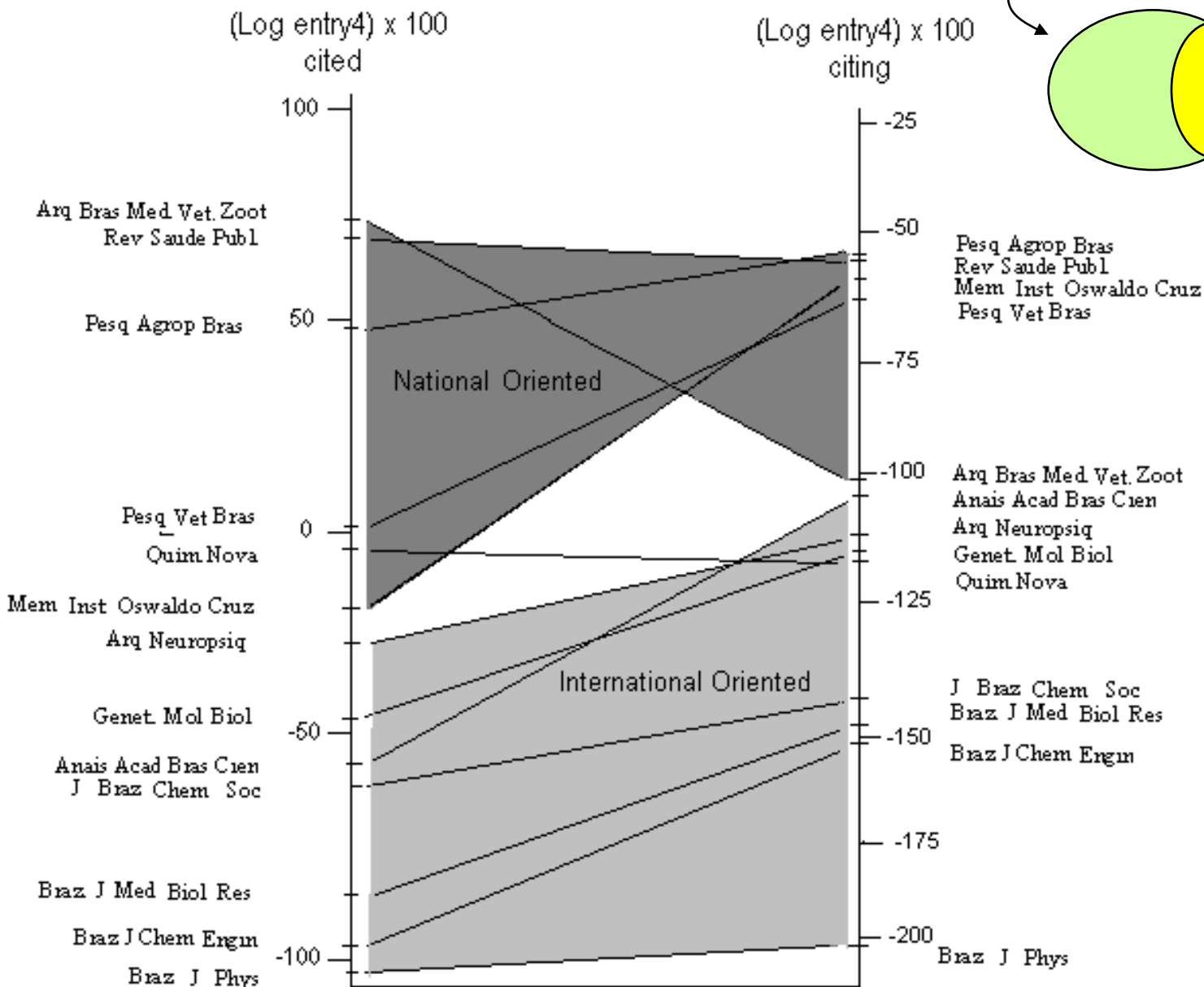
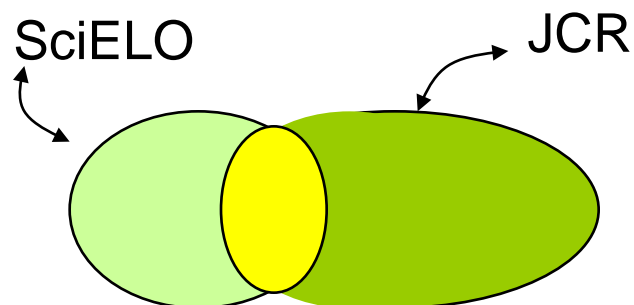
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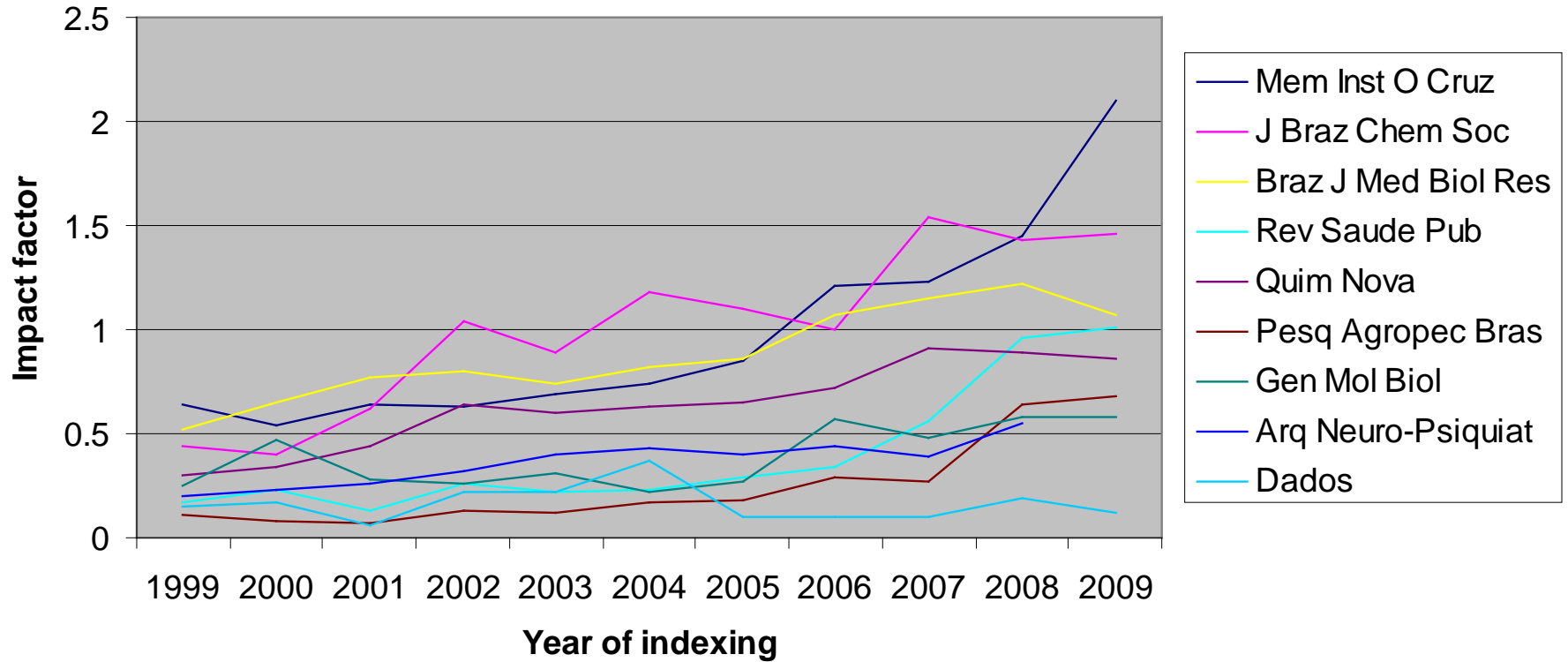
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| Argentina | 4 | 55 | 59 | 6,78 | 93,22 |
| Colombia | 1 | 50 | 51 | 1,96 | 98,04 |
| Venezuela | 10 | 27 | 37 | 27,03 | 72,97 |
| Spain | 2 | 32 | 34 | 5,88 | 94,12 |
| Cuba | 6 | 19 | 25 | 24,00 | 76,00 |
| Portugal | 1 | 22 | 23 | 4,35 | 95,65 |
| Mexico | | 15 | 15 | 0,00 | 100,00 |
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| Public Health | 1 | 1 | 2 | 50,00 | 50,00 |
| Spain_Public | 1 | 1 | 2 | 50,00 | 50,00 |
| Chile_Social Sciences | | 1 | 1 | 0,00 | 100,00 |
| Colombia_Public | 1 | | 1 | 100,00 | 0,00 |
| Cuba_Public Health | | 1 | 1 | 0,00 | 100,00 |
| Mexico_Public | 1 | | 1 | 100,00 | 0,00 |
| Venezuela_Social Scien | | 1 | 1 | 0,00 | 100,00 |
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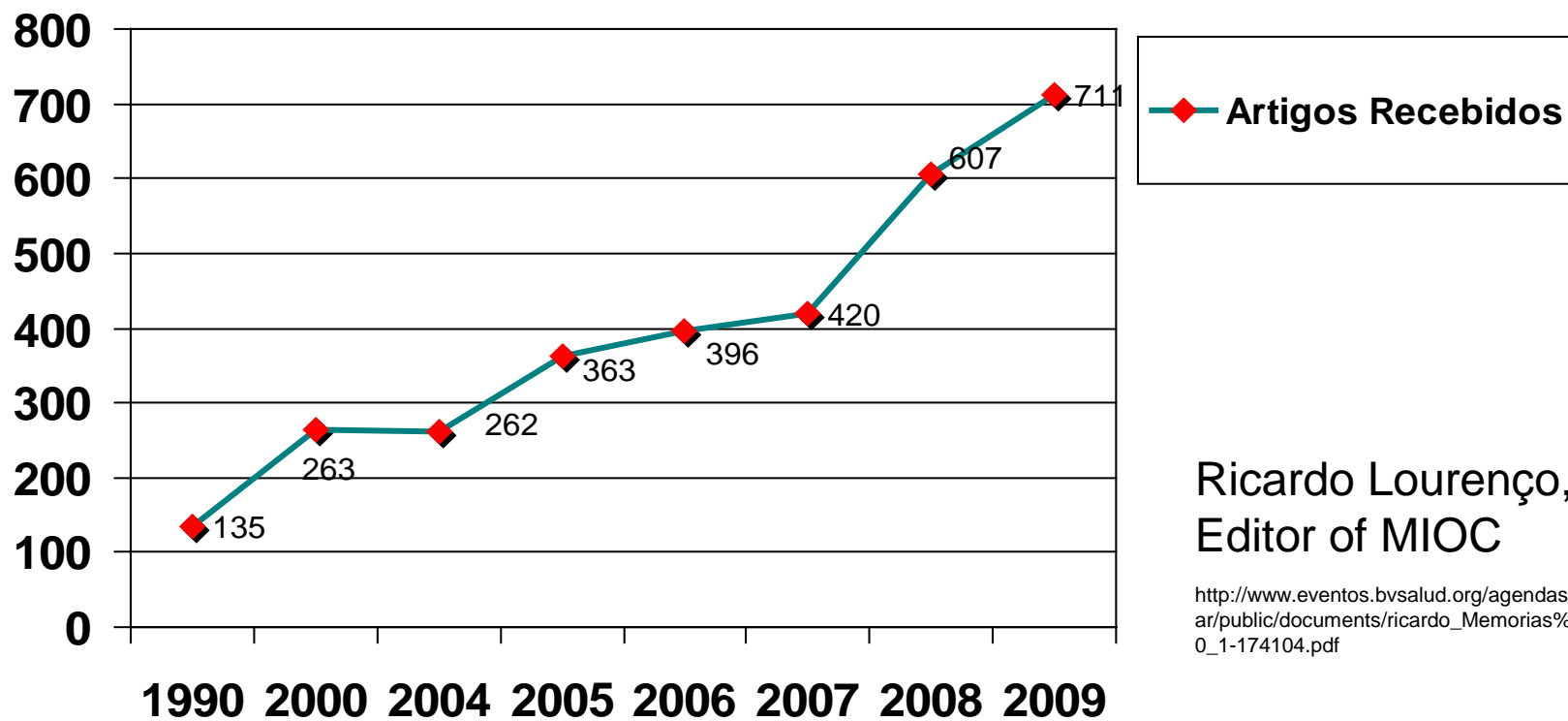
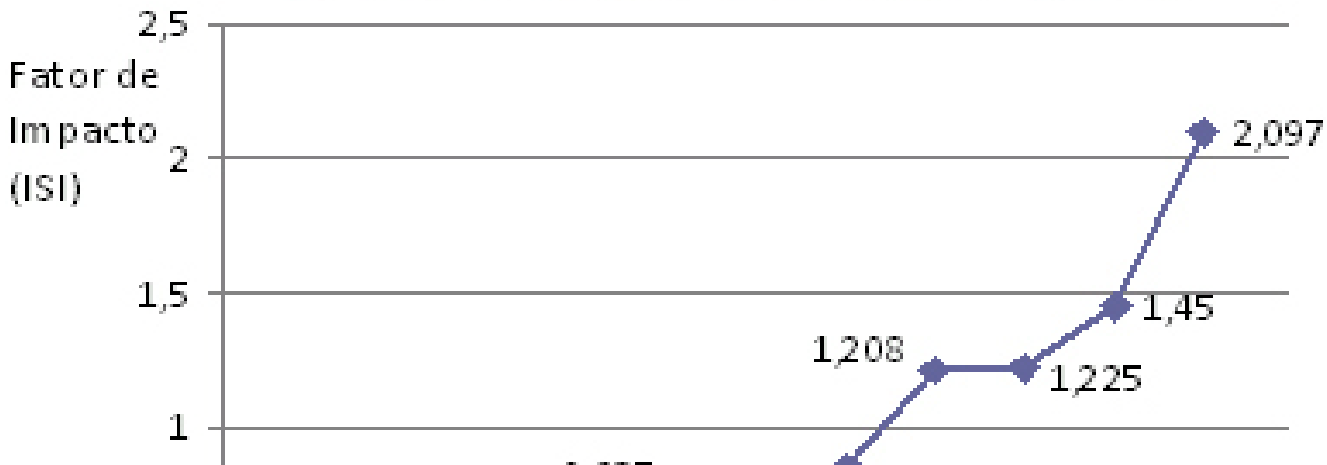
JCR 2009 – Brazilian journals with IF > 1

| Periódico | FI no JCR > 1 em 2009 | | | | | 2009 sem auto-citac |
|---------------------|-----------------------|-------|-------|-------|-------|---------------------|
| | 2005 | 2006 | 2007 | 2008 | 2009 | |
| REV BRAS FARMACOGN | 0.000 | 0.000 | 0.000 | 0.000 | 3.462 | 0.327 |
| MEM I OSWALDO CRUZ | 0.847 | 1.208 | 1.225 | 1.450 | 2.097 | 1.643 |
| CLINICS | 0.000 | 0.000 | 0.000 | 0.000 | 1.591 | 1.227 |
| J BRAZIL CHEM SOC | 1.097 | 1.003 | 1.539 | 1.430 | 1.458 | 1.105 |
| REV BRAS PSIQUIATR | 0.000 | 0.000 | 1.318 | 1.318 | 1.391 | 0.992 |
| J PEDIAT-BRAZIL | 0.000 | 0.000 | 0.000 | 0.000 | 1.382 | 1.059 |
| ARQ BRAS CARDIOL | 0.000 | 0.000 | 0.000 | 0.000 | 1.316 | 0.914 |
| PLANTA DANINHA | 0.000 | 0.000 | 0.000 | 0.000 | 1.204 | 0.239 |
| BRAZ J MED BIOL RES | 0.859 | 1.075 | 1.150 | 1.215 | 1.075 | 1.049 |
| AN ACAD BRAS CIENC | 0.653 | 0.737 | 0.895 | 0.881 | 1.074 | 1.000 |
| REV SAUDE PUBL | 0.287 | 0.343 | 0.557 | 0.963 | 1.006 | 0.838 |

JCR 2009 – periódicos brasileiros com FI > 1

| Periódico | Periódico | JCR 2009 | SciELO 2009 | % | No SciELO 2009 | % JCR |
|--------------|---------------------|----------|-------------|-----|----------------|-------|
| REV BRAS FA | | | | | 2 | 81% |
| MEM I OSWA | REV SAUDE PUBL | 1.006 | 0.945 | 94% | 2 | 35% |
| CLINICS | PLANTA DANINHA | 1.204 | 1.064 | 88% | 7 | 56% |
| J BRAZIL CHE | REV BRAS FARMACOGN | 3.462 | 2.792 | 81% | 1 | 25% |
| REV BRAS PS | J PEDIAT-BRAZIL | 1.382 | 0.871 | 63% | 0 | 56% |
| J PEDIAT-BR | ARQ BRAS CARDIOL | 1.316 | 0.829 | 63% | 1 | 63% |
| ARQ BRAS C | REV BRAS PSQUIATR | 1.391 | 0.780 | 56% | 9 | 63% |
| PLANTA DAN | CLINICS | 1.591 | 0.887 | 56% | 4 | 88% |
| BRAZ J MED | MEM I OSWALDO CRUZ | 2.097 | 0.742 | 35% | 1 | 19% |
| AN ACAD BR | J BRAZIL CHEM SOC | 1.458 | 0.371 | 25% | 8 | 14% |
| REV SAUDE | BRAZ J MED BIOL RES | 1.075 | 0.201 | 19% | 5 | 94% |
| | AN ACAD BRAS CIENC | 1.074 | 0.148 | 14% | | |

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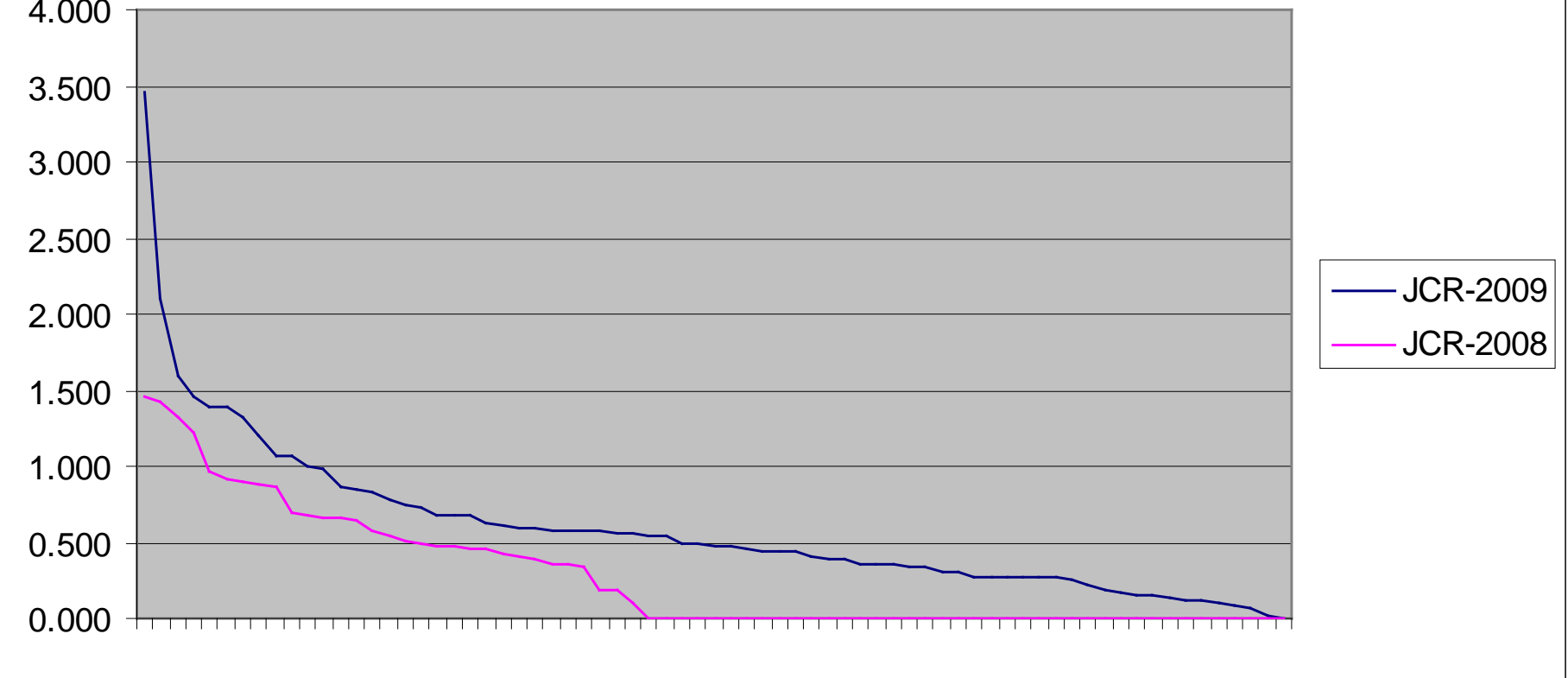
Ricardo Lourenço, 2010
Editor of MIOC

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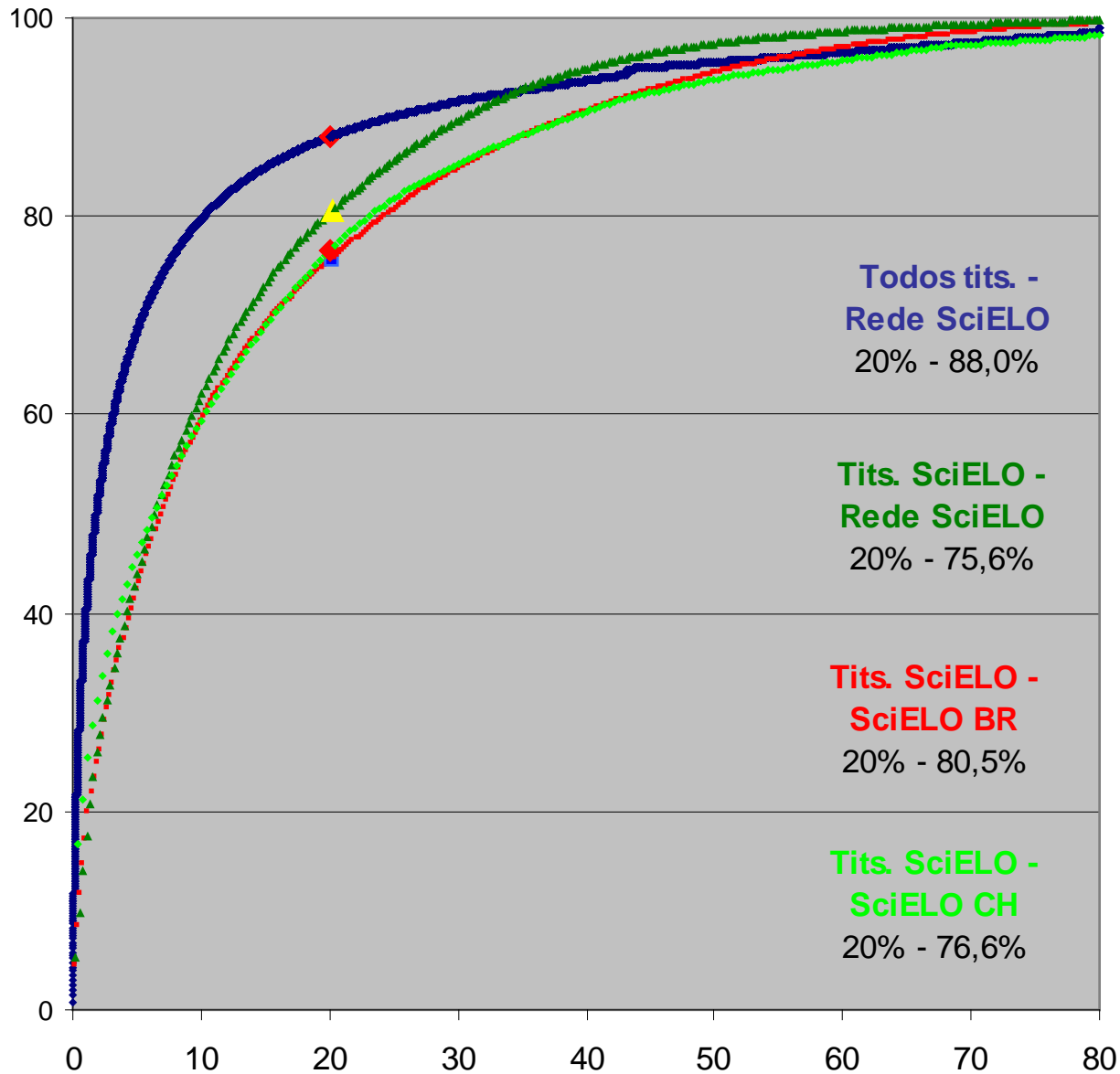
IF distribution per 25th percentil

| | Q1 | Q2 | Q3 | Q4 |
|---------------|------|-----|-----|-----|
| 2009 - titles | 1 | 9 | 32 | 115 |
| - % | 1% | 10% | 30% | 58% |
| - % ac | 100% | 98% | 88% | 58% |

JCR2009, LA&C journals – distribution of IF per thematic areas



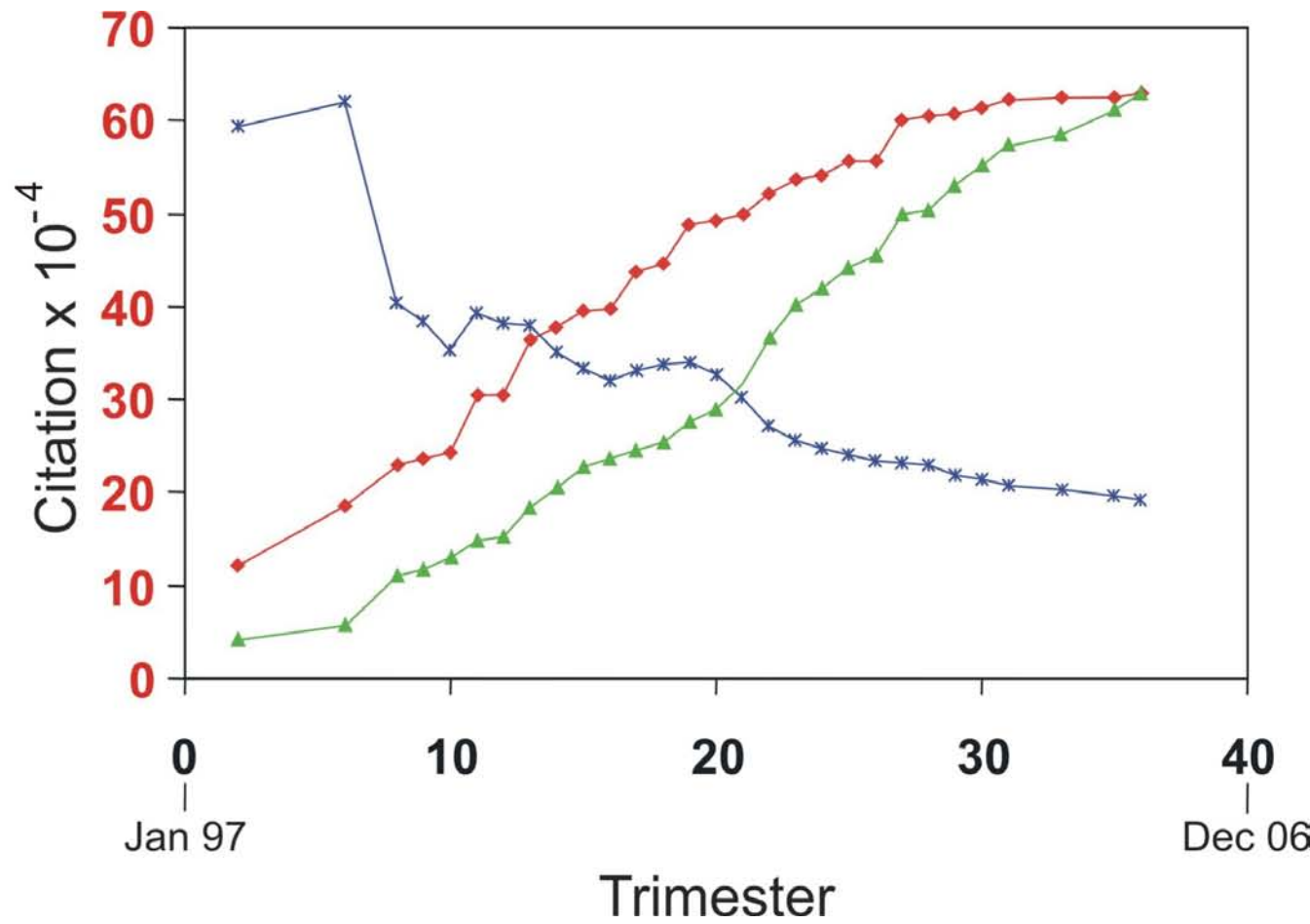
distribution of percentage of citations by journals - 2007



SciELO
collection
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Citations / journal

Number of journals



SciELO Brazil – collection development, 2006

Rogério Meneghini, Abel L. Packer, 2006



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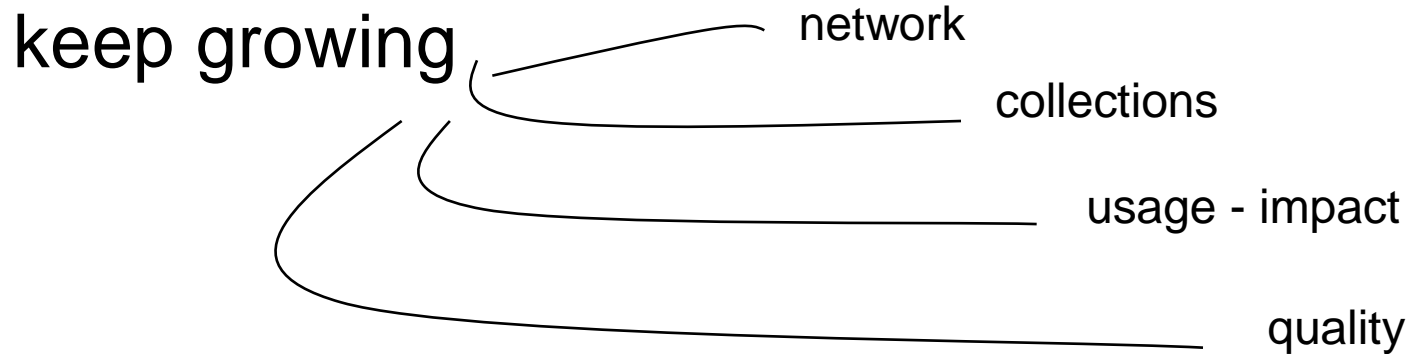
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insertion in the global flow of scientific information

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Bibliographic references

Packer, Abel L. The SciELO Open Access: A Gold Way from the South. *Canadian Journal of Higher Education* (1975), v. 39, p. 111-126, 2009.

Packer, Abel L ; Meneghini, R. Learning to communicate science in developing countries. *Interciencia* (Caracas), v. 32, p. 643-647, 2007.

Meneghini, R. ; Packer, AL . Is there science beyond English? Initiatives to increase the quality and visibility of non-English publications might help to break down language barriers in scientific communication. *EMBO Reports*, v. 8, p. 112-116, 2007.

Meneghini, R. ; Mugnaini, R. ; Packer, AL . International versus national oriented Brazilian scientific journals. A scientometric analysis based on SciELO and JCR-ISI databases. *Scientometrics*, v. 69, p. 529-538, 2006.

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