

Open access in Latin America and the Caribbean (LAC)

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CLACSO – Social Sciences Latin American Council



UNESCO – Regional Latin America and the Caribbean Consultation on Open Access to
Scientific Information and Research – Concept and Policies
UNESCO, Kingston, Jamaica, 5-8 March 2013

Open-access (OA) literature is
digital, online, free of charge,
and free of most copyright and
licensing restrictions

Peter Suber

to advance research and allow new knowledge to be
shared, developed and used for the future benefit of
mankind (Barbara Kirsop)

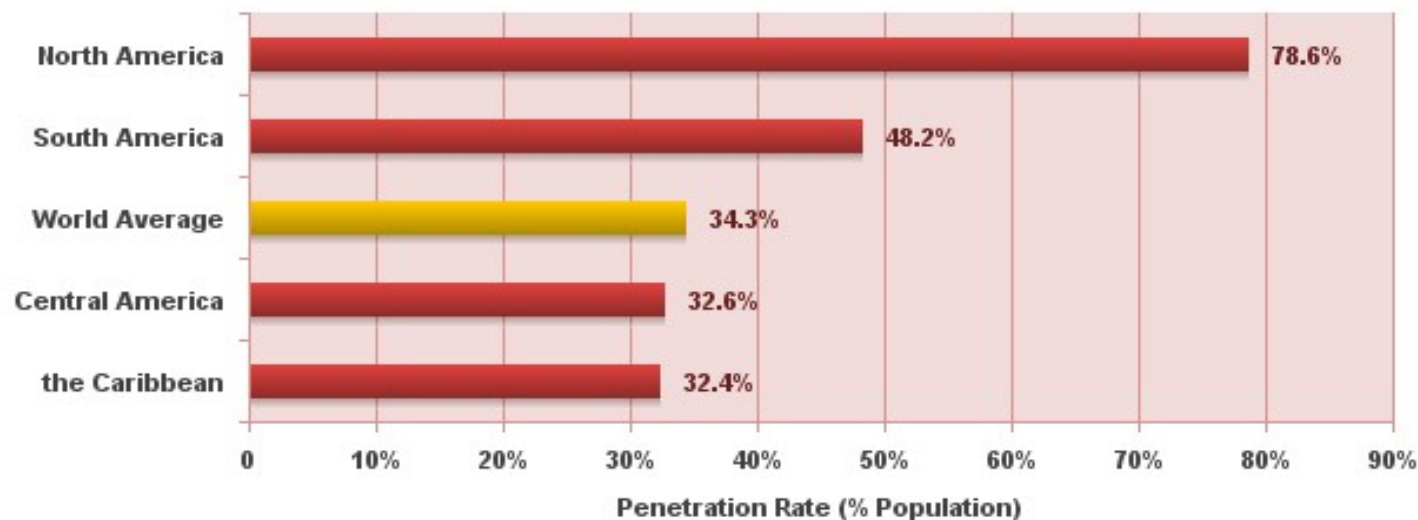
contents

- from where do we speak: our region + our experience
- background of open access in the region, enabling factors
- the **OA gold road**: key players and initiatives
- the **green OA road**: key players and initiatives
- critical success factors
- potential barriers for OA
- regional challenges: recommendations

from where do we speak
Latin America and the Caribbean

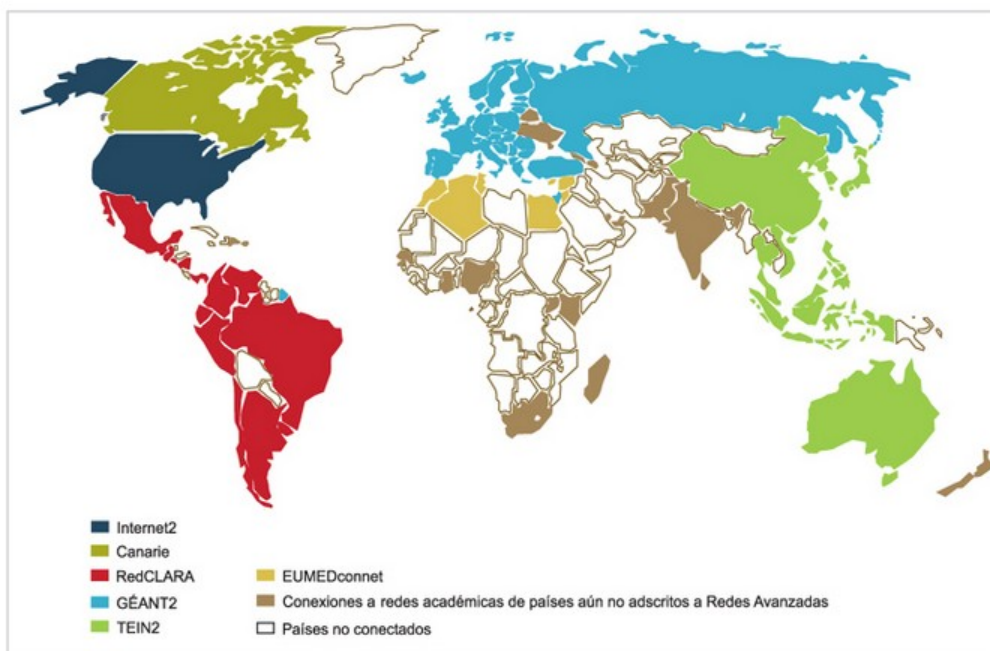
- largest gap between rich and poor
- pressing social issues that require research
- Research and dissemination: 2/3 government-funded + international cooperation
- knowledge in local language, in local publications
lack regional + int. visibility
- cost of print output  and its distribution
- impressive growth of OA and OA regional initiatives in Latin America

Internet Penetration Rate in the Americas June 30, 2012



Source: Internet World Stats - www.internetworldstats.com/stats2.htm
528,701,158 Internet users in the Americas for June 30, 2012.
Copyright © 2012, Miniwatts Marketing Group

Network Map



Networks Across the World

Map of Advanced Internet Across the World

from where do we speak

CLACSO – Latin America Social Science Council

- **313 social science institutions in 21 countries of LAC**
- **15 years of open access experience**
- **OA digital repository since 1998: 30.000 texts, average 850.000 monthly downloads**
- **participation in OA experts groups**
- **reporting LAC OA progress in UNESCO-GOAP Global Open Access Portal**



United Nations
Scientific and
Organization



Global Open Access Portal

Communication and Information » GOAP » Access by Region » Latin America and the Caribbean

A-

Access by Region

ates
d the Pacific
and North America
America and the
ean

Mandates

Organizations

Areas

Open Access Community

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Latin America and the Caribbean Overview:

In Latin America, two thirds of the investments in research and development are funded by State resources (UNESCO,2010). Funding for open access initiatives comes, directly or indirectly, from public funds and from international cooperation. Key open access players are national science agencies and universities (mainly libraries, journal editors, press units, ICT units, research/academic areas).

The region has a long tradition of regional information networking to provide open access to its research results, in **regional subject repositories** that started with bibliographic records in the 80's and now added full-texts, and in **multidisciplinary regional peer-review journal portals** developed since the end of the 90's. These two are the most important contributions from the region to the open access movement, together with the introduction in Congress, in Brazil (2007) and in Argentina (2010), of a Parliament bill, still in debate, for open access legislation at national level that mandates deposit of State funded research results in digital repositories.

In the absence of commercial academic publishers, model prevailing in developed regions, free print distribution of scientific and academic publications has been the norm and the printed version has historically suffered from irregular publication and

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MAJOR REGIONAL AND INITIATIVES

- ▶ SciELO
- ▶ Redalyc
- ▶ Latindex
- ▶ BVS
- ▶ CLASE / PERIÓDICA
- ▶ SIDALC
- ▶ The Digital Library of the Americas
- ▶ MANIOC

OA is contributing towards better integration of LAC in global conversation and knowledge societies

3 pillars “Towards knowledge societies” UNESCO, 2005

- ✓ **“identifying the types of knowledge they possess, boosting their value”**
- ✓ **“Raising awareness of the wealth of available knowledge requires a mobilization of all players in society.**
- ✓ **“better integration of knowledge policies..... need for open access policies.... “**

background of open access in the region, enabling factors

- **shared problems and needs**
- **shared language in LA (Spanish+Portuguese)**
- **State funded research and publishing**
- **tradition of regional cooperative information networking systems, ex.: agriculture (SIDALC), work (LABORDOC), health (BVS), social sciences (CLACSO, CLASE)**
- **OA publishing systems: SciELO, Redalyc, OJS**
- **Open technologies, ex.: Dspace, Greenstone,**
- **absence of commercial academic publishers**
- **research output not in ISI (lost science)**

“Clearly, the structure of scientific power is affected by Open Access, and, as result, that structure should be kept in mind while framing strategies aimed at fostering Open Access. It is difficult to imagine, except rhetorically, how advocating for Open Access can be divorced from working for a different structuring of power in science”

Guédon, Jean-Claude . *Open Access and the divide between “mainstream” and “peripheral” science.*, 2008.
<http://eprints.rclis.org/10778/>

Local and regional knowledge in **green open access**:

✓ **institutional repositories (institutional outputs)**

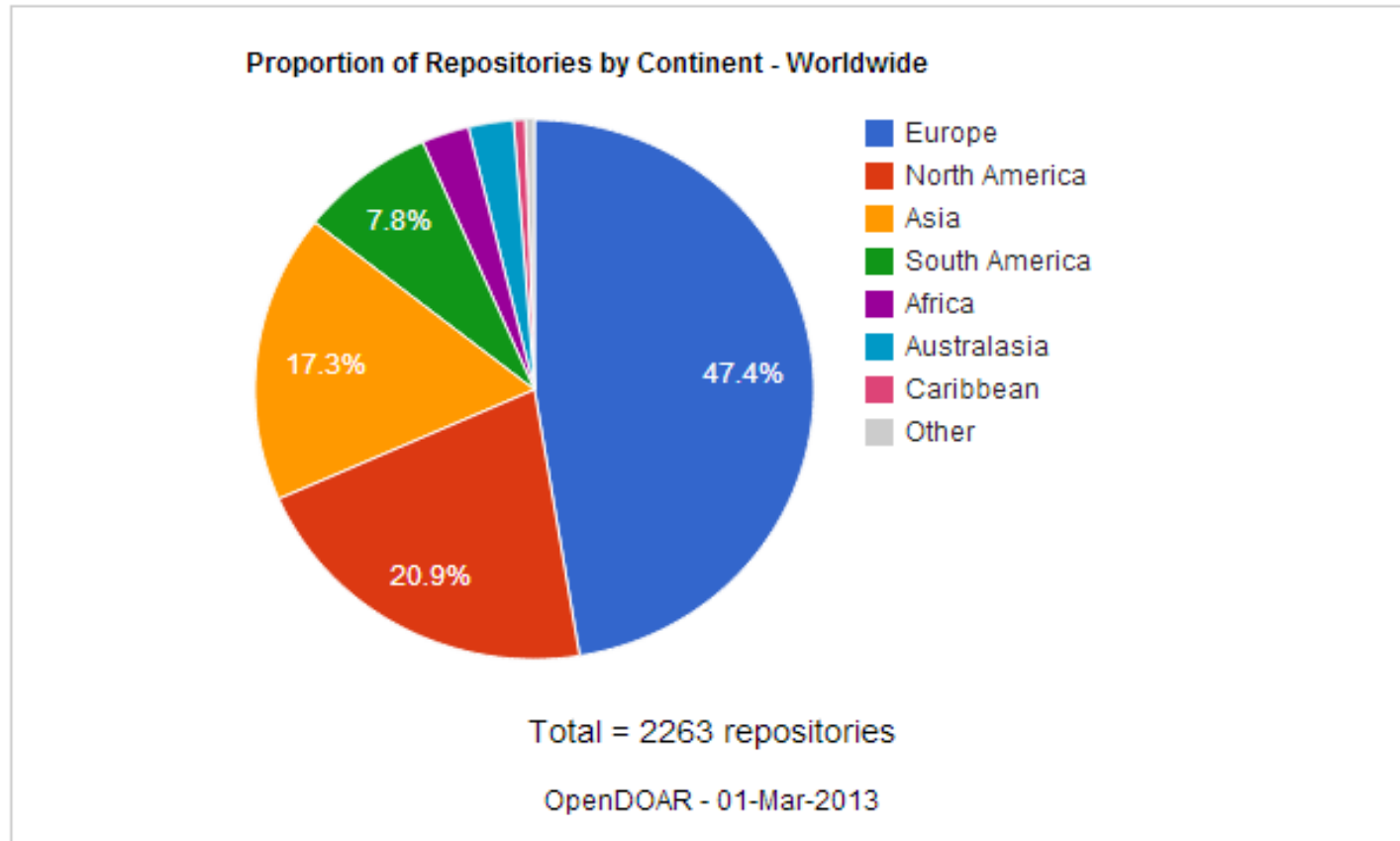
main contents: thesis, journal articles, books, multimedia, research reports, conference papers.

more recently: learning objects, datasets

✓ **subject digital repositories, ex.:**

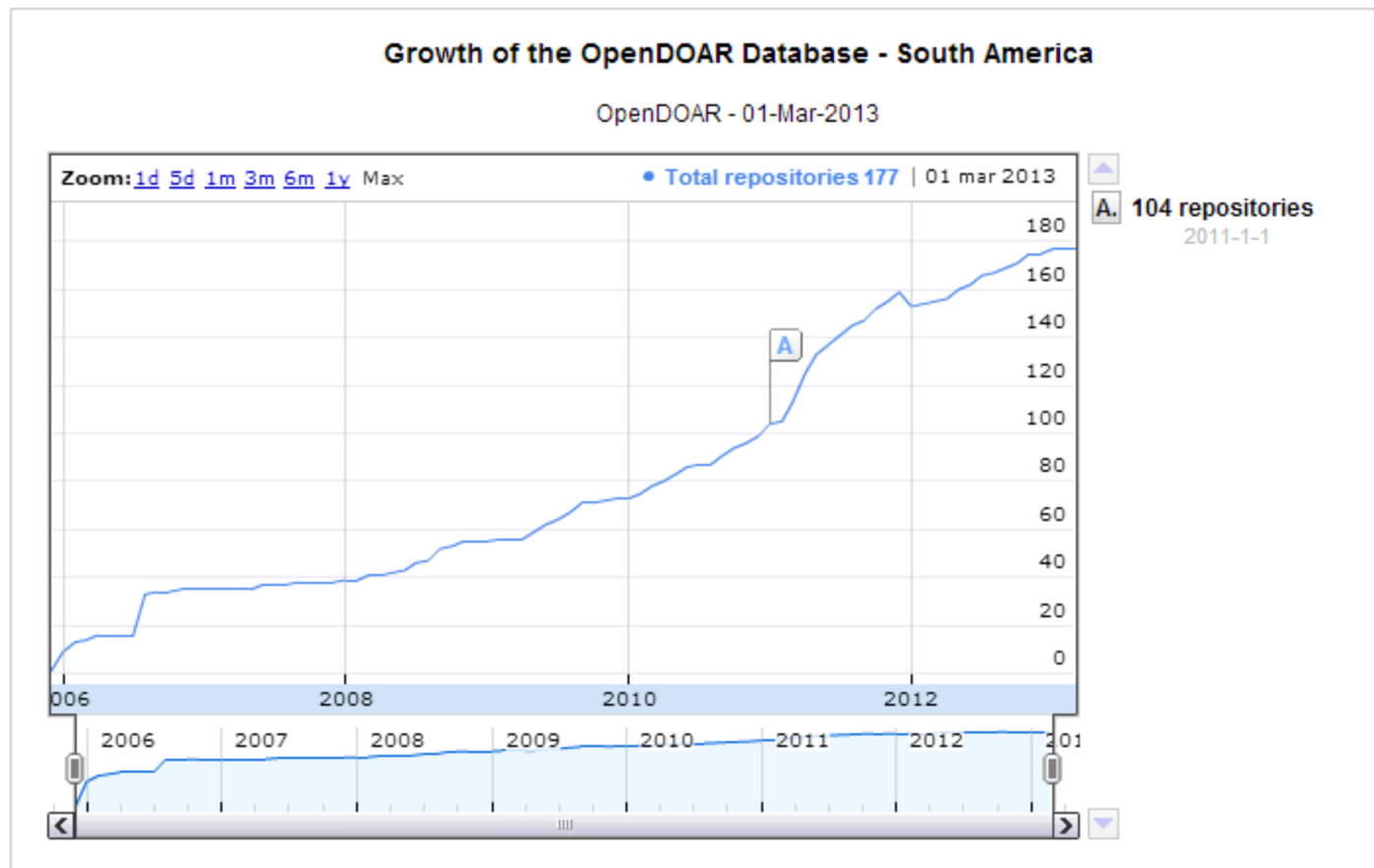
- **UN information systems:** a % of full-texts
 - Ex.: agriculture (AGRIS), work (LABORDOC, CARIBLEX), health (BVS)
- **social sciences (CLACSO)**
- **public administration (SIARE)**
- **Digital Library of the Caribbean**
- **MANIOC**

Proportion of Repositories by Continent - Worldwide



LAC: 223 institutional
repositories (10% of world
total)

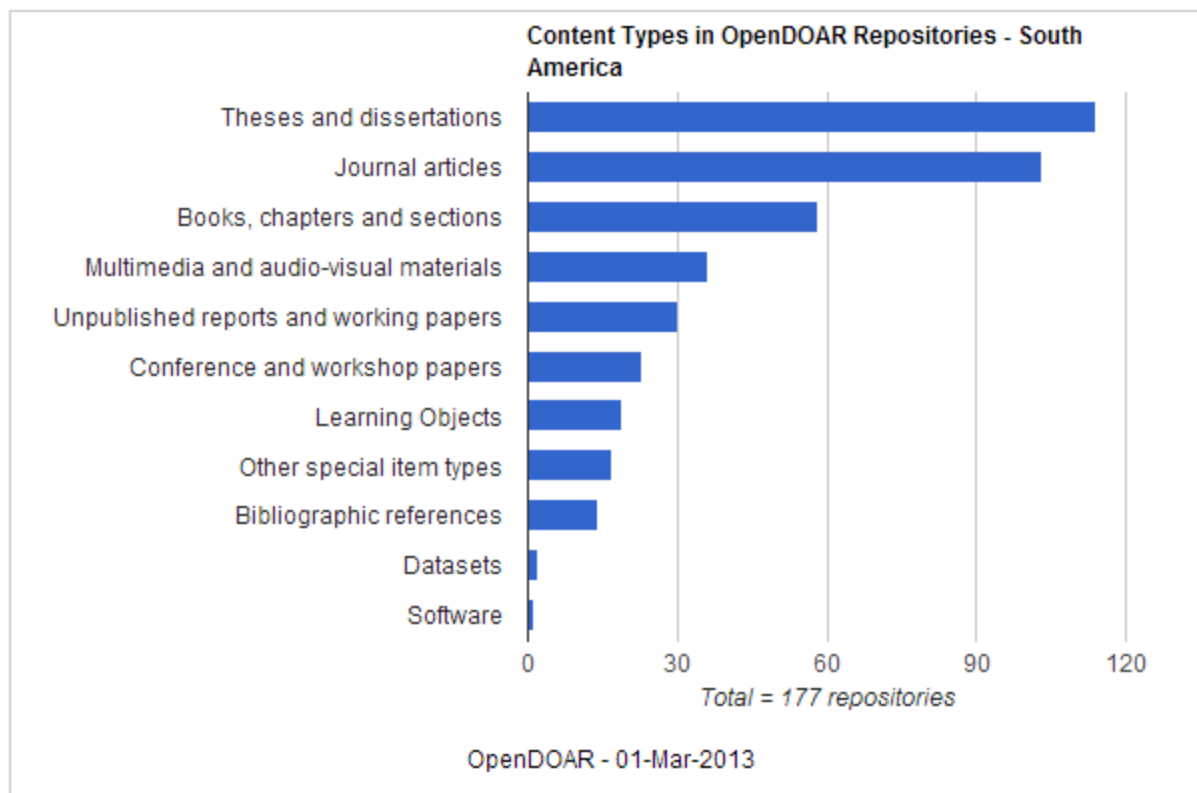
Growth of the OpenDOAR Database - South America



This graph shows the changing size of the *OpenDOAR* Database over time.

The shape of the chart in 2006 reflects the work of *OpenDOAR* rather than the growth of the number of actual repositories. A backlog of new records built up while the database was being redeveloped during mid-2006.

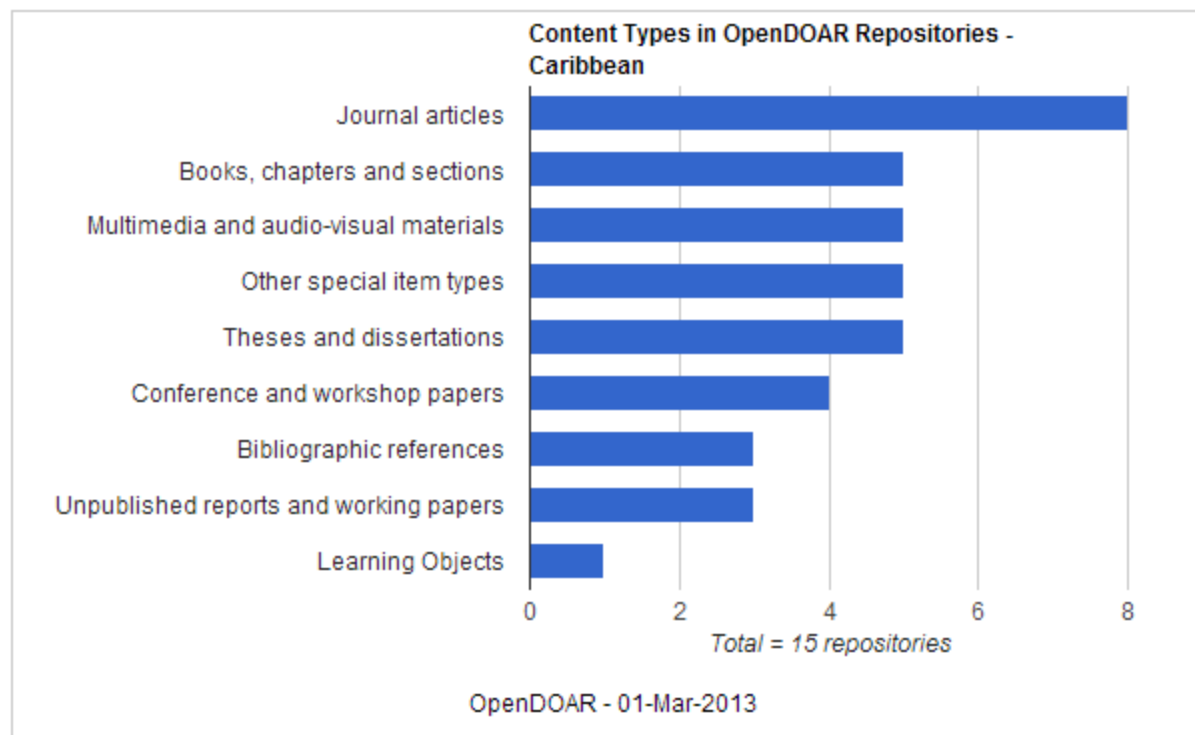
Content Types in OpenDOAR Repositories - South America



N.b. Most repositories hold several Content Types.

[Show embedding code](#)

Content Types in OpenDOAR Repositories - Caribbean



N.b. Most repositories hold several Content Types.

[Show embedding code](#)

[Show legacy chart and embedding code](#)



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CAMPAÑA CLAC

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Revistas

Multimedia

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en su sitio

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SU TEMA



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DE CLACSO

ESTADÍSTICAS

RED DE BIBLIOTECAS VIRTUALES DE CIENCIAS SOCIALES EN AMÉRICA LATINA Y EL CARIBE

BUSCA en la Red de Bibliotecas Virtuales de CLACSO

Buscar alguna de la(s) siguiente(s) palabra(s)

en todas las publicaciones Todas las colecciones de la Sala de lectura

en el índice por texto completo

artículos de revistas, libros, documentos de trabajo,
ponencias, tesis y multimedia

buscar en CLACSO

artículos de revistas arbitradas

buscar en CLACSO/Redalyc

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Contra

OPI



Subject LAC digital repository

- 30.000 full-texts , including journal collection in Redalyc
- 850.000 monthly downloads
- Community of libraries and editors



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► **Directorio Comentado de Portales en Gestión Pública**

► **Acerca del Siare**

Subject digital repository: public administration, public policies, State reform

National focal points

Subject digital collections

Regional cooperation of digital repositories

La Referencia

- **9 countries** nat. science agencies: Argentina, Brasil, Chile, Colombia, Ecuador, México, Perú, Venezuela, El Salvador
- **Support:** IADB, RedCLARA
- **Expected output:** network of digital repositories national systems + regional harvester+training

Open institutional repositories Central America+Caribbean (project)

- Project 2010 Global Network of Science Academies – IAP
- **Objective:** open Institutional Repositories Infrastructure network for Central America and the Caribbean
- **Coord:** Science Academy Cuba

Local and regional knowledge in
gold open access: numbers

- LATINDEX: 3.700 OA journals from Latin America and the Caribbean
- DOAJ: 1.654 OA journals Latin America and the Caribbean
 - 811 (50%) from Brazil
 - LAC represents 19 % of 8.680 worldwide OA journals registered

Local and regional knowledge in gold open access: institutional journal portals



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Portal de revistas

científicas y arbitradas

de la UNAM

INICIO ACCESO REGISTRO BUSCAR CONTACTO MATERIAL DE APOYO

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Búsqueda por entidad

Búsqueda por área de conocimiento

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Problemas del Desarrollo

Vol 18, No. 68

Estudios de Historia Novohispana

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Contraseña

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TAMAÑO DE FUENTE





Local and regional knowledge in gold open access: national journal portals

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O Sistema Eletrônico de Editoração de Revistas (SEER) é um software desenvolvido para a construção e gestão de uma publicação periódica eletrônica. Esta ferramenta contempla ações essenciais à automação das atividades de editoração de periódicos científicos. Recomendado pela CAPES, o processo editorial no SEER permite uma melhoria na avaliação da qualidade dos periódicos e uma maior rapidez no fluxo das informações. A aceitação do SEER pela comunidade brasileira de editores científicos vem do desempenho do sistema e de sua fácil adaptação aos processos de editoração em uso. Também o SEER permite que a disseminação, divulgação e preservação dos conteúdos das revistas brasileiras apresentem uma melhoria na adoção dos padrões editoriais internacionais para periódicos on-line 100% eletrônicos.

O Sistema de Eletrônico de Editoração de Revistas (SEER) é resultado da prospecção tecnológica realizada pelo IBICT para identificar aplicativos que possibilitassem o tratamento e a disseminação da produção científica brasileira na Web. O sistema SEER surgiu, assim, em 2003, a partir da customização do Open Journal Systems (OJS), software de gerenciamento e publicação de revistas eletrônicas desenvolvido pelo [Public Knowledge Project](#) (PKP), da University of British Columbia. Trata-se de uma inovadora iniciativa do IBICT que, imediatamente após a tradução do software OJS para o português, publicou na Web o primeiro periódico brasileiro utilizando essa tecnologia, a revista [Ciência da Informação](#). A partir de então, o IBICT iniciou o processo e distribuição do SEER a editores brasileiros interessados em publicar revistas científicas de acesso livre na Web e a promover a capacitação técnica no uso dessa ferramenta, em treinamentos sistemáticos realizados a partir de novembro de

Local and regional knowledge in gold open access: regional peer-review journal publishing and indexing services

- **SciELO**

cooperative electronic publishing with
national focal points

- 901 OA peer review journals
- from 12 countries of LAC
(national collections)
- from a total of 1.014 OA journals
from Iberoamerica and South
Africa in Scielo:

415.811 Artigos

9.008.695 Citações



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- Acesso via OAI e RSS

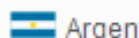
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coleções de Periódicos



Argentina



Brasil



Chile



Colômbia



Costa Rica



Cuba



Espanha



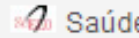
México



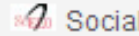
Portugal



Venezuela



Saúde Pública



Social Sciences

➔ Pesquisa artigos

método

integrada

Entre com uma ou mais palavras

Pesquisar

onde

Regional

➔ Lista periódicos

Pesquisa periódicos

Entre com uma ou mais palavras

pesquisar

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Q	R	S	T	U	V	Z	

Por publicador - todos

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I	J	L	M	N	O	P	R
S	T	U	V	W			

➔ SciELO em números

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SciELO

redesciolo

redesciolo UNESCO sedia reunião sobre sociedade do conhecimento. SciELO participa do painel Verdades e Mitos sobre Acesso Aberto.<http://t.co/j9r4q1RX>
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redesciolo Novo periódico da área de biologia vegetal "Rodriguésia" ingressa a Coleção SciELO Brasil! scielo.br/rod
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nr. of requests	article reference
3925	FREIRE, Susana E., URTUBEY, Estrella, SANCHO, Gisela <i>et al.</i> Plant biodiversity inventory of Misiones Province: Asteraceae. <i>Darwiniana</i>, 2006, vol.44, no.2, p.375-452. ISSN 0011-6793. • abstract in english spanish • text in spanish
2379	ULIBARRI, Emilio A. The genera of Caesalpinioideae (Leguminosae) from South America. <i>Darwiniana</i>, 2008, vol.46, no.1, p.69-163. ISSN 0011-6793. • abstract in spanish english • text in english
2308	ZAPATER, Maria A., CALIFANO, Laura M., DEL CASTILLO, Elvio M <i>et al.</i> Native and exotic species of Tabebuia and Handroanthus (Tecomeae, Bignoniaceae) in Argentina. <i>Darwiniana</i>, 2009, vol.47, no.1, p.185-220. ISSN 0011-6793. • abstract in spanish english • text in spanish
2251	BIGANZOLI, Fernando and MÚLGURA DE ROMERO, Maria E. Checklist of vascular plants of Teyú Cuaré Provincial Park and surrounding areas (Misiones, Argentina). <i>Darwiniana</i>, 2004, vol.42, no.1-4, p.1-24. ISSN 0011-6793. • abstract in english spanish • text in spanish
2236	ROLLERI, Cristina H. Revision of the genus Danaea (Marattiaceae-Pteridophyta). <i>Darwiniana</i>, 2004, vol.42, no.1-4, p.217-301. ISSN 0011-6793. • abstract in english spanish • text in spanish

SISTEMÁTICA Y TAXONOMÍA DE PLANTAS VASCULARES

A valid name for the taxon known as *Tillandsia bryoides* auct. (Bromeliaceae)

Sabina Donadio

Instituto de Botánica Darwinion (CONICET-ANCEFN), Labardén 200, Casilla de Correo 22, B1642HYD San Isidro, Buenos Aires, Argentina; sdonadio@darwin.edu.ar

Abstract

Tillandsia bryoides was sunken into the synonymy of *T. tricholepis* because all the elements of the lectotype (*P. Lorentz* 128, BM) belong to the latter species. However, there are many vouchers from different herbaria (some of them cited as reference material in several publications) previously identified as *T. bryoides*, that in fact correspond to a new species of *Tillandsia* subgen. *Diaphoranthema*. This new species has yellow, sessile, solitary flowers and a glabrous floral bract, and grows in central Peru, Bolivia, and central and northwestern Argentina. This paper provides a valid name for this species, an illustration, distribution data, and a discussion of the relationships with its morphologically closest species.

Keywords. Bromeliaceae; *Diaphoranthema*; Taxonomy; *Tillandsia*.

Resumen

Tillandsia bryoides fue incluida en la sinonimia de *T. tricholepis* porque todos los elementos del lectotipo (*P. Lorentz* 128, BM) pertenecen a esta última especie. Sin embargo, se observaron en el campo, en distintos herbarios y en diversas publicaciones,

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Local and regional knowledge in gold open access: regional peer-review journal publishing and indexing services

- **Redalyc**

- 689 OA peer-review journals
- from 13 countries of Latin America and the Caribbean
- from a total of 808 OA journals from Iberoamerica in Redalyc





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808

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ARTÍCULOS



Avanzada



Por Autor



Por palabra clave

REVISTAS



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CHILE	5756
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Búsqueda avanzada

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Por país

Producción científica por país 2005-2010

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Artículos Autores Revistas Áreas Instituciones Países

Búsqueda de Artículos

REVISTAS CIENTÍFICAS 234
FASCÍCULOS 7 126
ARTÍCULOS A TEXTO COMPLETO 94 347

Búsqueda avanzada

Colectores de revistas Producción científica

Por país

Producción científica por país 2005-2010

Por disciplina

Ciencias Naturales y Exactas

Por institución

Asociación Brasileira de Pós-Graduação em Saúde Coletiva
Instituto Tecnológico y de Estudios Superiores de Monterrey
Universidad Complutense de Madrid
Instituto Nacional de Salud Pública
Universidad Autónoma del Estado de México
Pontificia Universidad Católica de Chile
Universidad del Zulia
Universidad Federal de Santa Maria
Universidad Nacional de Colombia
Universidad Nacional Autónoma de México
Universidad Autónoma Metropolitana
Universidad de Costa Rica
Pontificia Universidad Javeriana
Universidad de los Andes
El Colegio de México
Universidad de Antioquia
Universidade de São Paulo
Universidade de Osnabrück
Pontificia Universidad Católica de Valparaíso

Búsqueda avanzada

Redalyc 2013: each area journals with its scientific production indicators

- Multidisciplinary
- Social sciences, arts and humanities with its indicators
- Sciences journals with its indicators

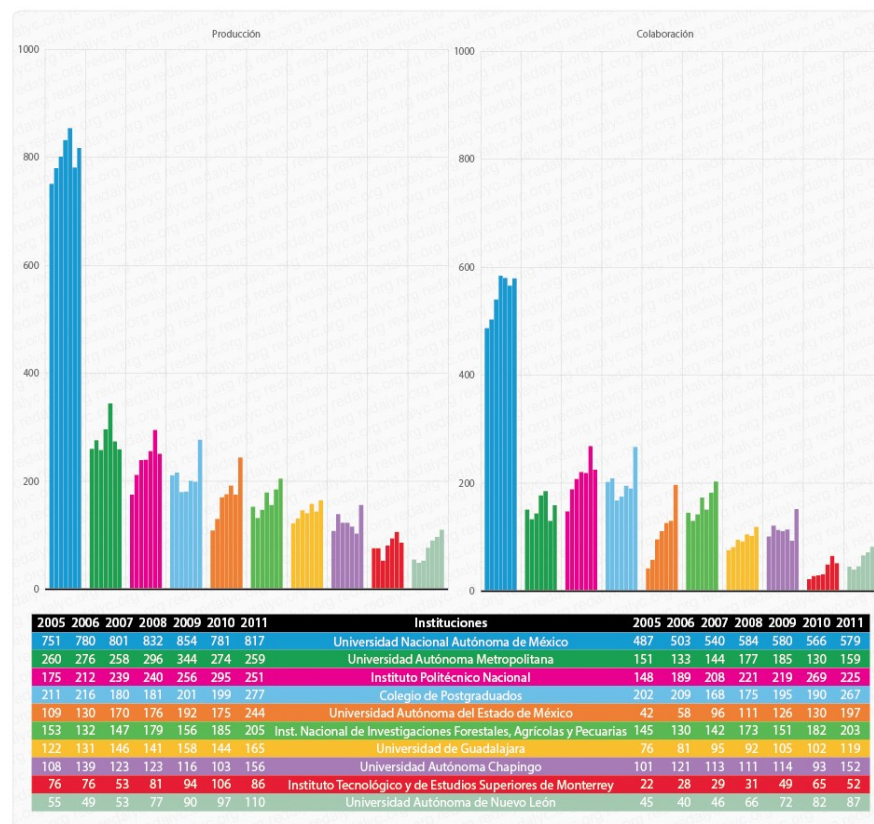
Gráfica 12. Perfil de la producción científica de México, 2005-2011



		P (%)	C (%)		PC (%)
Interna	Institucional	26.5	47.7	En colaboración	66.9
	No institucional	54.6	35.9	Sin colaboración	33.1
	Externa	18.9	16.4		

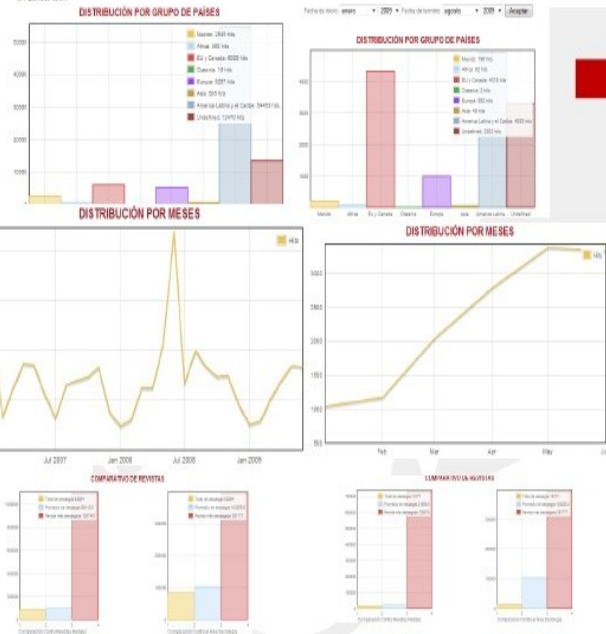
Fuente | Elaboración propia Laboratorio de Cienciometría Redalyc-Fractal (LabC^{fr}).
 Datos: redalyc.org a partir de 145,515 artículos del acervo 2005-2011 de 800 revistas.
 Metodología: <http://www.redalycfractal.org/met> Generación: Diciembre 2012.

Gráfica 22. Comportamiento anual de la producción y colaboración, 2005-2011.
 Instituciones que más aportan a la producción nacional



Fuente | Elaboración propia Laboratorio de Cienciometría Redalyc-Fractal (LabC^{fr}).
 Datos: redalyc.org a partir de 145,515 artículos del acervo 2005-2011 de 800 revistas.
 Metodología: <http://www.redalycfractal.org/met> Generación: Diciembre 2012.

Redalyc reports for institutions, journals, subjects





Universidad Nacional
Autónoma de México

Portal de Portales
latindex

Regional journal articles harvester

- 1.295.547 articles from Iberoamerica
- Harvesting journal portals
- OA Harvester 2 de PKP

The screenshot displays the Portal de Portales latindex interface. It features a list of journal articles with search filters and navigation options. The articles are organized into rows, each with a title, author, year, and journal information. The search filters include 'y exclusión social: los múltiples rostros de Caracas' and 'Prueba piloto y validación del índice sintético de pobreza'. The navigation options include 'VER', 'REGISTRO', 'TEXTO', and 'COMPLETO'. The interface also includes logos for SciELO Chile, reAlalyc, and Dialnet.

Article Title	Author	Year	Journal	Navigation
y exclusión social: los múltiples rostros de Caracas	Sánchez, Leslie; Ruiz Flores, Juan Carlos			VER, REGISTRO, TEXTO, COMPLETO
Prueba piloto y validación del índice sintético de pobreza	Guillermo Ramírez; Alberto Camardiel; Maura Vásquez	2001	Revista Venezolana de Análisis de Coyuntura (Venezuela) Num.002 Vol.VII	VER, REGISTRO, TEXTO, COMPLETO
Políticas públicas de combate a la pobreza en Yucatán, 1990-2006	Susana Pérez Medina	2011	Gestión y Política Pública (México) Num.2 Vol.XX	VER, REGISTRO, TEXTO, COMPLETO
Pobreza femenina: ¿pobreza escondida?	Brunet Icart, Ignasi; Valls, Francesc; Belzunegui Eraso, Angel Gabriel	2009	RIO: Revista Internacional de Organizaciones, ISSN 2013-570X, Nº. 3, 2009 (Ejemplar dedicado a: Pobreza, Exclusión Social y Género), pags. 91-110	VER, REGISTRO, TEXTO, COMPLETO
Pobreza subjetiva en México: el papel de las normas de evaluación del ingreso	Elisa Jiménez; Mariano Rojas	2008	Perfiles Latinoamericanos (México) Num.32	VER, REGISTRO, TEXTO, COMPLETO

critical success factors **of open access initiatives in Latin America**

- funding for open access: directly or indirectly, from public funds+international cooperation
- regional scope
- participatory
- perceived benefits of OA
 - improves quality, visibility and access
 - international visibility in academic harvesters and search engines
 - provides the basis for regional indicators and complementing/comparative international indicators

barriers for further OA adoption

- **access (technology,language,education)**
- **research evaluation based on impact factor IF**
- **lack of indicators from OA regional portals**
- **“author pays” open access business models**
- **funds for institutional/national repositories**
- **needed local contents in OA digital repositories / OA mandates / OA legislation**

OA mandates and legislation

OA mandates in LA

- 20 institutional OA mandates from Latin America (4% of 482 mandates registered in ROARMAP)
 - Argentina
 - Bolivia
 - Brazil
 - Colombia
 - Perú
 - México
 - Venezuela

OA legislation in LA

Presently discussed in Congress in:

- ARGENTINA
 - BRAZIL
 - PERU

State funded research results made available OA in digital repositories

Challenges: dissemination of results is part of the research cost

“better integration of knowledge policies..... need for open access policies.... “

UNESCO ´s first World Report 2005 “Towards knowledge societies”

- **Prevent new enclosure to government funded research results**
- **Promote OA free for authors-free for users**
- **Institutional repositories+harvesters: no charge for authors**
- **Commercial editors and open access entrepreneurs can contribute with value-added services and charge for those additional services, ex. mega journals, epi journals....**

Challenges: Knowledge as a shared resource, as a commons

Charlotte Hess and Elinor Ostrom.

Understanding knowledge as a commons, MIT, 2006

- **discuss how to define, protect, and build the knowledge commons in the digital age, sharing responsibilities and costs.**
- **avoid new enclosures**
- **participatory approach to open access**
- **OA policies and mandates**
contents: texts+data+multimedia

Challenges: new formats of research communication not only peer-reviewed



Challenges: review research evaluation procedures

"Until the emphasis on publication in established high impact subscription journals and on metrics as a measure of quality is altered, open access will face ongoing challenges"

Tim Berners-Lee, WWW creator

- Develop indicators in OA portals from the region to complement evaluation indicators from ISI and SCOPUS
- Incorporate altmetrics
- Institutional repositories: metadata describing evaluation procedures of digital objects
- Advocacy among high level officials

Challenges: support for regional OA cooperation

Raising awareness of the wealth of available knowledge requires a mobilization of all players in society.
UNESCO World Report "Towards knowledge societies" (2005)

- Latin America – Caribbean OA cooperation
- Research on OA needs and priorities (ex. UNESCO, INASP, IDRC-FLACSO)
- Development of OA indicators + analysis (ex.Redalyc)
- OA policies, mandates: OA advocacy at Executive and Legislative
 - ministerial regional meeting (education + S&T)
 - National research councils + university networks
 - S&T Congress commissions (when OA bill introduced)(well funded publishing lobby needs well funded OA lobby)
- Translate UNESCO OA Guidelines and GOAP
- Interoperability of green and gold OA repositories from LAC
- Training
- OA linked to e-learning, OER, e-science

INTERNATIONAL SEMINAR OPEN ACCESS FOR DEVELOPING COUNTRIES

BIREME/PAHO/WHO

Latin American and Caribbean Center on Health Sciences Information
Pan American Health Organization / World Health Organization

Salvador, Bahia - Brasil - September 21-22, 2005

icml9

recomendations

presentation

Salvador Declaration on Open Access: The Developing
World Perspective

- We urge governments to make Open Access a high priority in science policies including:
- requiring that publicly funded research is made available through Open Access;
- considering the cost of publication as part of the cost of research;
- strengthening the local OA journals, repositories and other relevant initiatives;
- promoting integration of developing countries scientific

participatory knowledge societies



Source:

<http://blog.arenastage.org/a/6a00d83453608860e20162fc7a9dde9>

Thank you !!!
Dominique Babini, CLACSO
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Information and participation:

- [GOAP Global Open Access Portal](#)
- [OA in LAC bibliography](#)
- OA in LAC discussion list
 - [LLAAR](#) + in international WSIS Forum
- OA in LAC events, ex.: [BIREDIAL](#), [OA week](#)