

# Open Access Publishing And BioMed Central

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- ◆ Benefits of Open Access
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# What is different about the Open Access publishing business model?

# Traditional research publishing

- ◆ The research community transfers the rights to the research to the publisher
- ◆ The publisher covers costs by selling access to the content

# What is Open Access?

# What does we mean by “Open Access” to scientific research?

- ◆ Universally available via the Internet, without any barriers to access
- ◆ Licensed so as to allow redistribution and reuse as long as attribution is given
- ◆ Permanently archived in an internationally recognized repository (*e.g.* PubMed Central)

# Issues leading to Open Access

- ◆ Library budgets are under pressure
  - Massive increase in research output
  - Budgets static or declining
  - serials crisis
- ◆ Journal publishers not making best use of technology
- ◆ Transfer of © allows publishers to restrict access
  - Detrimental to researchers
- ◆ Tax-payer access

# Routes towards Open Access

## ♦ Gold OA

### **Publishing in an open access journal**

- Fully OA journals  
e.g. BioMed Central, Public Library of Science *etc*
- Optional OA in traditional journals  
(now offered by most major publishers)

## ♦ Green OA

### **Depositing articles in an OA repository**

- | Subject repositories | Institutional repositories |
|----------------------|----------------------------|
| - PubMed Central     | -DSpace                    |
| - UK PubMed Central  | -Eprints                   |
| - ArXiv              | -Fedora                    |
|                      | -Open Repository           |



# Open Access research publishing

- ◆ No barriers to access
- ◆ No exclusive rights
- ◆ Publisher receives payment for the service of publication

# Benefits of Open Access

# Benefits of Open Access

- ◆ Lack of subscription barriers ensures all researchers can build on results of previous work
- ◆ Articles are widely indexed easy to find
- ◆ Barriers between fields are removed
- ◆ Public access promotes engagement with scientific and medical research

# ◆ Visibility

## The Open Access Publisher

home | journals A-Z | subject areas | advanced search | authors | reviewers | libraries | about | my BioMed Central

### Quick Search

- BioMed Central
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- PubMed

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- Journals A-Z
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- Independent journals
- Open access and the

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Figures given indicate the abstract, full text and PDF accesses on BioMed Central for each article, over the last 30 days. All research articles are also available via the PubMed Central archive, so the total number of accesses to each article is significantly higher. Lists of [most-viewed articles in the past year](#) and [all time most-viewed articles](#) are also available.

- 1. Research article** Open Access  
Accesses 7946 **Coffee consumption modifies risk of estrogen-receptor negative breast cancer**  
Jingmei Li, Petra Seibold, Jenny Chang-Claude, Dieter Flesch-Janys, Jianjun Liu, Kamila Czene, Keith Humphreys, Per Hall  
*Breast Cancer Research* 2011, **13**:R49 (14 May 2011)  
[Abstract] [Provisional PDF] [PubMed] [Related articles]
- 2. Research article** Open Access Highly accessed  
Accesses 6924 **Development of a risk score for low back pain in office workers - a cross-sectional study**  
Prawit Janwantanakul, Praneet Pensri, Patriya Moolkay, Wiroj Jiamjarasrangsi  
*BMC Musculoskeletal Disorders* 2011, **12**:23 (25 January 2011)  
[Abstract] [Full text] [PDF] [PubMed] [Related articles]
- 3. Research article** Open Access Highly accessed  
Accesses 6063 **Behavioral mechanisms and morphological symptoms of zombie ants dying from fungal infection**  
David P Hughes, Sandra Andersen, Nigel L Hywel-Jones, Winanda Himaman, Johan Billen, Jacobus J Boomsma  
*BMC Ecology* 2011, **11**:13 (9 May 2011)  
[Abstract] [Provisional PDF] [PubMed] [Related articles]
- 4. Review** Open Access Highly accessed  
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genomics

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### [Genomics - Wikipedia, the free encyclopedia](#)

**Genomics** is the study of the genomes of organisms. The field includes determining the entire DNA sequence of organisms and fine-scale ...

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### [Genome - Wikipedia, the free encyclopedia](#)

In classical genetics, the **genome** of a diploid organism includes all of the chromosomes or genes in a gamete; thereby, ...

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### [Genomics - Elsevier](#)

**Genomics** is a forum for describing the development of **genome-scale** application to all areas of biological investigation. ...

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### [BMC Genomics](#)

BMC **Genomics** is an open access journal publishing original peer-reviewed articles in all aspects of **genome-scale** analysis, functional **genomics**, ...

[www.biomedcentral.com/bmcgenomics/](http://www.biomedcentral.com/bmcgenomics/) - [Cached](#) - [Similar](#)

### [Genomics|Home](#)

Collection of research articles aimed at human **genomic** discoveries, reports and genetic testing.

[www.cdc.gov/genomics/](http://www.cdc.gov/genomics/) - [Cached](#) - [Similar](#)

## Similarly:

- ◆ Cell Biology
- ◆ Molecular Biology
- ◆ Systems Biology
- ◆ Bioinformatics
- ◆ Developmental Biology

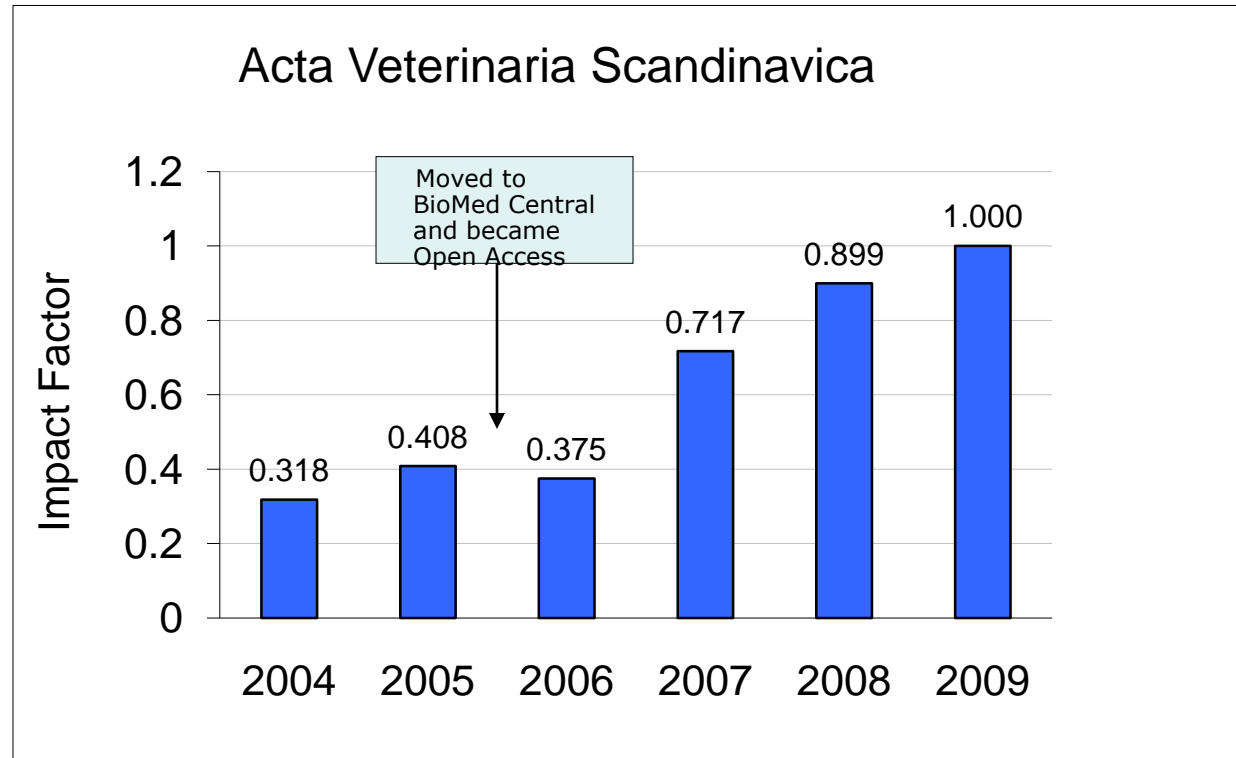
All on first page of

# Many journals are transferring to OA publication

- Wider dissemination / web integration/ more international reach
- Increase in number and quality of submissions
- Improvement of bibliometric performance / impact factor
- In fields relying heavily on image reproduction, “colour charges” for publications in subscription-based journals are often higher than BioMed Central’s article processing charges

# Increasing visibility and increasing impact for a society journal

**AVS** ACTA VETERINARIA  
Acta Veterinaria  
Scandinavica SCANDINAVICA



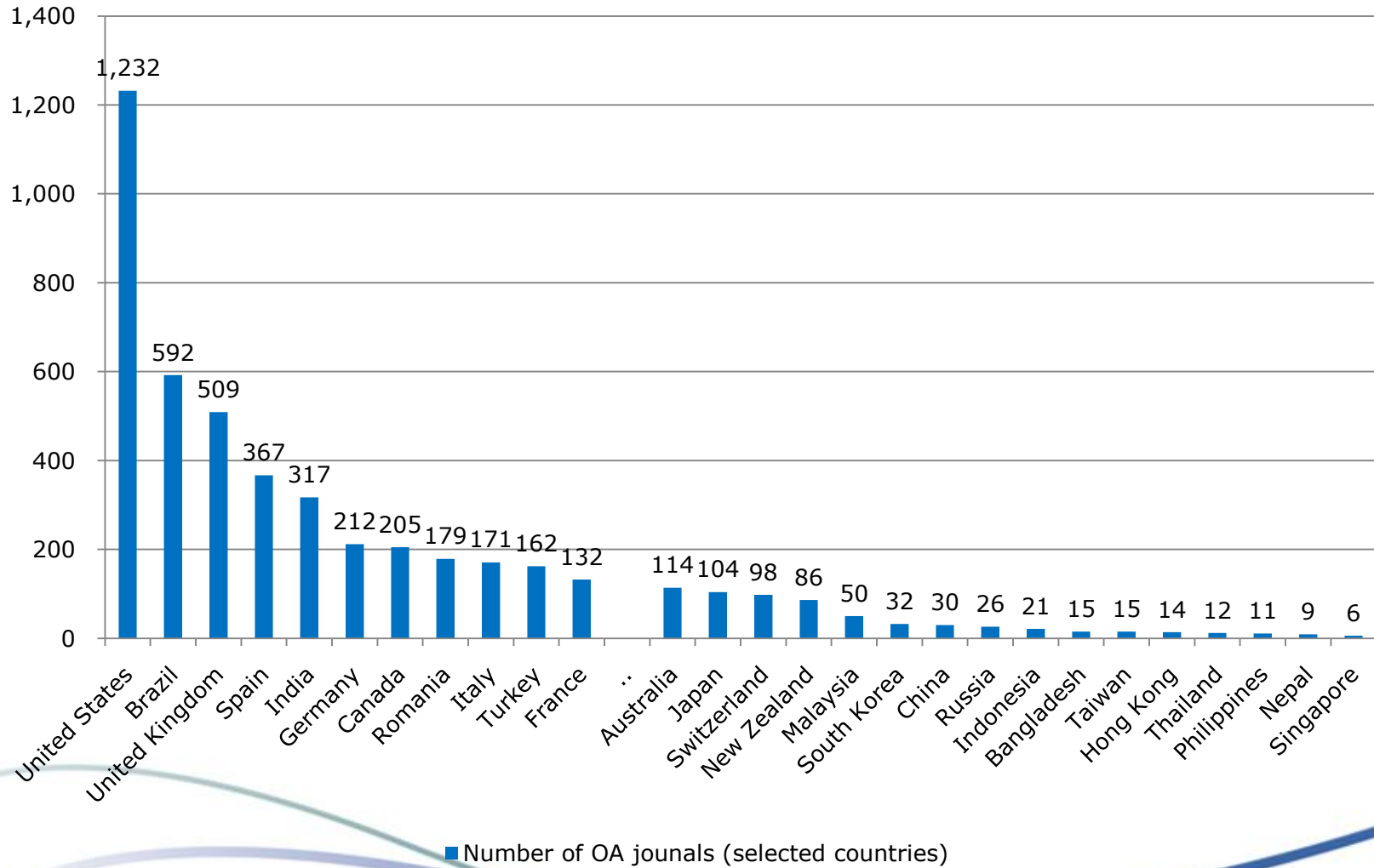
# Open Access at 2011



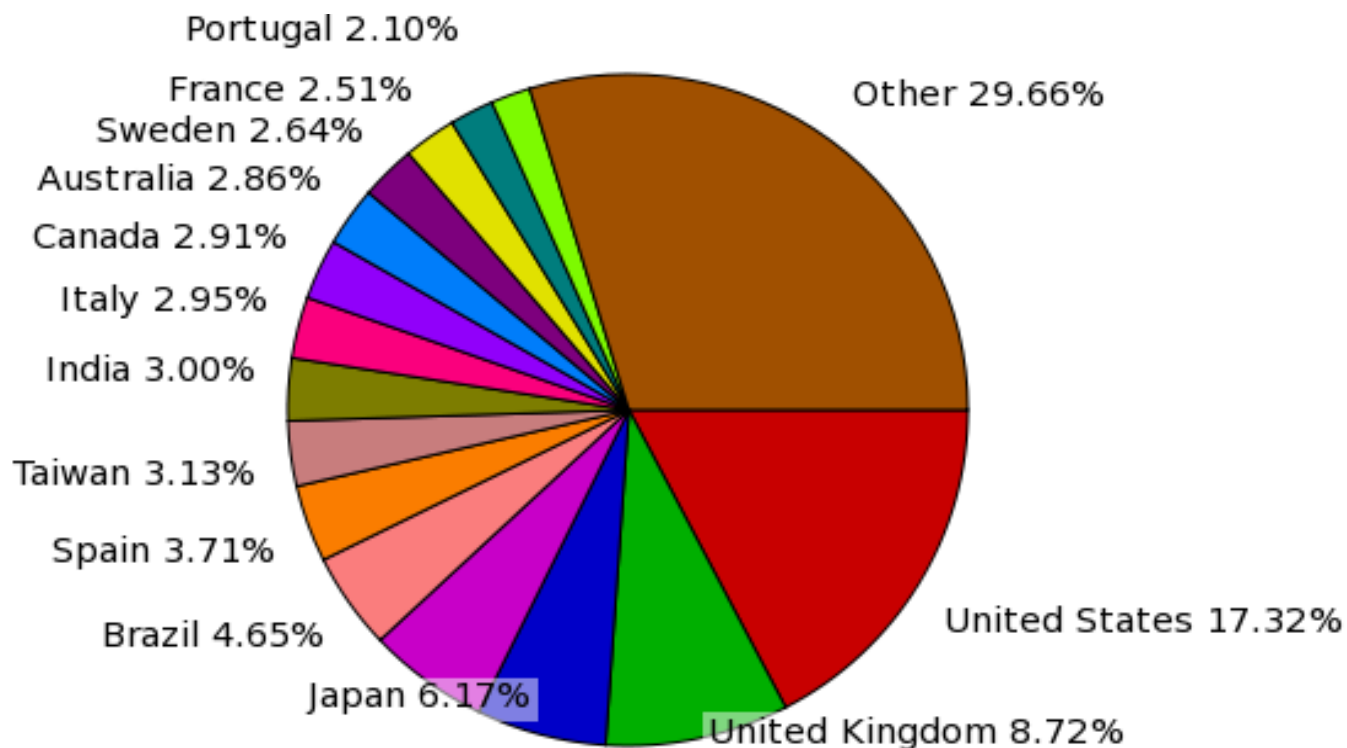
# Where is Open Access in 2011?

- ◆ Open access to research is now mandatory in over 120 institutions and 48 funders
- ◆ Total 277 mandates
- ◆ 2,282 repositories in 89 countries
- ◆ 6,568 open access journals in 111 countries;
- ◆ 573,925 open access articles
- ◆ 60 members in Open Access Scholarly Publishers Association

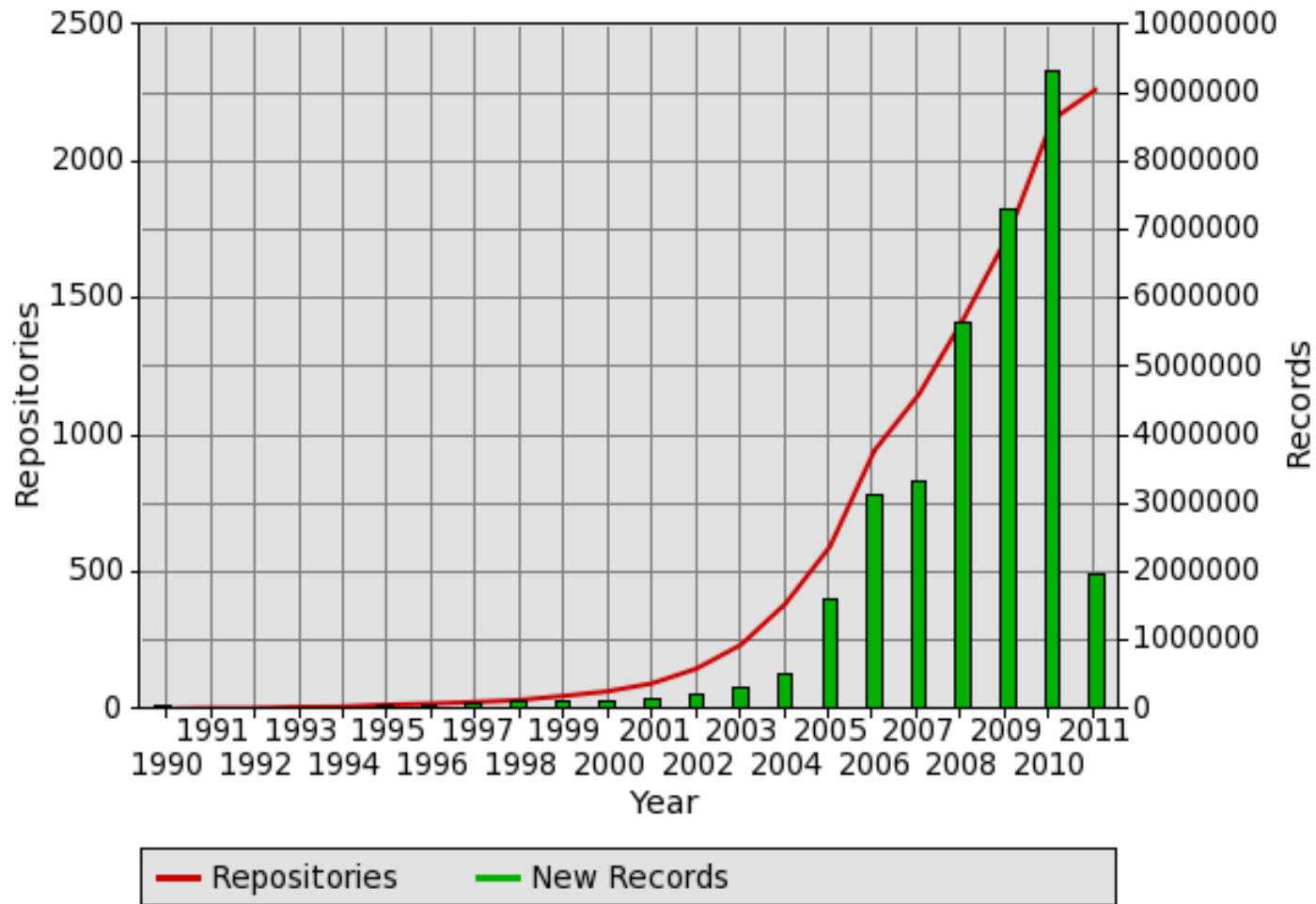
## Number of OA journals (selected countries)



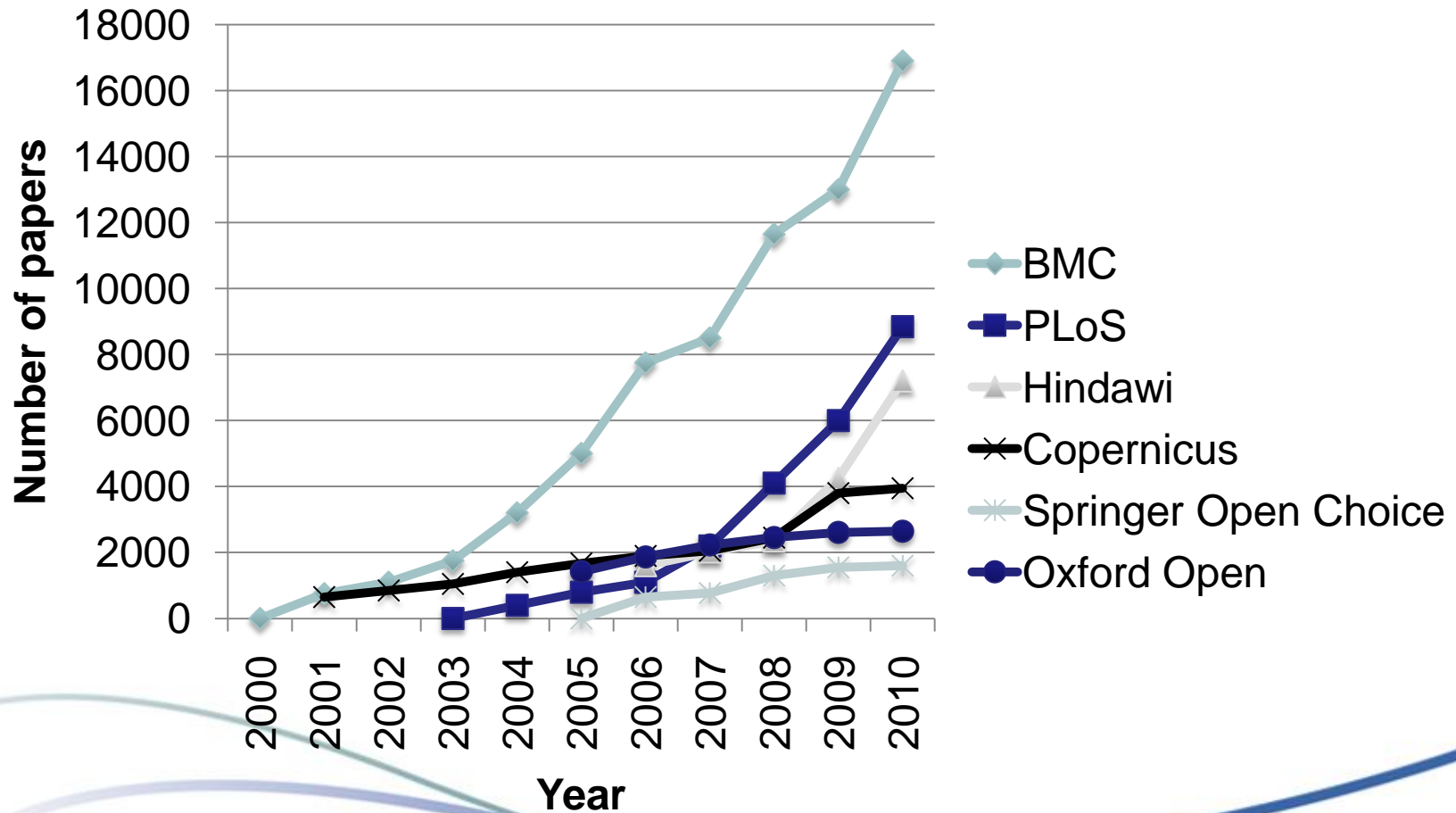
# Repositories by countries



# Number of repositories and records



# OA Papers Published 2000-2010



# Open Access Malaysia 2011

- ◆ 50 open access journals, ranked 26<sup>th</sup> worldwide, ranked 5<sup>th</sup> in Asia
- ◆ 19 open access repositories, ranked 21<sup>st</sup> worldwide, ranked 6<sup>th</sup> in Asia

# About BioMed Central

- ◆ Largest publisher of peer-reviewed open access journals
- ◆ Launched first open access journal in 2000
- ◆ Became part of Springer in 2008
- ◆ Now publishes >210 OA titles
- ◆ >90,000 peer-reviewed OA articles published
- ◆ All research articles published under Creative Commons license
- ◆ Costs covered by article processing charge (APC)

# Springer's acquisition of BioMed Central



+





# SpringerOpen<sup>®</sup>


 Environmental Sciences Europe  
a SpringerOpen Journal

 Health Economics Review  
a SpringerOpen Journal

 Security and Intelligence Informatics  
a SpringerOpen Journal

 Global Energy  
a SpringerOpen Journal

 Journal of Mathematical Neuroscience  
a SpringerOpen Journal

 Applied Microbiology and Biotechnology Express  
a SpringerOpen Journal

 Journal of Mathematics in Industry  
a SpringerOpen Journal

 Planetary Science  
a SpringerOpen Journal

 Journal of Remanufacturing  
a SpringerOpen Journal

 Gold Bulletin  
a SpringerOpen Journal

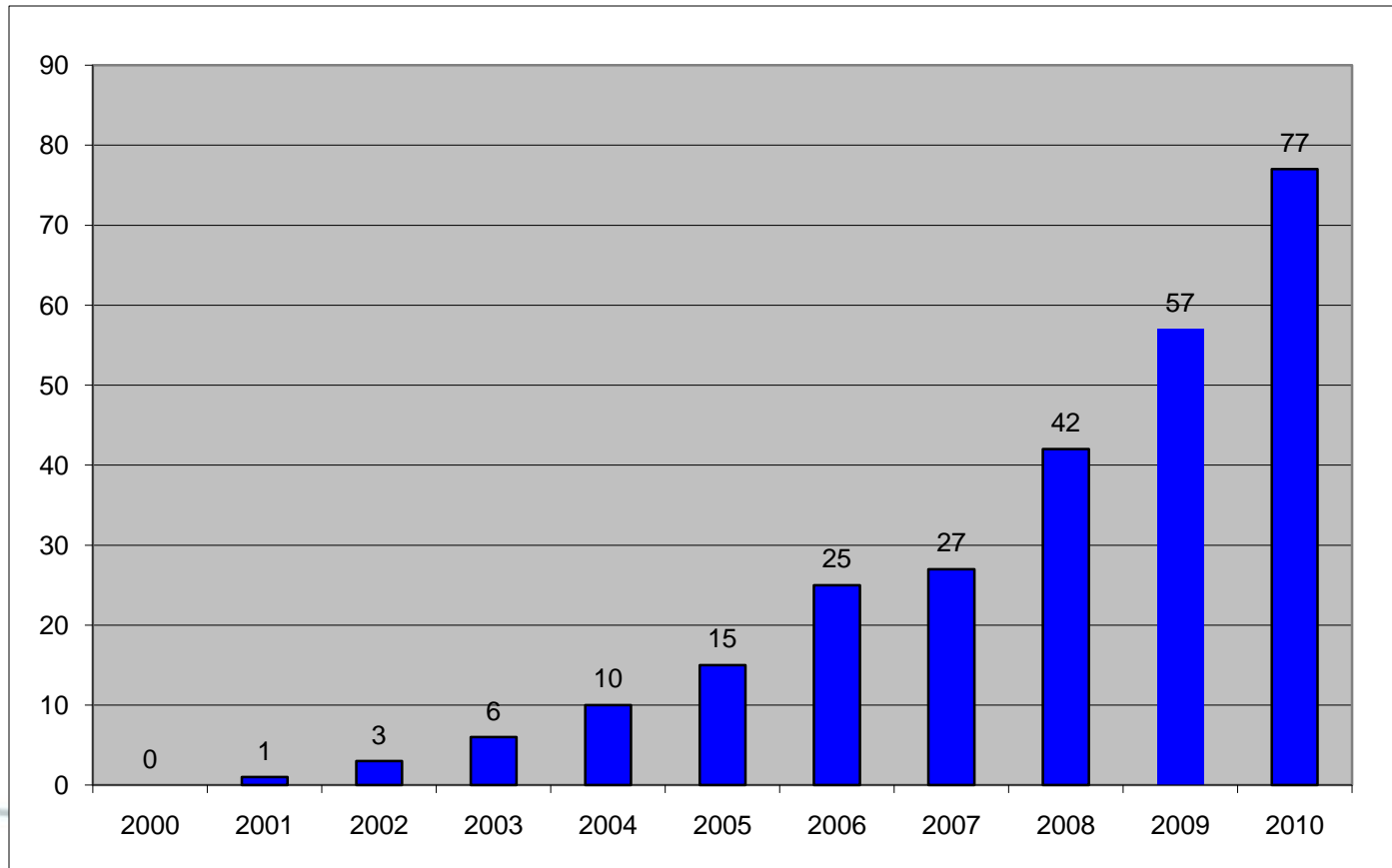
 Bulletin of Mathematical Sciences  
a SpringerOpen Journal

 Psychology and Well-Being Research  
a SpringerOpen Journal

# Journals that include additional content for subscribers



# BioMed Central journals with official Thomson Reuters/ISI impact factors



# Impact Factors 2009



# Journal Tracking and Indexing

- ◆ All articles in journals published by BioMed Central are included immediately in **PubMed**.
- ◆ All BioMed Central's Journal are indexed by **CAS** and **Scopus**
- ◆ All BioMed Central's biology titles are indexed by **BIOSIS**
- ◆ All BioMed Central research articles are indexed by the science focused search engine, **Scirus**
- ◆ Full text of all BioMed Central research articles are available without registration or subscription, search engines such as **Google** also index them
- ◆ BioMed Central also participate in **CrossRef** and the **Open Citation Report**

# Journal Tracking and Indexing

- ◆ BioMed Central's journals are included in MEDLINE
- ◆ BioMed Central's journals are tracked by
  - EMBASE
  - Scopus
  - ACM
  - AGRICOLA
  - BIOSIS
  - CAS
  - CABI
  - Cinahl
  - Current Contents
  - FSTA
  - Medscape
  - PsycINFO
  - PAIS International
  - Zoological Record



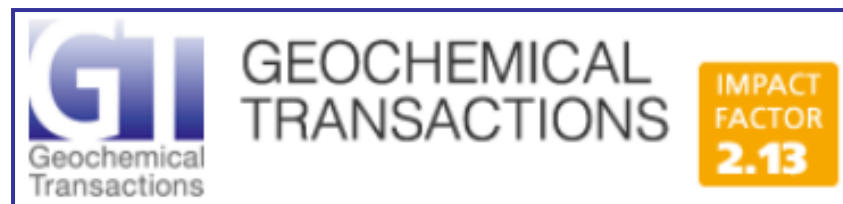
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open access to chemistry



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Journal



Journal of  
**Cheminformatics**  
[www.jcheminf.com](http://www.jcheminf.com)



# Institutional Open Access repositories



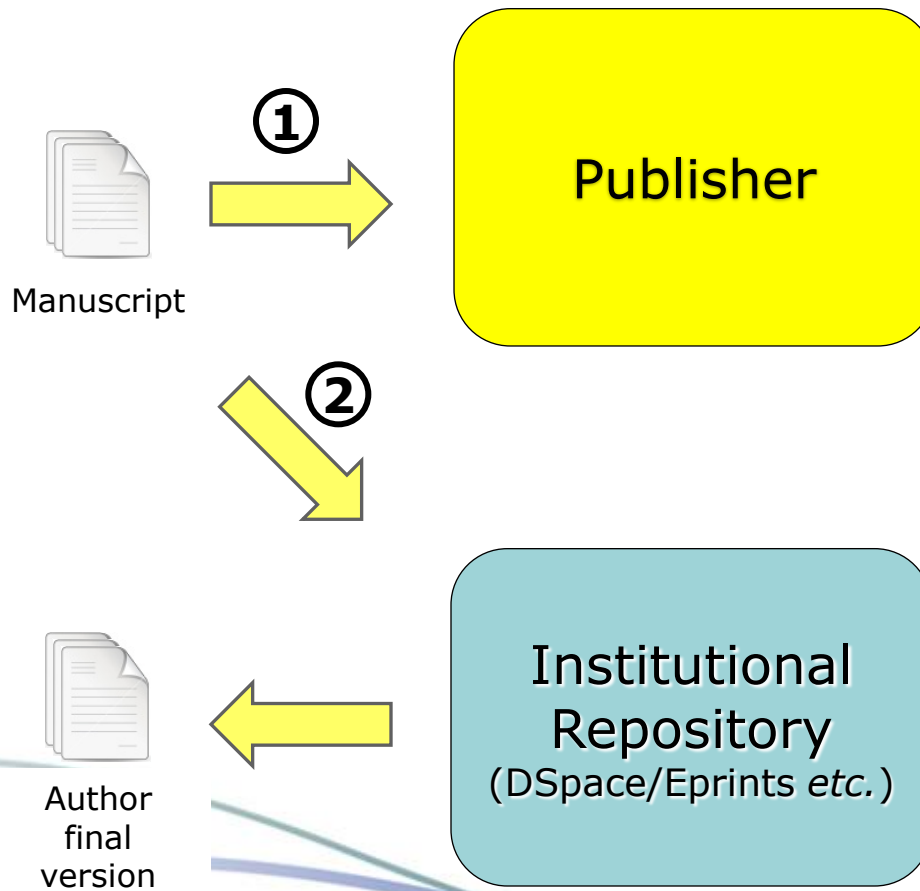
# Examples of additional services



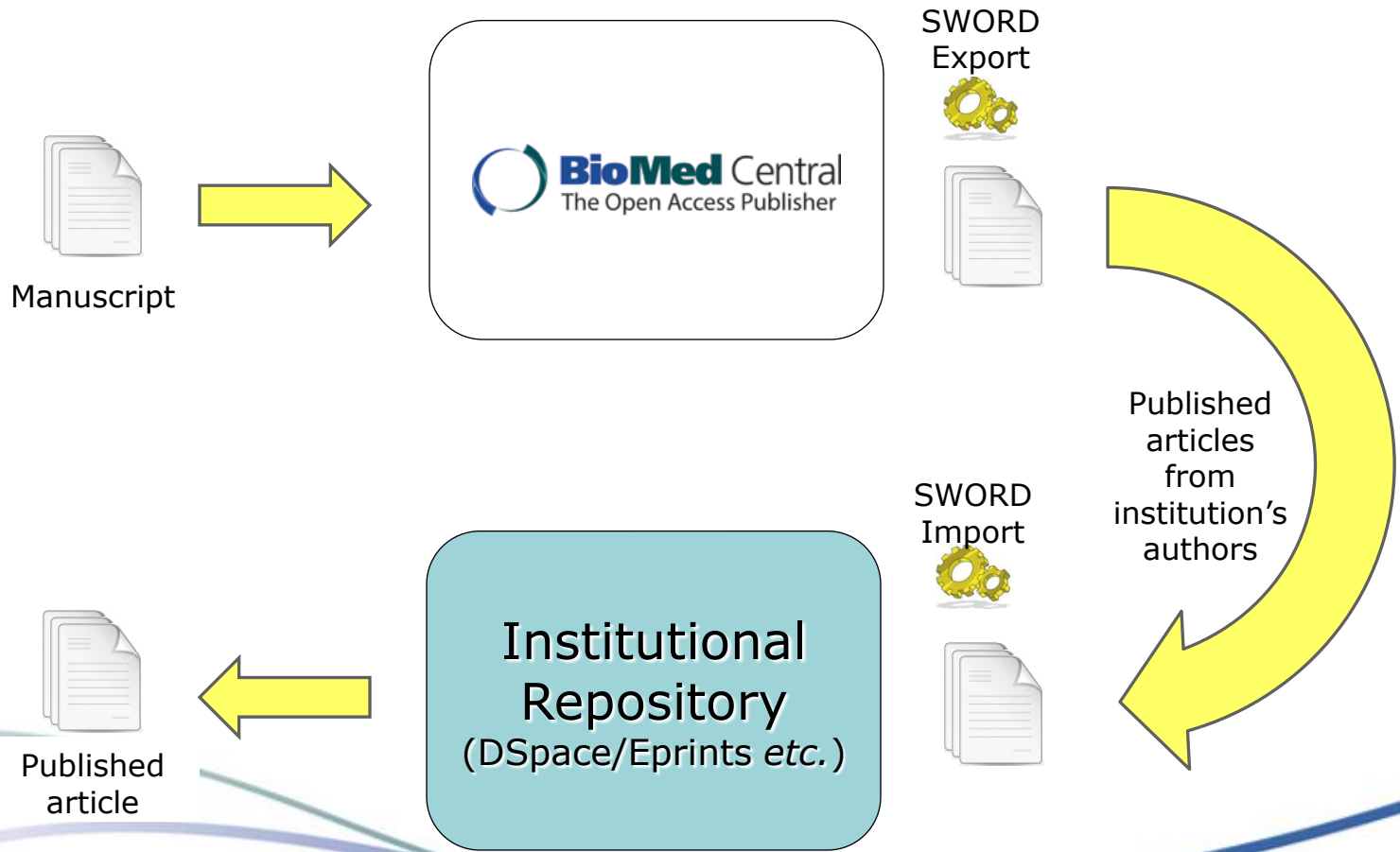
- ◆ A hosted digital repository solution
- ◆ Integration ensures articles published in OA journals can easily be included

A screenshot of the MSF Field Research website. The page features the MSF logo (Medecins Sans Frontieres) and the title "MSF Field Research". The navigation bar includes links for Home, My MSF, Submit, Help, Feedback, and Register/Login. The main content area is divided into several sections: a search bar, a "Welcome" message, a "Contents" section with a list of links (Published Research and Commentary for PubMed articles, Conference Abstracts, MSF's Ethics Review Board, Programme Descriptions, Collaborating Partners, and Feedback), a "Feedback" section, and a "Latest submissions" section with a list of recent articles. The right sidebar contains a "How to use" section with links for registration, search, and content submission, and an "RSS feeds" section with buttons for RSS 1.0 and RSS 2.0. The footer includes the text "Powered by Open Repository" and a logo for W3C XHTML 1.0.

# Manual deposit to IR



# Automated deposit to IR via SWORD



# Open Data

# BMC Research Notes

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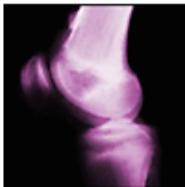
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*BMC Research Notes* 2011, 4:118

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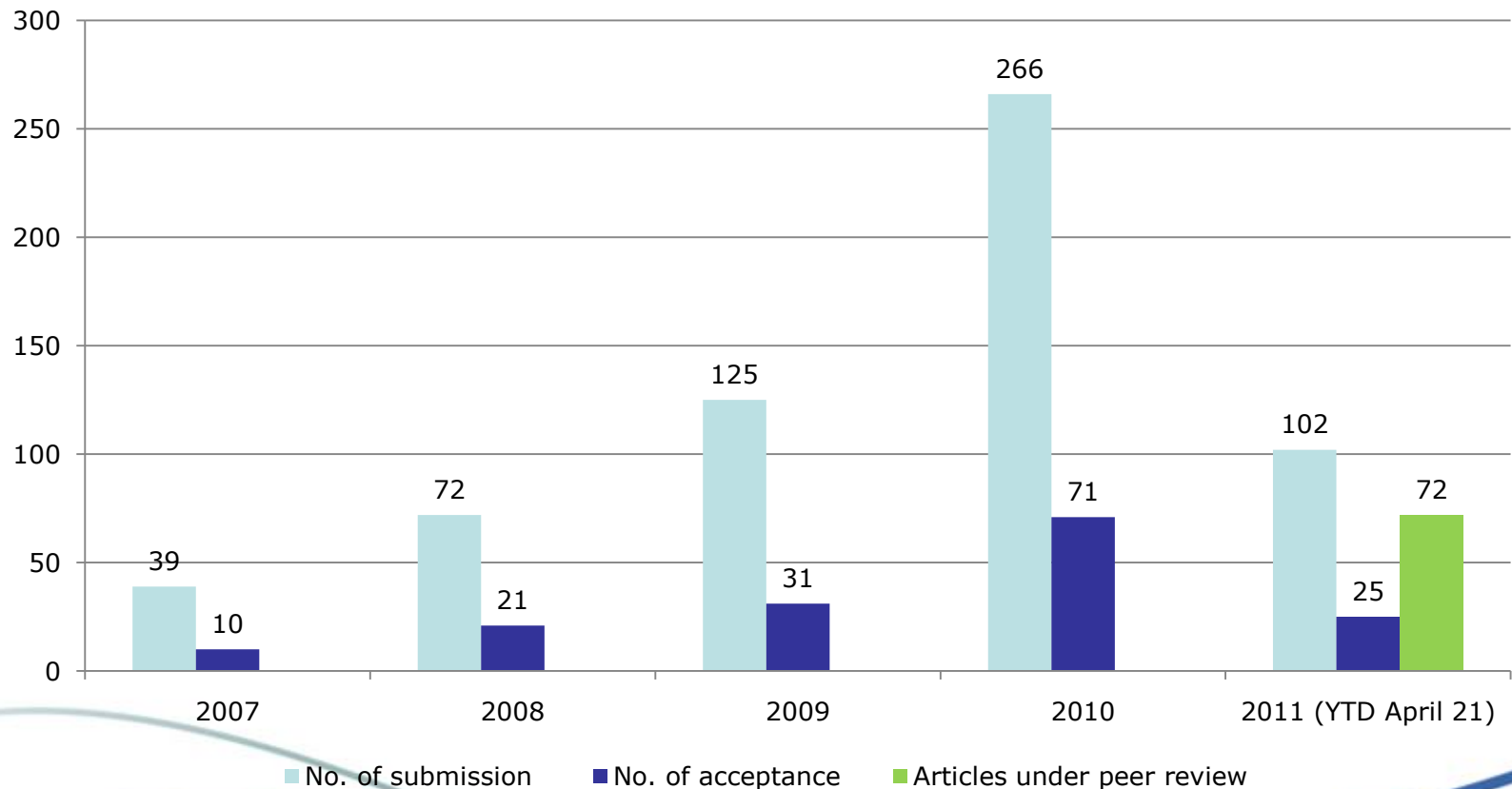
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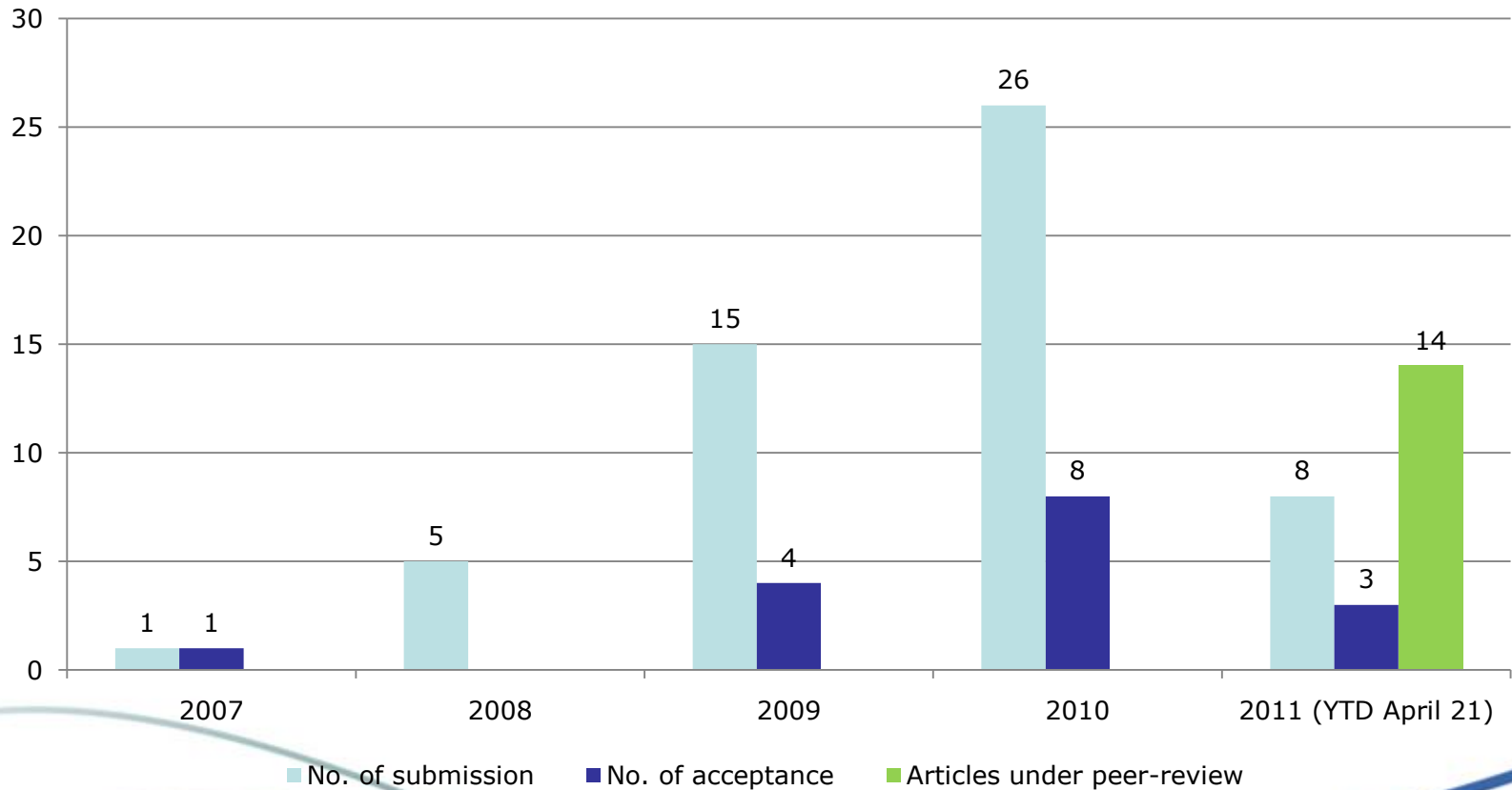
# Malaysia Submission and Acceptance 2007 - 2011



# Malaysia Journal Submission and Acceptance

	Impact Factor	No. of submission	No. of accepted	Articles under peer review
BMC Public Health	2.22	46	14	9
Journal of Biomedical Science	2.01	32	2	1
BMC Complementary and Alternative Medicine		31	12	6
BMC Microbiology	2.89	26	4	
BMC Cancer	2.74	25	4	2
Health and Quality of Life Outcomes	2.46	16	2	
BMC Infectious Diseases	2.55	16	2	3
Journal of Orthopaedic Surgery and Research		13	3	
Nutrition Journal		13	3	1
BMC Medical Education		13	2	1
Cancer Cell International		13	8	1

# UKM Submission & Acceptance 2007 - 2011





# UKM Journal Submission and Acceptance

	Impact Factor	No. of submission	No. of accepted	Articles under peer review
Journal of Biomedical Science	2.01	6		1
Cancer Cell International		3	3	
International Journal of Mental Health Systems		3	1	2
BioMedical Engineering OnLine		3	1	
Journal of Medical Case Reports		3	1	
BMC Genomics	3.76	3	2	1
BMC Complementary and Alternative Medicine		2	1	1
Nutrition Journal		2		1
Asia Pacific Family Medicine		2	1	1
BMC Bioinformatics	3.43	2	1	
Genome Biology	6.63	2		
Nutrition & Metabolism	2.62	2		1

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