

# Open Access and how it affects your citations

Johanna Kuhn  
BioMed Central Ltd

University of Pretoria  
14<sup>th</sup> June 2012

# Agenda

- About BioMed Central
- What is Open Access?
- Impact Factors
- Case study – Malaria Journal
- Open Access & Citations
- Open Access at University of Pretoria

# 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 237 open access journals
- Stringent peer review process in place for all journals
- >100,000 peer-reviewed OA articles published
- Costs covered by 'article processing charge' (APC)

# What is Open Access?

# Open Access Publishing

- Traditional journals
  - take ownership of the research
  - provide access to subscribers only
- Open access journals
  - have no subscription barriers
  - take advantage of the economics of the internet to allow universal access
  - research is openly licensed to allow reuse

# Characteristics of Open Access

- The publisher charges directly for the service of publication/ dissemination (APC's)
- Research immediately and permanently available via the Internet
- No barriers to access such as subscription costs
- Licensed so as to allow redistribution and reuse (Creative Commons)
- Archived in an internationally recognized repository (e.g. PubMed Central) - permanently archived in multiple locations to ensure long term access

# Benefits of Open Access

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

⇒ Restricting access does not make good use of digital distribution

# Routes towards Open Access

- **Gold OA**  
**Publishing in an open access journal**
  - Fully OA journals
  - Optional OA in traditional journals
- **Green OA**  
**Depositing articles in an OA repository**

## Subject repositories

- PubMed Central
- ArXiv

## Institutional repositories

- University of Pretoria  
Repository
- Médecins Sans Frontières



# Open Access today

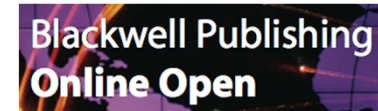
# Where is Open Access in 2012?

- There are over 6400 open access journals in the DOAJ
- Over 1000 open access journals are indexed by ISI
- Open access to research is now mandated in over 110 institutions and by 47 funders
- Submissions to OA journals grew by over 35% between 2010 and 2011

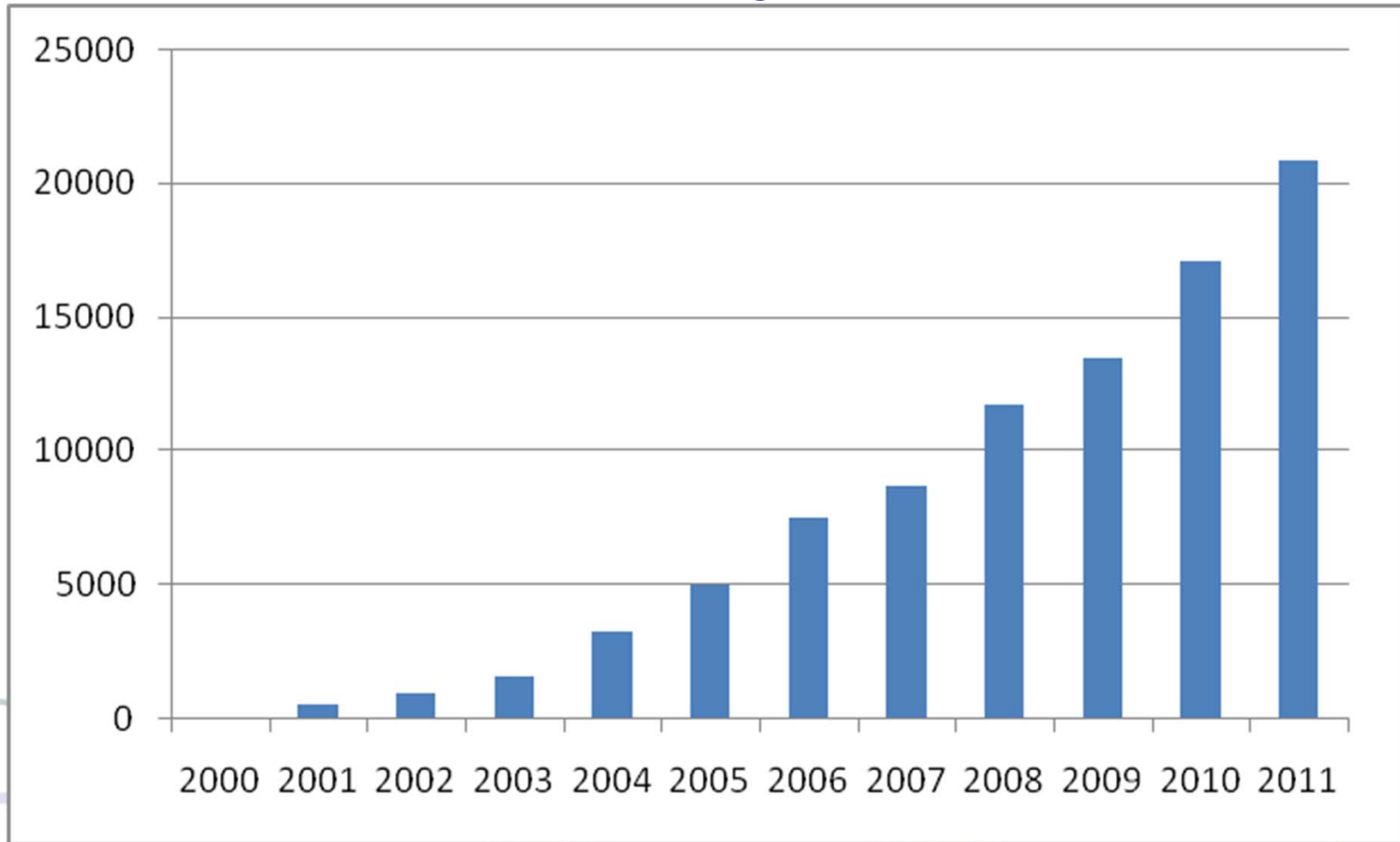
# Open Access Publishing, then and now...

2000

2012

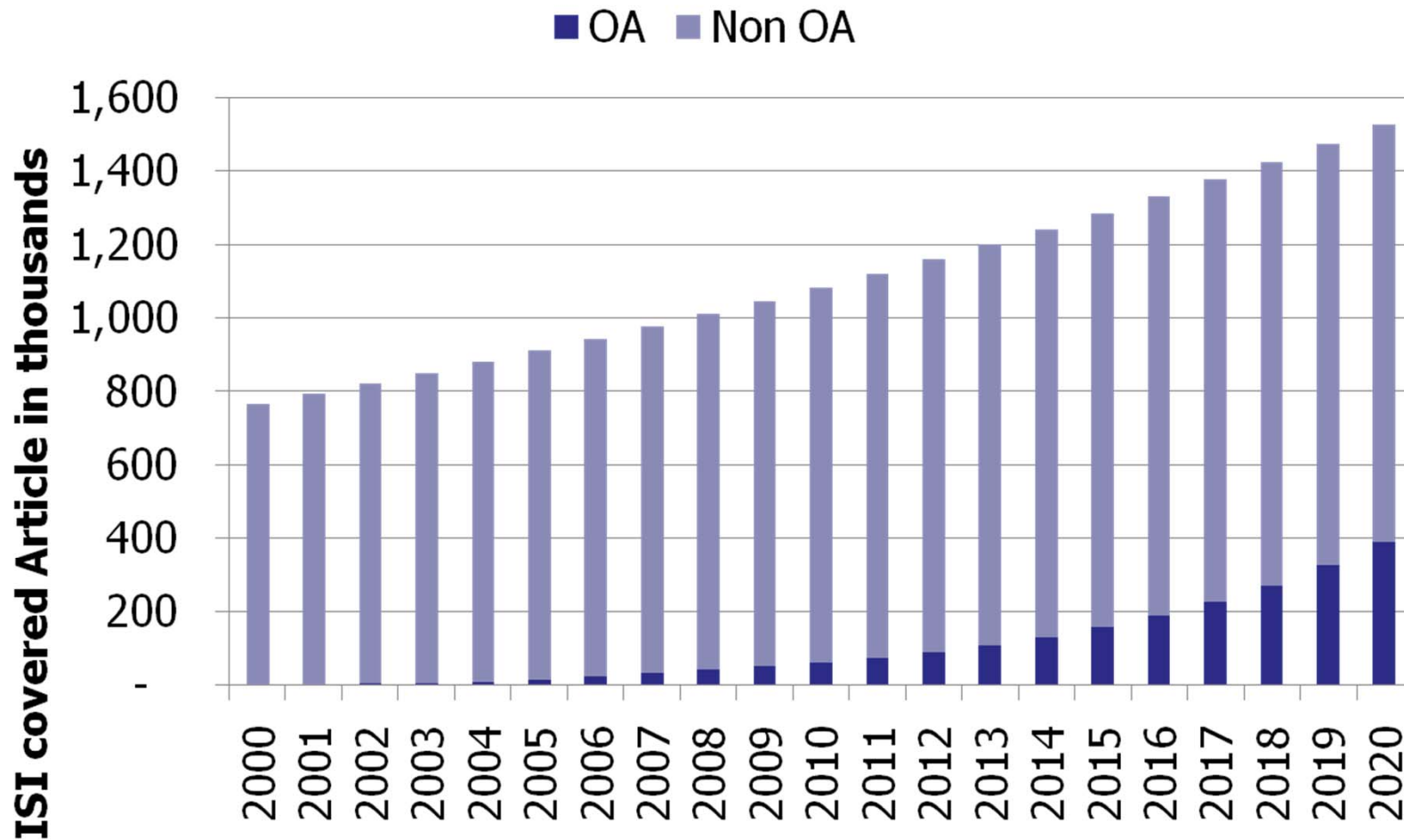


# Open Access articles published in BioMed Central journals

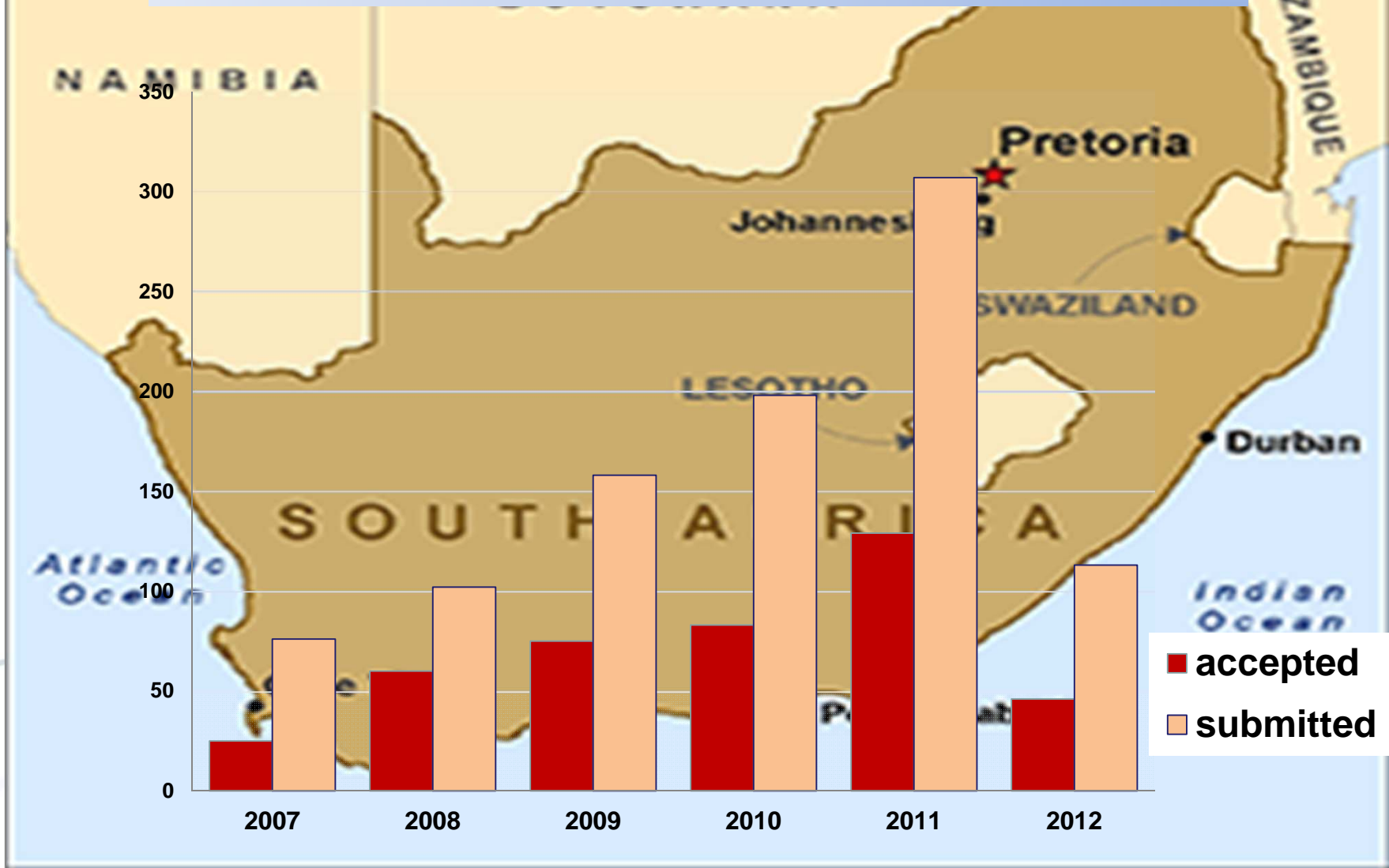


**BioMed Central**  
The Open Access Publisher

# Open access article share



# Submitted/Published Manuscripts from South Africa



# Top 10 journals for publications from Africa in last 12 months

Malaria Journal	80
BMC Public Health	42
BMC Infectious Diseases	31
BMC Research Notes	27
Cases Journal	25
Parasites & Vectors	22
Virology Journal	16
Journal of the International AIDS Society	16
Journal of Medical Case Reports	16
BMC Pediatrics	14

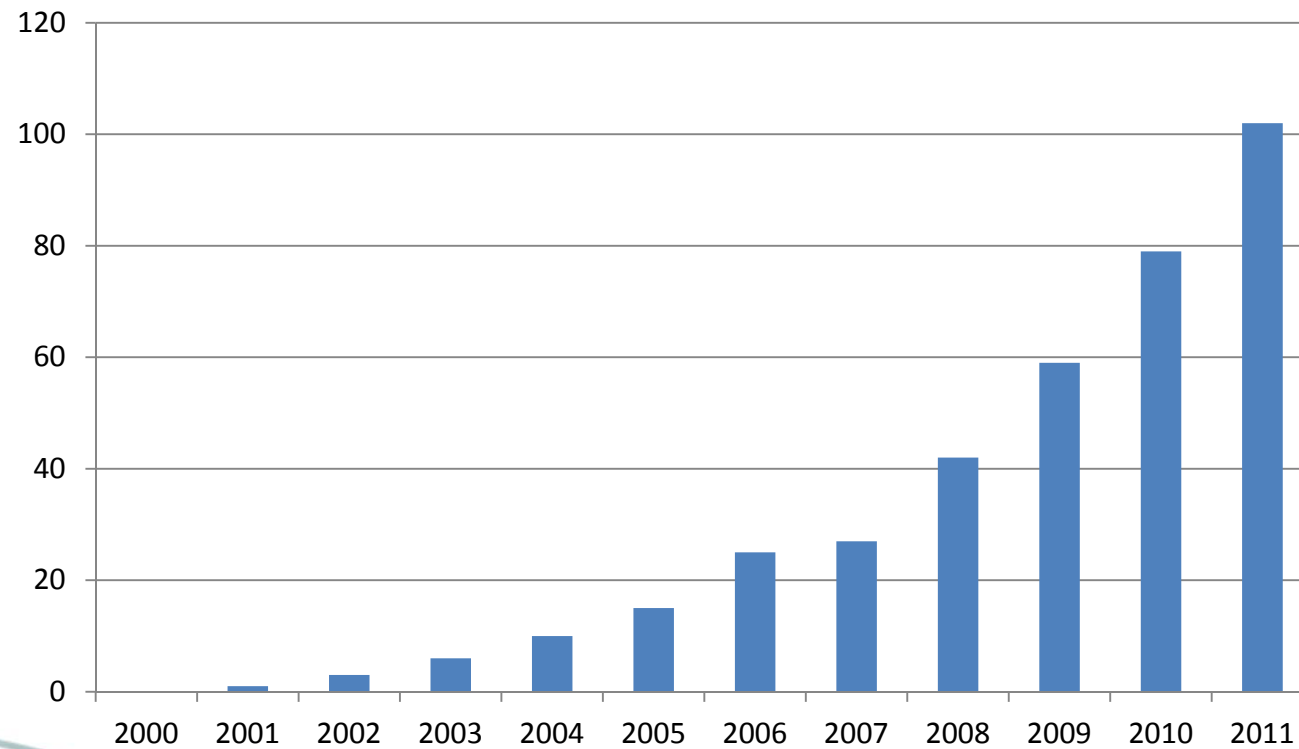
# Open Access and Impact Factors



# Impact factors

- Many limitations as a metric
- Some alternatives do now exist
- However impact factors remain hugely influential
- In many countries, financial reward and career advancement depends on publication in ISI tracked journals
- Good impact factors have helped many BioMed Central journals to grow

# BioMed Central journals with impact factors



# Journals that will receive an Impact Factor in 2012

BMC Endocrine Disorders

BMC Medical Ethics (1.93)

BMC Surgery (1.4)

Cell Communication and Signalling  
(4.03)

Globalization and Health (2.07)

Head & Neck Oncology

Journal of Cheminformatics (1.8)

Journal of Foot & Ankle Research

Pediatric Rheumatology (1.74)

BMC International Health and  
Human Rights

BMC Pregnancy & Childbirth (2.09)

Cancer Cell International (1.9)

Diabetology & Metabolic Syndrome  
(1.32)

Gut Pathogens

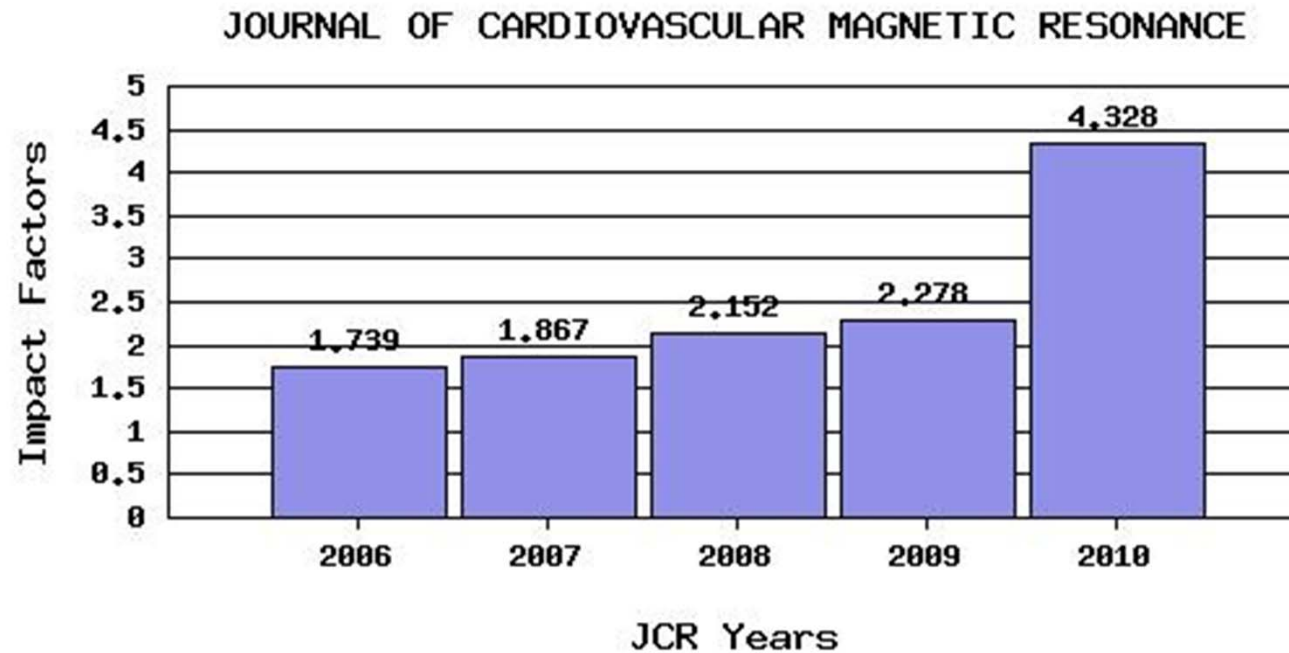
Italian Journal of Pediatrics

Journal of Ethnobiology and  
Ethnomedicine (1.28)

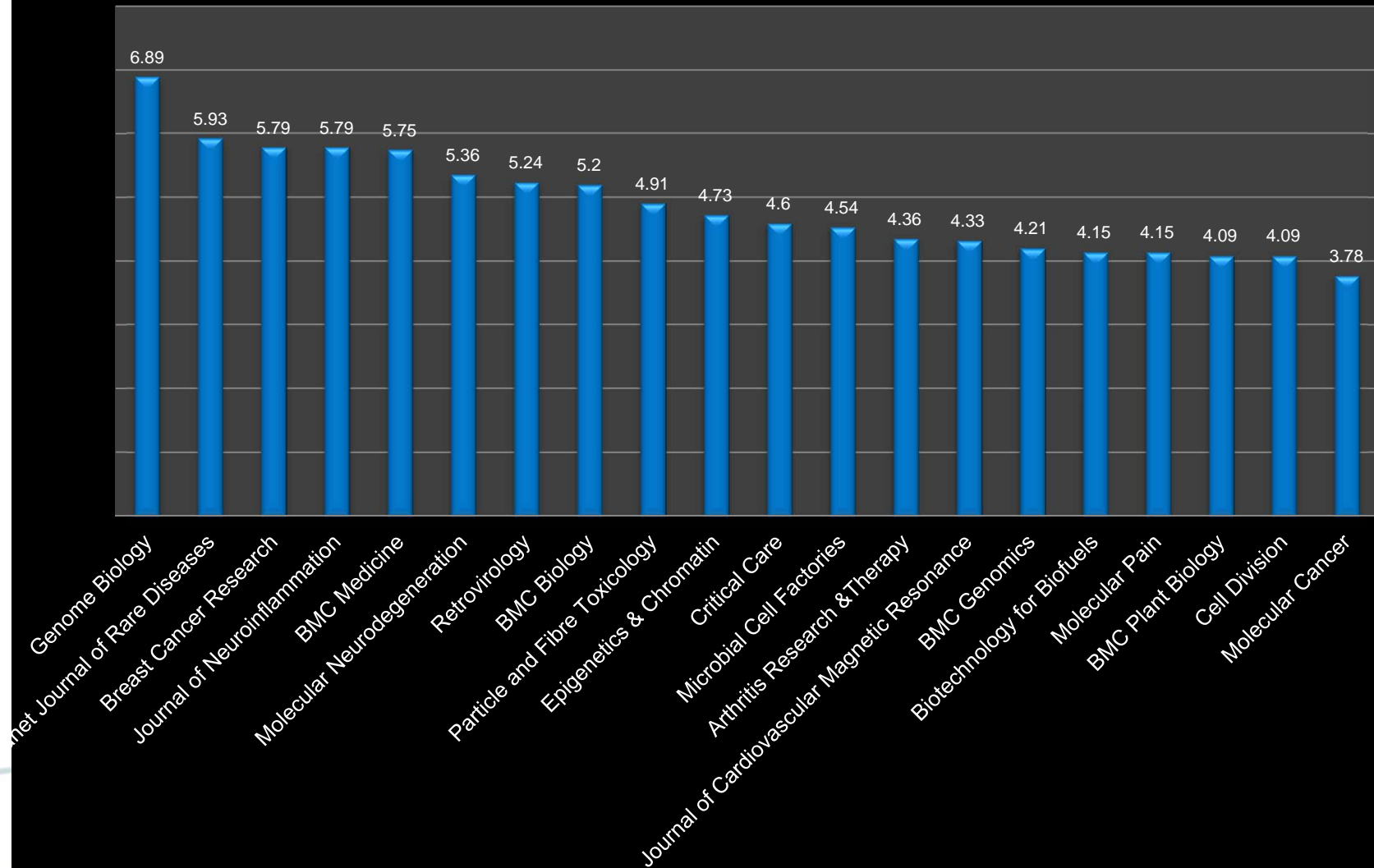
Journal of Ovarian Research (2.1)

Stem Cell Research & Therapy

# Impact factors can benefit when journals move to OA



## Top 20 Impact Factor journals



# Open Access and Visibility

*Malaria Journal* - an open access  
journal case study

Why not consider BioMed Central's Membership Program?



**BioMed Central**  
The Open Access Publisher

ADVERTISEMENT

Log on



Journals

Gateways



IMPACT  
FACTOR  
**3.49**

Search Malaria Journal

for

Go

[Advanced search](#)

[Home](#)

[Articles](#)

[Authors](#)

[Reviewers](#)

[About this journal](#)

[My Malaria Journal](#)

## Editor-in-Chief

Marcel Hommel, University of Liverpool

[Editorial Board](#) | [Instructions for authors](#) | [FAQ](#)

## Articles

Latest



Most viewed



Case report [Open Access](#)

### Post-treatment haemolysis in severe imported malaria after intravenous artesunate: case report of three patients with hyperparasitaemia

Rolling T, Schmiedel S, Wichmann D, Wittkopf D, Burchard GD and Cramer JP

*Malaria Journal* 2012, **11**:169 (17 May 2012)

An interesting case series on the observation of late onset haemolysis

## Towards malaria elimination

Edited by Marcel Tanner



Submit to the series >>

Submit a manuscript

Register

Sign up for article alerts

Follow us on  
[twitter](#)

## Aims & scope

*Malaria Journal* is aimed at the scientific community interested in malaria in its broadest sense. It is the only journal that publishes

Put up a



## Journal Citation Reports®

[WELCOME](#) [HELP](#)

2010 JCR Science Edition

## Journal Summary List

[Journal Title Changes](#)Journals from: **subject categories TROPICAL MEDICINE** [VIEW CATEGORY SUMMARY LIST](#)Sorted by:  [SORT AGAIN](#)

Journals 1 - 19 (of 19)

Page 1 of 1

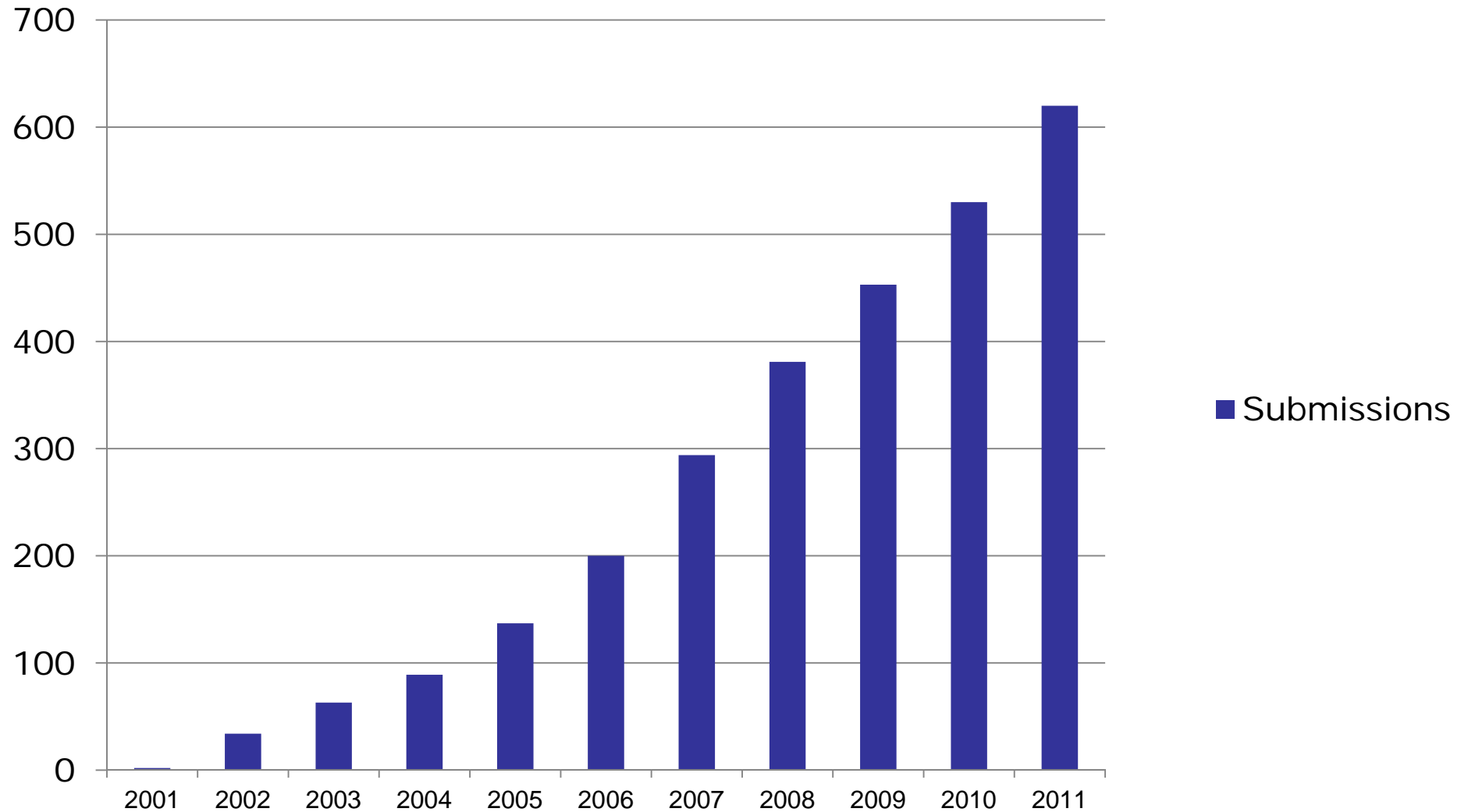
[MARK ALL](#) [UPDATE MARKED LIST](#)

Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	JCR Data <sup>i</sup>						Eigenfactor™ Metrics <sup>i</sup>	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor™ Score	Article Influence™ Score
<input type="checkbox"/>	1	<a href="#">PLOS NEGLECT TROP D</a>	1935-2727	2020	4.752	4.849	0.609	335	1.9	0.01140	1.580
<input type="checkbox"/>	2	<a href="#">MALARIA J</a>	1475-2875	4012	3.489	3.551	0.594	374	2.7	0.01855	0.999
<input type="checkbox"/>	3	<a href="#">TROP MED INT HEALTH</a>	1360-2276	5503	2.841	2.967	0.540	198	5.8	0.01791	0.995
<input type="checkbox"/>	4	<a href="#">T ROY SOC TROP MED H</a>	0035-9203	8015	2.832	2.615	0.367	147	>10.0	0.01495	0.811
<input type="checkbox"/>	5	<a href="#">AM J TROP MED HYG</a>	0002-9637	16905	2.446	2.884	0.502	430	9.1	0.03423	0.910
<input type="checkbox"/>	6	<a href="#">ACTA TROP</a>	0001-706X	4527	2.262	2.500	0.928	153	6.9	0.01011	0.706
<input type="checkbox"/>	7	<a href="#">MEM I OSWALDO CRUZ</a>	0074-0276	5385	2.058	2.081	0.087	183	7.9	0.01047	0.563
<input type="checkbox"/>	8	<a href="#">ANN TROP MED PARASIT</a>	0003-4983	2782	1.288	1.579	0.274	73	>10.0	0.00458	0.534
<input type="checkbox"/>	9	<a href="#">J TROP PEDIATRICS</a>	0142-6338	1416	1.248	1.286	0.284	81	7.9	0.00315	0.408
<input type="checkbox"/>	10	<a href="#">LEPROSY REV</a>	0305-7518	516	1.162	1.038	0.000	14	8.5	0.00090	0.248
<input type="checkbox"/>	11	<a href="#">ANN TROP PAEDIATR</a>	0272-4936	802	0.966	1.052	0.208	48	9.9	0.00156	0.347
<input type="checkbox"/>	12	<a href="#">REV INST MED TROP SP</a>	0036-4665	1499	0.934		0.111	63	>10.0	0.00193	
<input type="checkbox"/>	13	<a href="#">TROP BIOMED</a>	0127-5720	259	0.581		0.024	83	5.2	0.00068	
<input type="checkbox"/>	14	<a href="#">REV SOC BRAS MED TRO</a>	0037-8682	1540	0.580	0.847	0.048	168	7.4	0.00277	0.197
<input type="checkbox"/>	15	<a href="#">TROP DOCT</a>	0049-4755	635	0.521	0.518	0.141	85	6.6	0.00176	0.169
<input type="checkbox"/>	16	<a href="#">BIOMEDICA</a>	0120-4157	383	0.442		0.167	60	4.7	0.00092	
<input type="checkbox"/>	17	<a href="#">J VENOM ANIM TOXINS</a>	1678-9199	244	0.302	0.481	0.148	61	5.2	0.00042	0.076
<input type="checkbox"/>	18	<a href="#">ASIAN PAC J TROP MED</a>	1995-7645	42	0.172	0.172	0.061	278		0.00003	0.011
<input type="checkbox"/>	19	<a href="#">KASNERA</a>	0075-5222	20	0.034					0.00000	

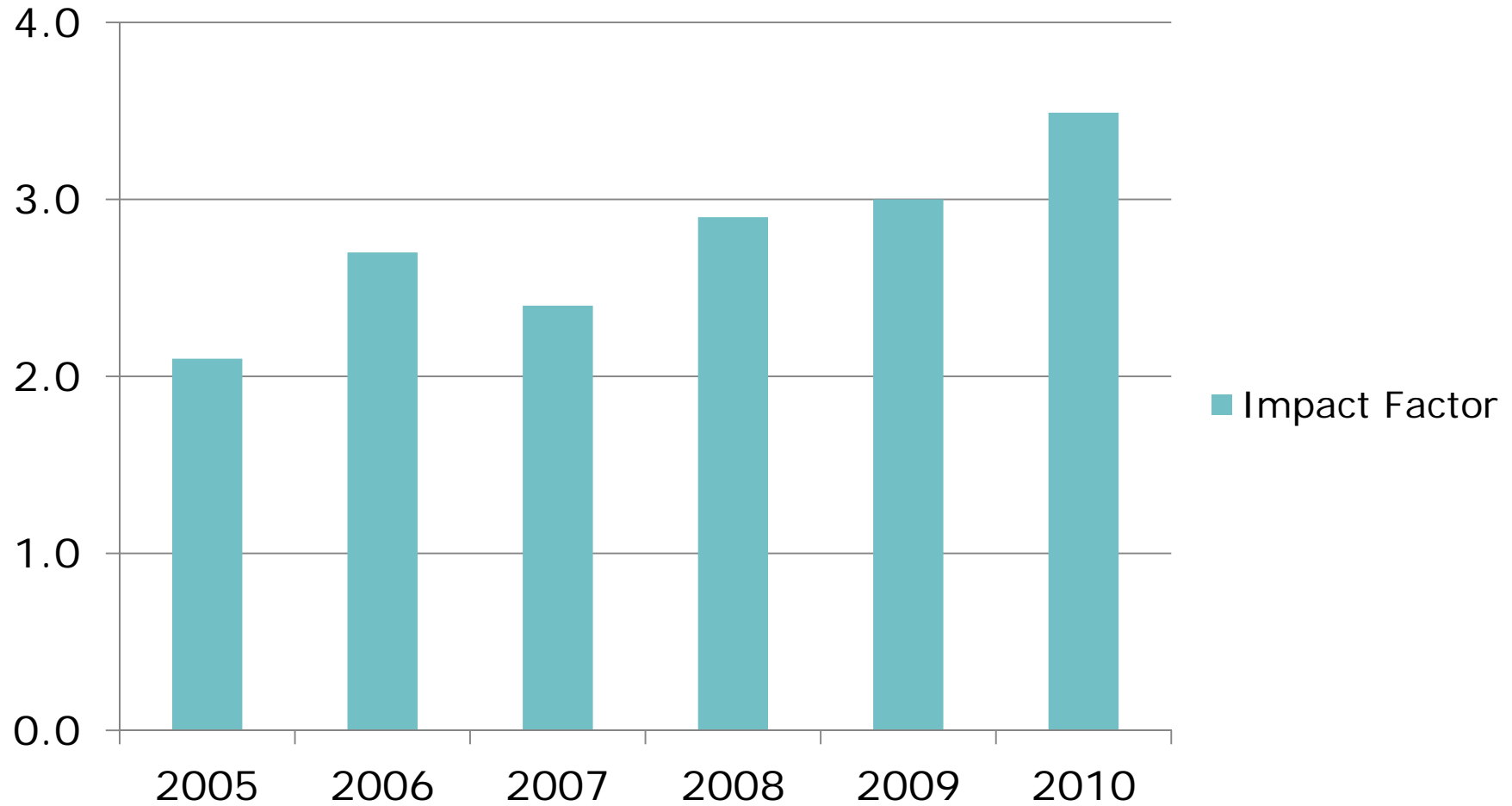


# Annual growth in submissions to *Malaria Journal*



# Impact Factor Trend

*Malaria Journal*



# A highly accessed *Malaria Journal* article

Firefox | Malaria Journal | Full text | Malaria and urba... | www.malariajournal.com/content/4/1/12

MALARIA JOURNAL IMPACT FACTOR 3.49

Search this journal for [ ] Go

Advanced Search

Home Articles Authors Reviewers About this journal My Malaria Journal

Top  
Abstract  
Introduction  
Discussion  
Conclusions  
Authors' contributions  
Acknowledgements  
References

**Commentary** Highly accessed Open access

**Malaria and urbanization in sub-Saharan Africa**

Martin J Donnelly<sup>1\*</sup>, PJ McCall<sup>1</sup>, Christian Lengeler<sup>2</sup>, Imelda Bates<sup>1</sup>, Umberto D'Alessandro<sup>3</sup>, Guy Barnish<sup>1</sup>, Flemming Konradsen<sup>4,5</sup>, Eveline Klinkenberg<sup>6,1</sup>, Harold Townson<sup>1</sup>, Jean-Francois Trape<sup>7</sup>, Ian M Hastings<sup>1</sup> and Clifford Mutero<sup>8</sup>

\* Corresponding author: Martin J Donnelly [m.i.donnelly@liv.ac.uk](mailto:m.i.donnelly@liv.ac.uk)

▼ Author Affiliations

1 Liverpool School of Tropical Medicine, Pembroke Place, Liverpool, L3 5QA, UK  
2 Swiss Tropical Institute, P.O. Box, 4002 Basel, Switzerland  
3 Prince Leopold Institute of Tropical Medicine, Nationalestraat 155, B-2000 Antwerp, Belgium  
4 International Water Management Institute Sri Lanka127, Sunil Mawatha, Pelawatte, Battaramulla, Sri Lanka  
5 Institute of Public Health, Department of International Health, University of Copenhagen, Blegdamsvej 32200 København, Denmark  
6 International Water Management Institute (West Africa), PMB CT 112, Cantonments, Accra, Ghana  
7 Institut de Recherche pour le Développement, BP 1386, CP 18524, Dakar, Sénégal  
8 Systemwide Initiative on Malaria and Agriculture, International Water Management Institute, Private Bag X813, Silverton 0127, South Africa  
For all author emails, please [log on](#).

*Malaria Journal* 2005, 4:12 doi:10.1186/1475-2875-4-12

The electronic version of this article is the complete one and can be found online at: <http://www.malariajournal.com/content/4/1/12>

Received: 2 February 2005  
Accepted: 18 February 2005  
Published: 18 February 2005

© 2005 Donnelly et al; licensee BioMed Central Ltd.  
This is an Open Access article distributed under the terms of the Creative Commons Attribution License (<http://creativecommons.org/licenses/by/2.0>), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Abstract

Malaria Journal Volume 4

Viewing options  
Abstract  
Full text  
PDF (307KB)  
Additional files

Associated material  
PubMed record  
About this article  
Readers' comments

Related literature  
Articles citing this article  
Other articles by authors  
► on Google Scholar  
► on PubMed  
Related articles/pages on Google  
on Google Scholar  
on PubMed

Tools  
Download references  
Download XML  
Email to a friend  
Order reprints  
Post a comment  
[+ Share this article](#)

15,000+  
downloads  
31 citations

# Open Access & Citations

# Citation count

- Alma Swan compares 31 different studies on citations in Open Access
- 27 out of 31 studies suggest that the number of citations will increase depending on the discipline, if made Open Access

(Swan, A. (2010) The Open Access citation advantage: Studies and results to date. Technical Report , School of Electronics & Computer Science, University of Southampton.)

# Increased citation

Discipline	% higher citation count
Medicine	300 - 450
Agricultural Sciences	200 - 600
Physics / Astronomy	170 - 580
Communication Sciences	200
Mathematics	35 - 91

(Swan, A. (2010) The Open Access citation advantage: Studies and results to date. Technical Report , School of Electronics & Computer Science, University of Southampton.)

Top

Abstract

Background

Conclusion an...

Competing interests

Authors'  
contributions

Acknowledgements

References

Review

Highly accessed

Open access

## Heterologous expression of plasmodial proteins for structural studies and functional annotation

Lyn-Marie Birkholtz<sup>1</sup>, Gregory Blatch<sup>2</sup>, Theresa L Coetzer<sup>3</sup>, Heinrich C Hoppe<sup>1,4</sup>, Esmaré Human<sup>1</sup>, Elizabeth J Morris<sup>1,5</sup>, Zoleka Ngcete<sup>1</sup>, Lyndon Oldfield<sup>4</sup>, Robyn Roth<sup>4</sup>, Addmore Shonhai<sup>6</sup>, Linda Stephens<sup>2</sup> and Abraham I Louw<sup>1\*</sup>

\* Corresponding author: Abraham I Louw [braam.louw@up.ac.za](mailto:braam.louw@up.ac.za)

▼ Author Affiliations

1 Department of Biochemistry, University of Pretoria, Pretoria, South Africa

2 Department of Biochemistry, Microbiology & Biotechnology, Rhodes University, Grahamstown, South Africa

3 Department of Molecular Medicine and Haematology, University of the Witwatersrand/National Health Laboratory Service (NHLS), Johannesburg, South Africa

4 Council for Scientific and Industrial Research, CSIR Biosciences, Pretoria, South Africa

5 African Centre for Gene Technologies (Joint initiative of the CSIR, the University of Pretoria and the University of the Witwatersrand), Pretoria, South Africa

6 Department of Biochemistry and Microbiology, Zululand University, Kwadlangezwa, South Africa

For all author emails, please [log on](#).

*Malaria Journal* 2008, **7**:197 doi:10.1186/1475-2875-7-197

The electronic version of this article is the complete one and can be found online at:

<http://www.malariajournal.com/content/7/1/197>

Received: 19 June 2008

[Malaria Journal](#)

=> Has been  
accessed over  
7100 times

=> Has been  
cited 18 times

Associated material

[PubMed record](#)[About this article](#)[Readers' comments](#)

Related literature

[Cited by](#)[on Google blog search](#)[Other articles by authors](#)[▶ on Google Scholar](#)[▶ on PubMed](#)[Related articles/pages](#)[on Google](#)[on Google Scholar](#)[on PubMed](#)

Tools

[Download references](#)[Download XML](#)





Top

Abstract

Background

Results

Discussion

Conclusions

Methods

Authors' contributions

Acknowledgements

References

Research article

Highly accessed

Open access

## De novo assembled expressed gene catalog of a fast-growing *Eucalyptus* tree produced by Illumina mRNA-Seq

Eshchar Mizrahi<sup>1†</sup>, Charles A Hefer<sup>2†</sup>, Martin Ranik<sup>1</sup>, Fourie Joubert<sup>2</sup> and Alexander A Myburg<sup>1\*</sup>

\* Corresponding author: Alexander A Myburg [zander.myburg@fab.up.ac.za](mailto:zander.myburg@fab.up.ac.za)

† Equal contributors

Author Affiliations

1 Department of Genetics, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria, 0002, South Africa

2 Bioinformatics and Computational Biology Unit, Department of Biochemistry, University of Pretoria, Pretoria, 0002, South Africa

Email: Eshchar Mizrahi [eshchar.mizrachi@up.ac.za](mailto:eshchar.mizrachi@up.ac.za) - Charles A Hefer [charles.hefer@up.ac.za](mailto:charles.hefer@up.ac.za) - Martin Ranik [martin.ranik@fab.up.ac.za](mailto:martin.ranik@fab.up.ac.za) - Fourie Joubert [fourie.joubert@up.ac.za](mailto:fourie.joubert@up.ac.za) - Alexander A Myburg [zander.myburg@fab.up.ac.za](mailto:zander.myburg@fab.up.ac.za)

BMC Genomics 2010, 11:681 doi:10.1186/1471-2164-11-681

⇒ Has been accessed over 5700 times  
⇒ Has been cited 16 times

Abstract

Full text

PDF (963KB)

Additional files

Associated material

PubMed record

About this article

Readers' comments

Related literature

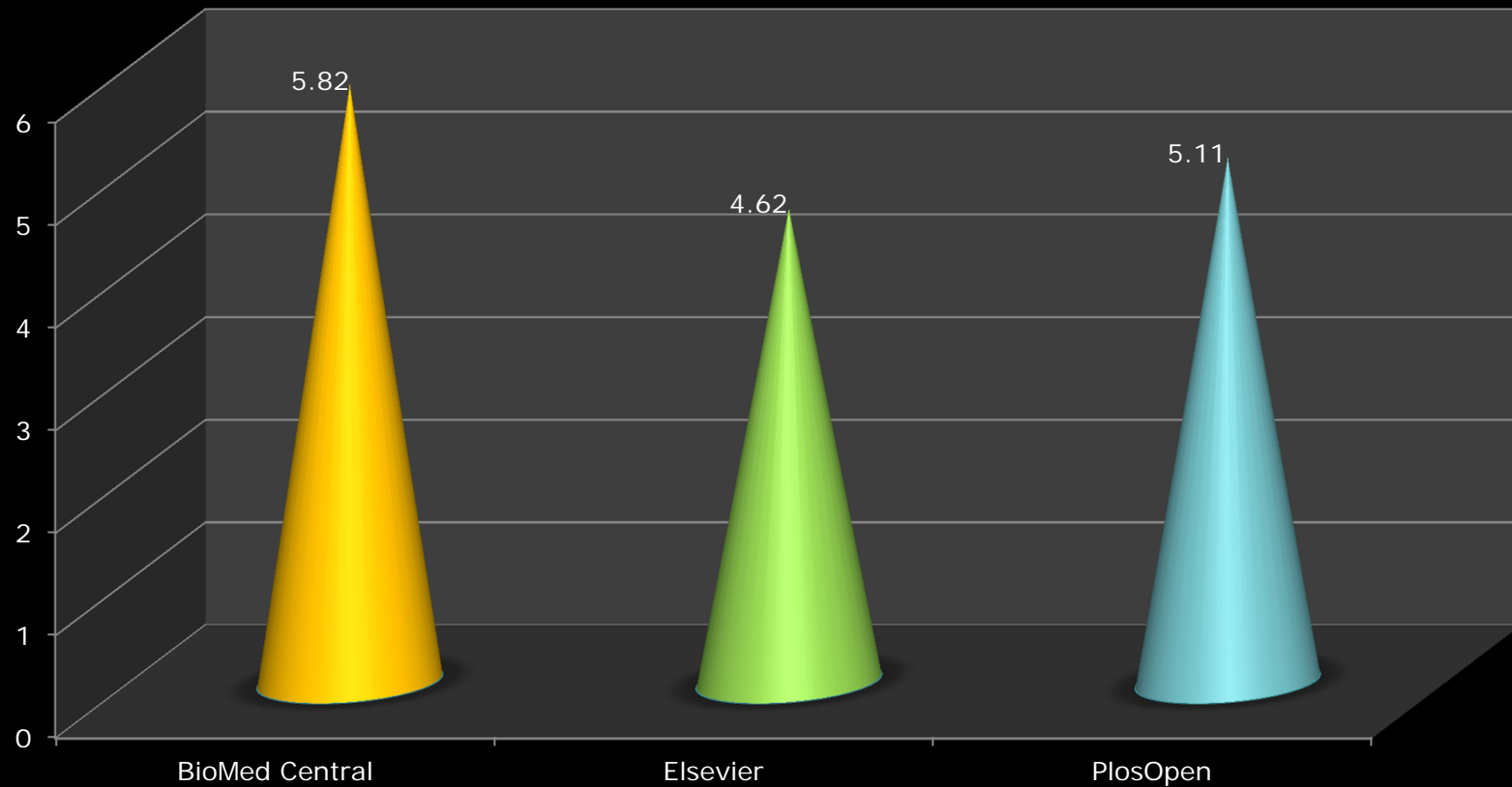
Cited by

on Google blog search

Other articles by authors



# Average number of citations per article - University of Pretoria



# Open Access at the University of Pretoria – “building the road by walking it”

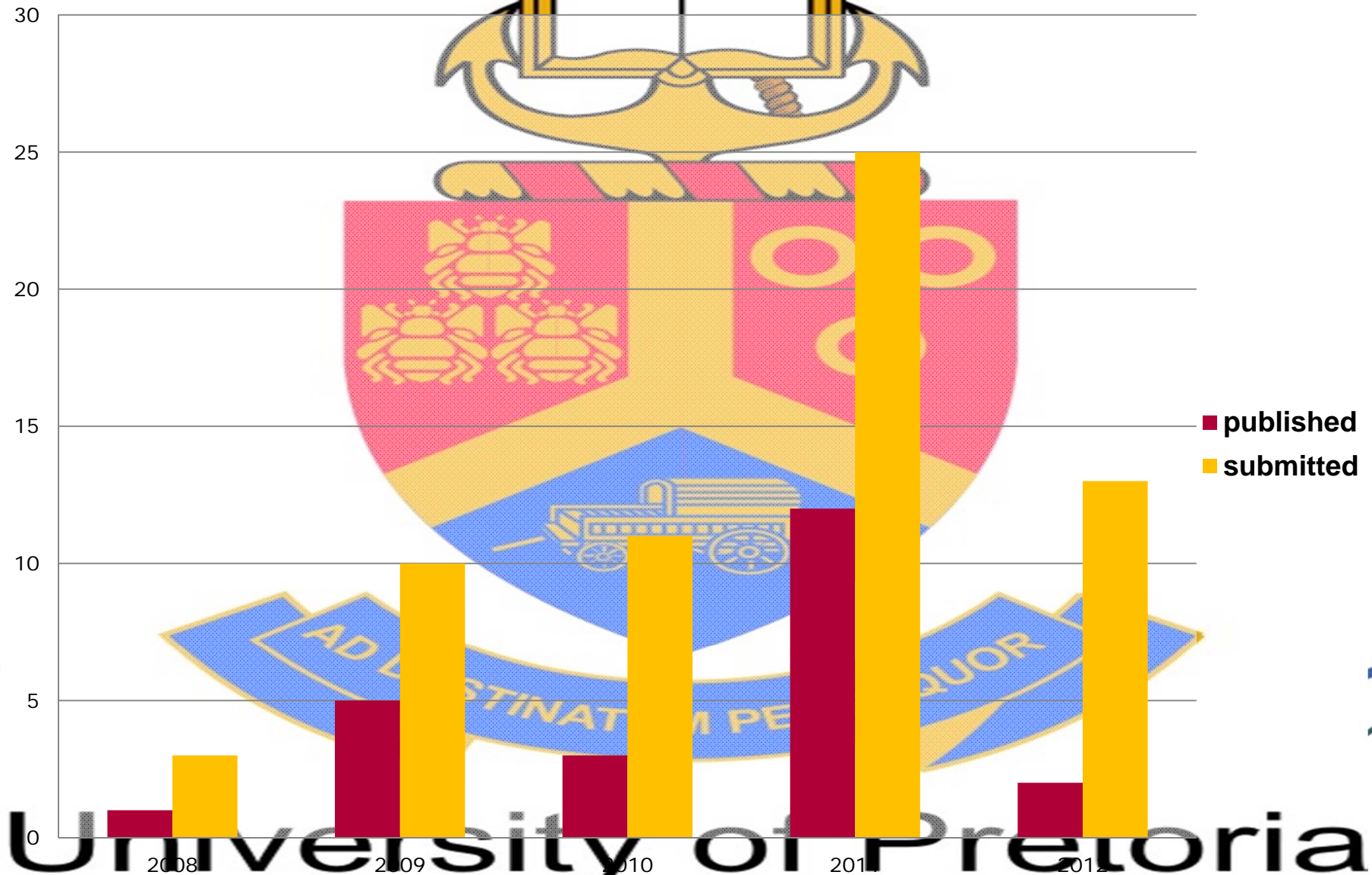
# University of Pretoria Open Access Mandate

- Mandatory policy since 2009
- University of Pretoria supports free open access to the research literature for all researchers **and takes responsibility** for dissemination of its own research outputs
- Staff & students required to
  - submit peer-reviewed post prints of their articles and conference papers to UPSpace
  - give the University permission to make the content freely available and to take necessary steps to preserve files in perpetuity

## UPeTD – Electronic Theses and Dissertations

- UPeTD's rating in the international Webometrics ranking of institutional repositories is **no. 60** worldwide in terms of content, size and visibility - the first in Africa.
- One of 2 South African university repositories listed on Roarmap
- 2080 full text doctoral theses and 5138 research master's dissertations

# Publications & Submissions from UP researchers



University of Pretoria

# BMC Membership

- The university has entered into an agreement with BMC to cover the article costs
- Various levels of support...
- University of Pretoria has chosen the highest level of Support that a University can offer to their researchers!

# Prepay Membership

- University covers the article cost (APC) for their researchers
- Journals that have an Impact Factor can be used
- BioMed Central, Chemistry Central and Springer Open journals





ADVERTISEMENT

Welcome Springer | Log on



Search BioMed Central [Go]

- Home
- Journals
- Articles
- Gateways
- About BioMed Central
- My BioMed Central

Advanced search

### Welcome Springer

BioMed Central publishes 236 peer-reviewed open access journals.

Your institution also has access to [additional products](#).

- Recommend BioMed Central Membership
- Benefits of publishing
- BioMed Central journals by subject
- Submit a manuscript

## Articles

Editor's picks [RSS] Latest Most viewed Most forwarded



### Novel screen for transcriptional gene silencing

A luciferase-based reporter system, LUCH, is used to screen for bidirectional mutants that enhance or suppress transcriptional gene silencing, elucidating the mechanisms of DNA methylation and demethylation.

**Towards a new psychiatry**

Edited by James Giordano

A new cross-journal collection

### Email updates

Receive periodic news and updates relating to BioMed Central.

email address

Sign up

Register

Submit a manuscript

Sign up for article

### From the blog [RSS]

06 June 2012

[Fibrogenesis & Tissue Repair publishes its](#)





stem cell  
research & therapy

Editors-in-Chief

Rocky S Tuan (University of Pittsburgh School of Medicine)

Timothy O'Brien (National University of Ireland, Galway)

Welcome Springer | Log on



ChemistryCentral  
open access to chemistry

Search Chemistry Central

Go

Advanced search

Home

Journals

Articles

About Chemistry Central

My Chemistry Central

Welcome Springer

Chemistry Central publishes high-quality peer-reviewed open access research in chemistry.

Recommend Chemistry Central  
Membership

Benefits of publishing

Chemistry Central journals

Submit a manuscript

Email updates

Receive periodic news and updates relating to Chemistry Central.

email address

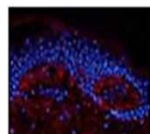
Sign up

Articles

Editor's picks

Latest

Most viewed



Consequences of cutaneous photoageing

UV radiation exacerbates the intrinsic ageing of human skin, accelerating the onset of age-related changes, such as wrinkle formation. This review discusses experimental

Our journals

Register

Submit a  
manuscript

## Welcome Springer

SpringerOpen gives you the opportunity to publish open access in Science, Technology and Medicine. It makes it easier than ever for you to comply with open access mandates, retain copyright and benefit from Springer's trusted brand.

- [Recommend SpringerOpen Membership](#)
- [SpringerOpen journals](#)
- [Submit a manuscript](#)
- [Benefits of publishing](#)



## Libraries

Find out more about our Membership Program and other library services.

[Learn more](#)

## SpringerOpen journals

### Latest journals open for submission

- [Complex Adaptive Systems Modeling](#)
- [Journal of Computational Surgery](#)

[All journals](#)

## Twitter updates



RT @Springernomics: #Springer Editor & #Author Thomas Hult being interviewed at #EMAC2012 about tips to journal authors <http://t.co/ljqOqvaE>  
03:04 PM yesterday

## Submit a manuscript

Go directly to the fast and easy submission system.

[Submit](#)

## Articles

## Email updates

Find out more about

# Benefits of Prepay Membership for researchers at University of Pretoria

- Easier submission process – automatic IP address recognition
- Higher visibility of your articles (PR of Membership, Members page) result in higher citations

=> the University covers the cost for your publications!



## Member - University of Pretoria

The University of Pretoria (UP) is one of the leading research universities in South Africa offering more than 1800 academic programmes in two of the official languages, namely Afrikaans and English.  
<http://web.up.ac.za/>

### Research staff and students at the University of Pretoria:

Do you realize your organization has set up a Prepay Membership with BioMed Central, which allows you to publish in BioMed Central, Chemistry Central and SpringerOpen journals published on the ISI Web of Science (Science Citation Index Expanded, Social Sciences Citation Index, Arts & Humanities Citation Index) or the IBSS (International Bibliography of the Social Sciences) list without any charge. Payment of your article-processing charges is covered by the University of Pretoria's Prepay Membership. Read [more information](#) about publishing your articles with us. Please note that should you be submitting to a journal not on either of the ISI or IBSS lists you will not be supported by the University of Pretoria's Prepay Membership arrangement and will have to cover the article processing charges independently.

## Work published with BioMed Central, Chemistry Central and SpringerOpen by researchers at University of Pretoria

Latest  Most viewed

Page 1 of 5

1 2 3 4 5 ▶ Next

▶ Display/download options

Articles per page: 25 | 50 | 100

- Research article**   
**In vitro activity of tigecycline against clinical isolates of carbapenem resistant *Acinetobacter baumannii* complex in Pretoria, South Africa**  
Nahid H Ahmed, Kamaldeen Baba, Cornelis Clay, Ruth Lekalakala, Anwar A Hoosen  
*BMC Research Notes* 2012, **5**:215 (3 May 2012)  
[Abstract](#) | [Provisional PDF](#) | [PubMed](#)
- Research**   
**The synergistic action of imidacloprid and flumethrin and their release kinetics from collars applied for ectoparasite control in dogs and cats**  
Dorothee Stanneck, Ulrich Ebbinghaus-Kintscher, Eva Schoenhense, Eva M Kruedewagen, Andreas Turberg, Andrew Leisewitz, Wolfgang Jiritschka, Klemens J Krieger  
*Parasites & Vectors* 2012, **5**:73 (12 April 2012)  
[Abstract](#) | [Provisional PDF](#) | [PubMed](#) | [▶ Editor's summary](#)
- Letter to the Editor**    
**Vector-Borne Diseases - constant challenge for practicing veterinarians: recommendations from the CVBD**

### Institution search

Search by institution name/city

- Australia (18)
- Austria (6)
- Belgium (1)
- Brazil (2)
- Canada (26)
- China (4)
- Cyprus (3)
- Czech Republic (1)
- Finland (6)
- France (3)
- Germany (47)
  
- Ghana (1)
- Greece (1)
- Hong Kong (3)
- Hungary (1)
- India (7)
- Ireland (1)
- Israel (1)
- Italy (13)
- Japan (1)
- Korea, South (1)

# Thank you

[johanna.kuhn@biomedcentral.com](mailto:johanna.kuhn@biomedcentral.com)