

# ‘BioMed Central: Impact factor and Open Access publishing’



19th May 2014 – University of Bern  
BioMed Central/SpringerOpen

The old world of information...





# The new world of information!



# Agenda

- Open access at Springer
- Impact Factors and open access
- Open access in Switzerland

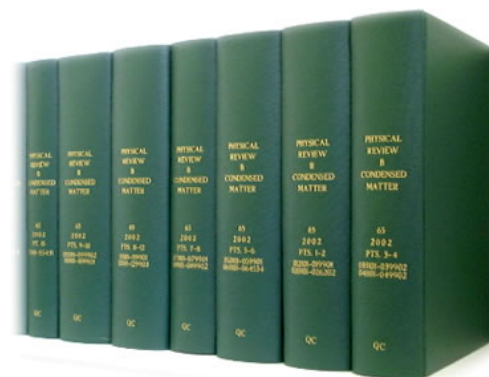
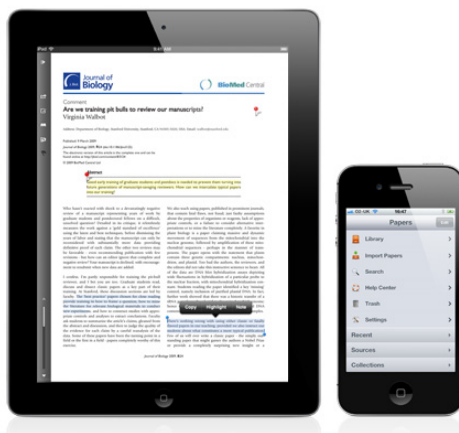
# Open access publishing

## Different business model.....

- no subscription barriers
- universal access
- research is openly licensed to allow reuse

## Same quality and standards

- Editors in chief
- Editorial boards
- Peer review
- Indexing
- Impact Factors



# The Changing Landscape of OA Publishing

2000

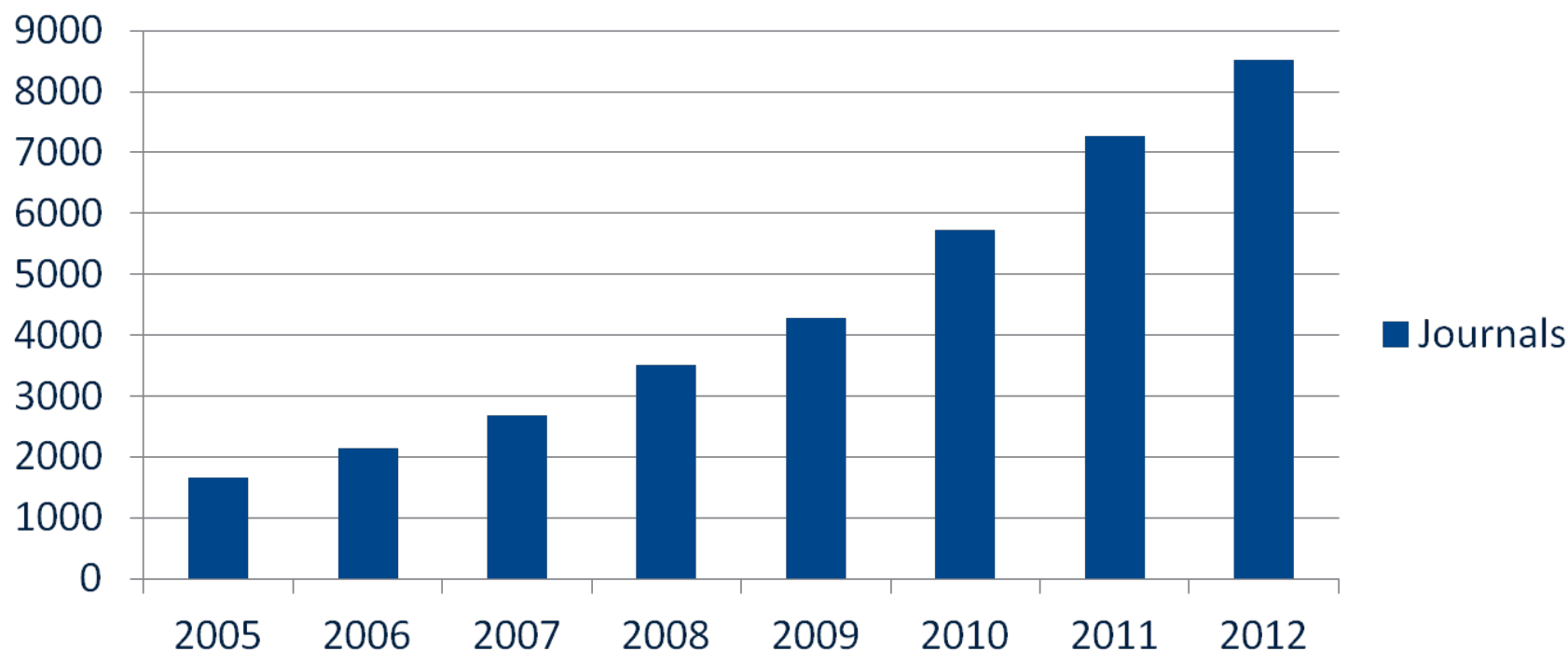


2013

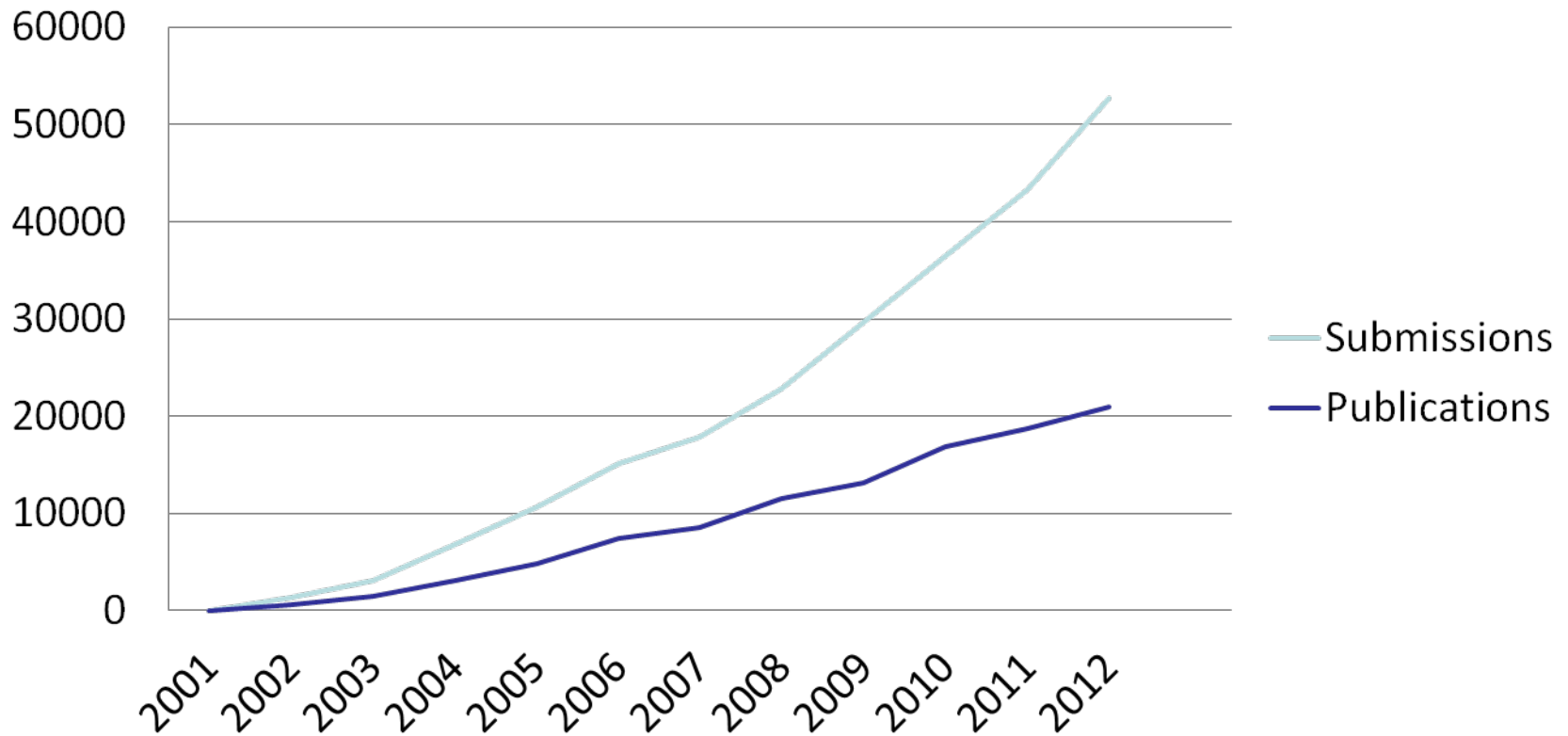


# Overall open access market growth: fully open access journals

**Directory of Open Access Journals 2005 to 2012**



# Growth in Submissions and Publications





► Display/download options

Articles per page: 25 | 50 | 100

- 20322  
Accesses

**1. Research** Open Access Highly accessed

[Validation of the Chinese version of the Reynolds' suicidal ideation questionnaire: psychometric properties and its short version](#)

Yi Zhang, Paul Siu Yip, King-wa Fu

*Health and Quality of Life Outcomes* 2014, **12**:33 (10 March 2014)

[Abstract](#) | [Full text](#) | [PDF](#) | [PubMed](#)
- 19592  
Accesses

**2. Review** Open Access Highly accessed

[Metabolic effects of low glycaemic index diets](#)

Gabriela Radulian, Emilia Rusu, Andreea Dragomir, Mihaela Posea

*Nutrition Journal* 2009, **8**:5 (29 January 2009)

[Abstract](#) | [Full text](#) | [PDF](#) | [PubMed](#) | [Cited on BioMed Central](#)
- 16897  
Accesses

**3. Short report** Open Access Highly accessed

[Multicolor banding remains an important adjunct to array CGH and conventional karyotyping](#)

Susan M Bint, Angela F Davies, Caroline Ogilvie

*Molecular Cytogenetics* 2013, **6**:55 (5 December 2013)

[Abstract](#) | [Full text](#) | [PDF](#) | [PubMed](#) | [► Editor's summary](#)
- 12924  
Accesses

**4. Research article** Open Access Highly accessed

[Peering through the mist: systematic review of what the chemistry of contaminants in electronic cigarettes tells us about health risks](#)

Igor Burstyn

*BMC Public Health* 2014, **14**:18 (9 January 2014)

[Abstract](#) | [Full text](#) | [PDF](#) | [PubMed](#) | [► Editor's summary](#)
- 12677  
Accesses

**5. Review** Open Access Highly accessed

[Nutrient timing revisited: is there a post-exercise anabolic window?](#)

Alan Albert Aragon, Brad Jon Schoenfeld

*Journal of the International Society of Sports Nutrition* 2013, **10**:5 (29 January 2013)

[Abstract](#) | [Full text](#) | [PDF](#) | [PubMed](#) | [Cited on BioMed Central](#) | [► Editor's summary](#)
- 10199  
Accesses

**6. Research** Open Access Highly accessed

[Physical activity, aerobic fitness and parental socio-economic position among adolescents: the German Health Interview and Examination Survey for Children and Adolescents 2003–2006 \(KiGGS\)](#)

Jonas D Finger, Gert B M Mensink, Winfried Banzer, Thomas Lampert, Thorkild Tylleskär

*International Journal of Behavioral Nutrition and Physical Activity* 2014, **11**:43 (22 March 2014)

[Abstract](#) | [Full text](#) | [PDF](#) | [ePUB](#) | [PubMed](#)
- 9975  
Accesses

**7. Research** Open Access Highly accessed

[The "hidden" epidemic: a snapshot of Moroccan intravenous drug users](#)

Roxana-Delia Trimbilas, Fatima Serghini, Fatima Lazaar, Warda Baha, Abderrahim Fouljous, Mohammed Essalhi,

# Editors/journal owners...

- More and more journals transfer to OA publication
- Wider dissemination and more international reach
- Increase in number and quality of submissions
- Improvement of bibliometric performance / impact factor
- Increasing demand from authors within mandating institutions/funding bodies
- APCs can be lower than colour or page charges in subscription journals

## Editor's quote

*“Acta Veterinaria Scandinavica moved to BioMed Central in 2006, along with its Impact Factor. As an effect of the much improved visibility of the journal's content we have seen a significant rise in submissions, often from countries where researchers would not have considered publishing with us in the past.”*

**Mats Forsberg, Editor-in-Chief (2005 – 2012)**

# Impact Factors!

- The impact factor (IF) of an academic journal is a measure reflecting the average number of citations to recent articles published in the journal. It is frequently used as a proxy for the relative importance of a journal within its field, with journals with higher impact factors deemed to be more important than those with lower ones.
- The impact factor of a journal is:

The number of times that articles published in that journal in 2006 and 2007, were cited by articles in indexed journals during 2008

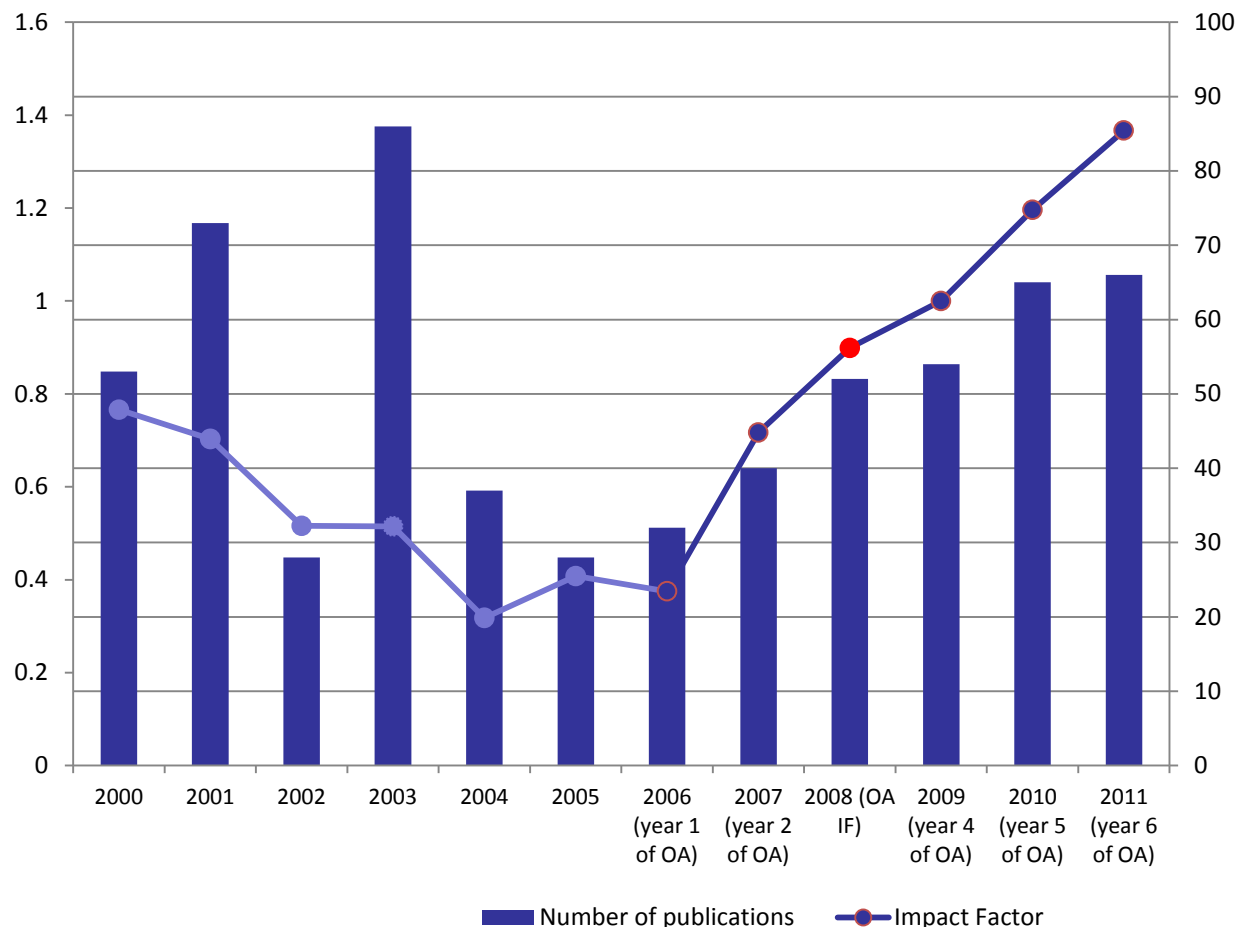
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the total number of "citable items" published by that journal in 2006 and 2007)

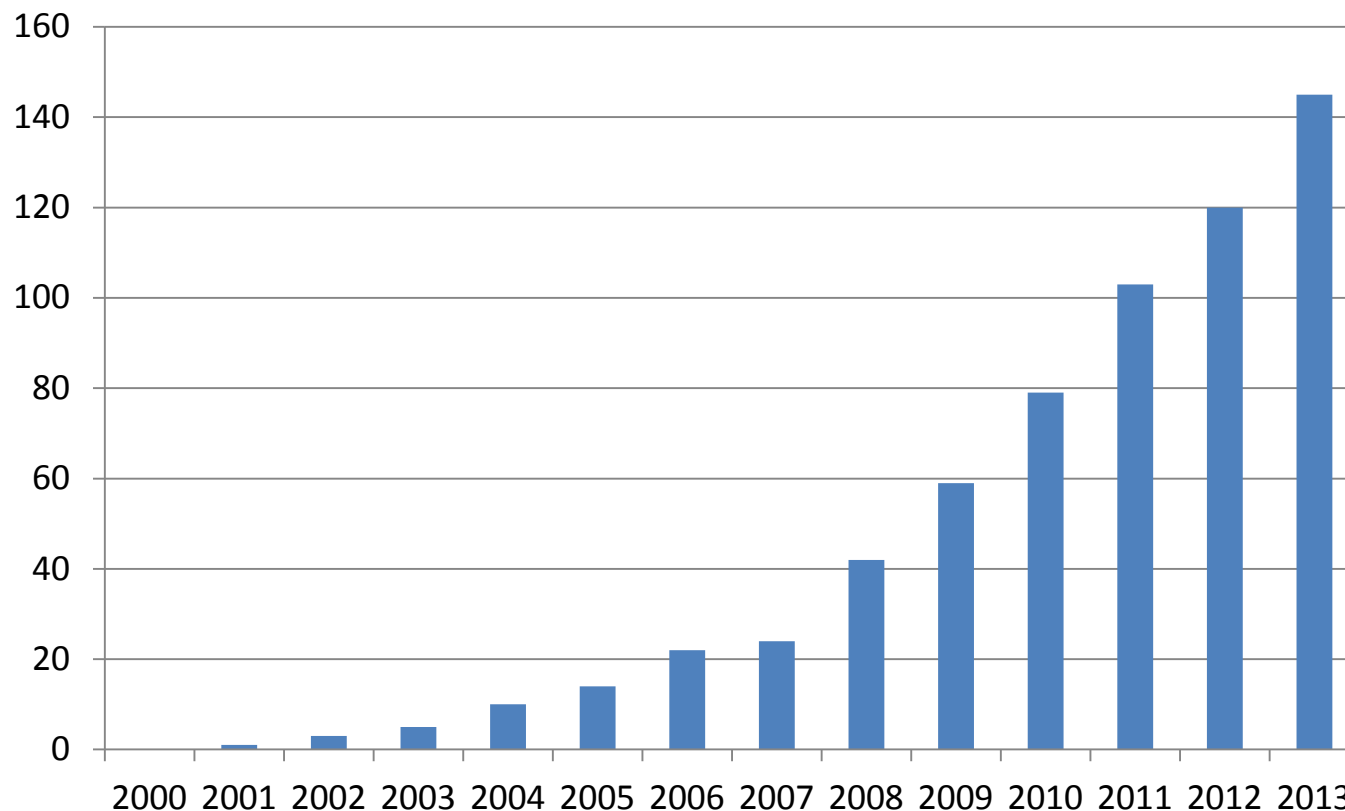


# Case study 1: *Acta Veterinaria Scandinavica*

- Fifty year old journal
- Transferred 2006
- Impact Factor has increased more than 3x due to open access effect



# BioMed Central Impact Factors

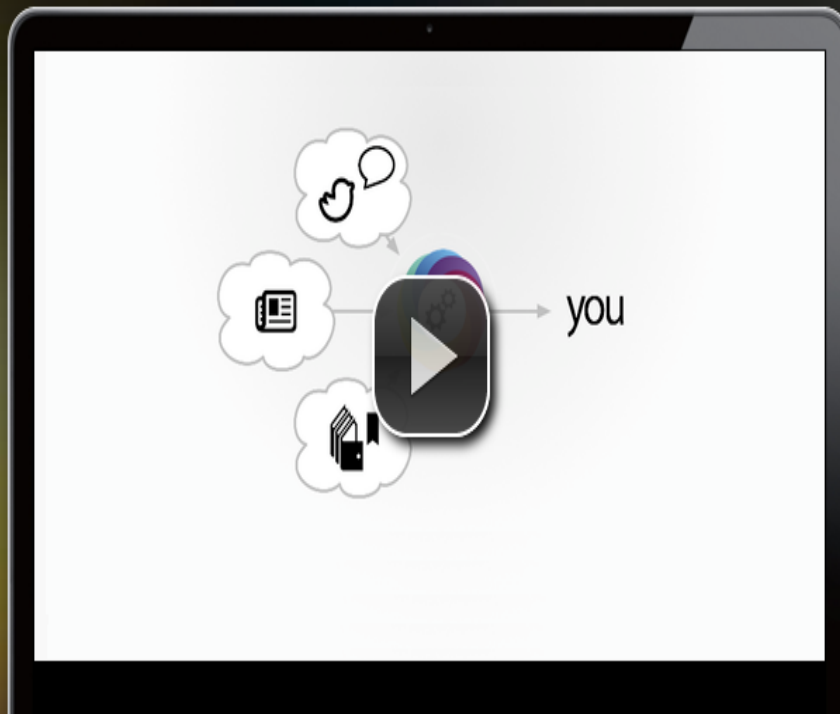


# BioMed Central Impact Factors

Genome Biology	10.3
BMC Biology	6.53
BMC Genomics	4.40
BMC Medicine	6.68
BMC Public Health	2.08
Breast Cancer Research	5.87
Critical Care	4.72
Stem Cell Research & Therapy	3.65
BMC Plant Biology	4.65
Journal of Translational Medicine	3.46
Malaria Journal	3.40
Parasites & Vectors	3.25
Arthritis Research & Therapy	4.30
Retrovirology	6.47



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## Journal Rankings

### Ranking Parameters

Subject Area:

Subject Category:

Country:  Year:

Order By:

Display journals with at least:  Citable Docs. (3 years)

Complete list (2012).



Download data in MS Excel format (4537 Kb)

1 - 50 of 20554 << First | < Previous | Next > | Last >>



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	Title	SJR	H index	Total Docs. (2012)	Total Docs. (3years)	Total Refs.	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc.	Country
1	Reviews of Modern Physics	39,439	198	45	170	13.101	8.386	162	43,75	291,13	
2	Annual Review of Immunology	30,095	218	28	69	4.875	3.629	69	38,80	174,11	
3	Ca-A Cancer Journal for Clinicians	29,855	92	41	118	3.036	8.072	95	106,13	74,05	
4	Advances in Physics	24,813	74	7	28	2.922	775	21	38,71	417,43	
5	Annual Review of Biochemistry	21,509	210	32	105	4.863	3.364	105	28,47	151,97	
6	Nature Genetics	20,421	395	293	822	9.521	22.243	694	30,53	32,49	
7	Cell	19,848	521	558	1.547	27.330	36.973	1.429	24,83	48,98	
8	Chemical Reviews	17,308	400	184	601	61.753	23.589	571	41,69	335,61	
9	Annual Review of Neuroscience	17,241	166	27	62	3.564	1.784	62	22,70	132,00	
	aterials	16,246	219	242	713	6.778	15.113	560	26,12	28,01	

# Open Access publishing at Springer

## Author Rights / Green route

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- Self-archiving of author's accepted version

## Hybrid open access

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- Springer Open Choice
- Creative Commons

## 'Full' OA

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-  **BioMed Central**  
The Open Access Publisher
-  **Springer Open**
-  **Chemistry Central**  
open access to chemistry
- **Books** (NEW!)
- Creative Commons

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# BioMed Central

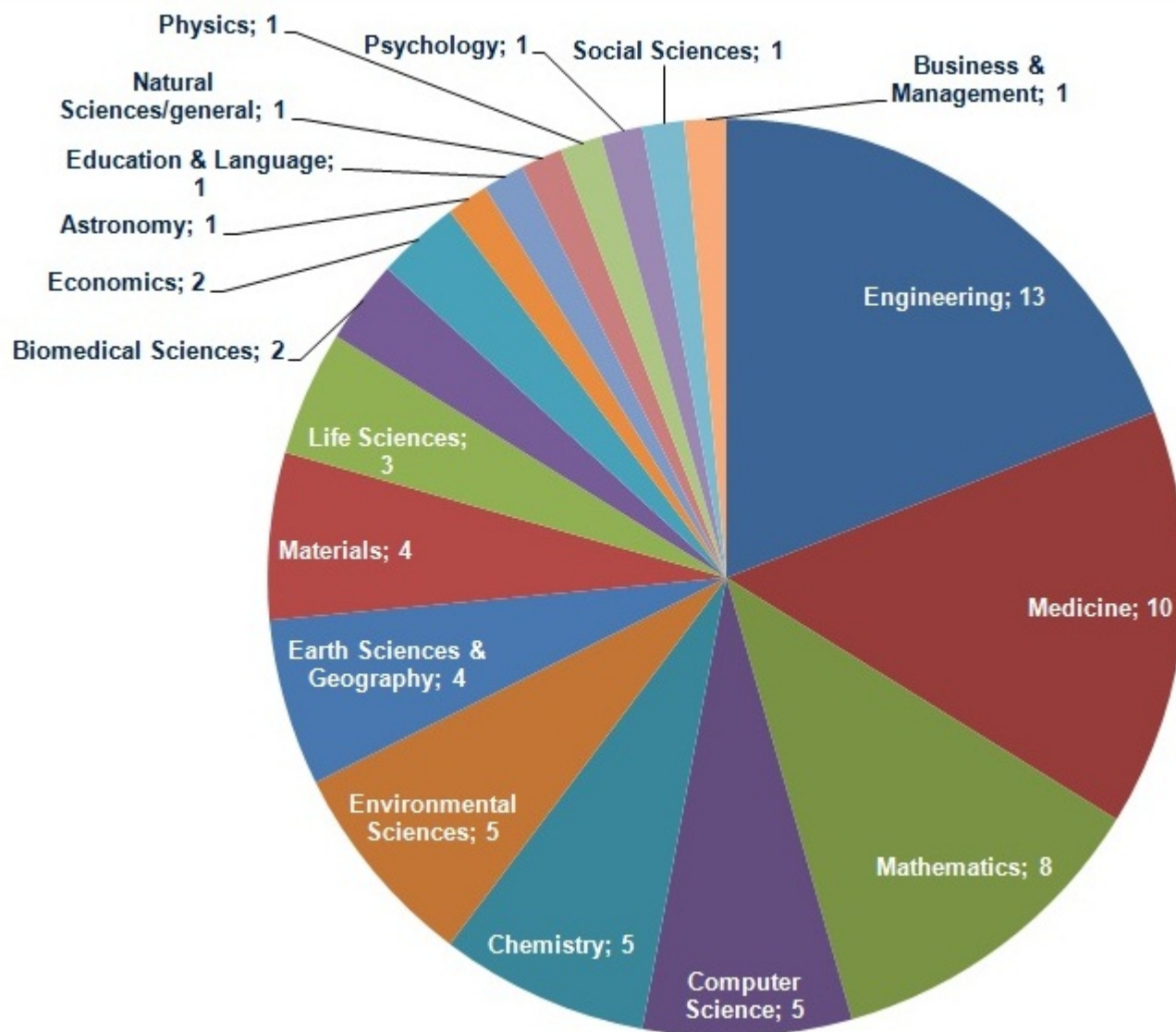
- Launched first open access journal in 2000
- Now publishes 260+ OA titles
- Over 140,000 peer-reviewed OA articles published
- More than 10 million article downloads per month
- Creative Commons
- Costs covered by 'article processing charge' (APC)
- Became part of Springer in 2008
- SpringerOpen



# SpringerOpen<sup>®</sup>

- Open access journals covering all disciplines
- Creative Commons
- 127 journals already, 15 already have impact factors
- Administered by BioMed Central

# SpringerOpen subject fields



# The business model

- No subscription revenue
- Small amount of revenue from reprints and advertising.
- Revenue from APCs - payable on editorial acceptance of articles
- APCs paid from..
  - research grants
  - by research funders
  - universities
  - societies
  - governmental agencies
  - charities
- Membership...

# Article-processing charges

The article-processing charge covers:

- **Editorial:** handling of manuscripts
- **Technical:** development, maintenance and operation of online journal platforms and manuscript handling systems
- **Production:** Formatting and mark up of articles, inclusion in indexing services
- **Marketing:** Making sure readers and authors know about the journal
- **Customer service:** Responding to authors/readers

**No extra charge for inclusion of colour figures, videos/animations or large data sets (no limits on article length)**

# BioMed Central and SpringerOpen Institutional Agreements

## Prepay Agreement

- Organisation covers the article cost (APC) for their researchers by deposit
- No membership fee
- Researchers do not pay anything
- Discount on the APC for institution
- Deposit available without time limits

## Shared Support Agreement

- Cost shared equally between institution and researcher
- No membership fee
- Additional discount on APC's for researchers
- Deposit available without time limits

## Supporter Agreement

- Organisation does not cover the APC for the researchers
- Annual membership fee for institution
- 15% discount on APC's – researchers pay less

## For all agreement types:

- Automated article feeds
- Institutional Members Page
- Marketing and PR support
- Automatic IP recognition or submission by code

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<a href="#">Denmark</a> (4)	<a href="#">Japan</a> (1)	<a href="#">Norway</a> (3)	<a href="#">United Kingdom</a> (51)
<a href="#">Ethiopia</a> (2)	<a href="#">Kenya</a> (3)	<a href="#">Poland</a> (2)	<a href="#">United States of America</a> (163)

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## The Scientific Publishing Sting: a Missed Opportunity?

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# Flawed sting operation singles out open access journals

by Martin Eve, The Conversation



Isn't open access better? Credit: fuzzcaminski

In a sting operation, John Bohannon, a correspondent of *Science*, claims to have exposed dodgy open access journals. His argument seems to be that, because of their business model, some journals are biased towards accepting scientific articles, regardless of their quality. Sadly, Bohannon's operation adds little to what we already know.

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# What happened?

- Versions of a fake science paper submitted to 304 Open Access journals, claiming miracle cure for cancer had been found
- Papers include very serious mistakes; experiments are obviously flawed and therefore meaningless
- Of 304 journals..
  - 255 said that they would review the study
  - 157 journals accepted the paper to be published.

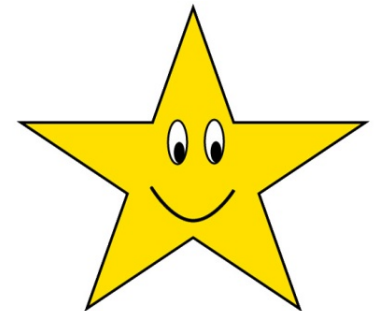
# What does this mean?

- Bad news for Open Access?

*The study did not include any non-OA journals*

*Where is the fair comparison??*

- Peer Review system is flawed
- It's the ethics of the publisher / journal, not the business model that determines quality and sound publishing and peer review
- BioMed Central, Plos and Hindawi rejected the paper
- Remember to please be aware of....

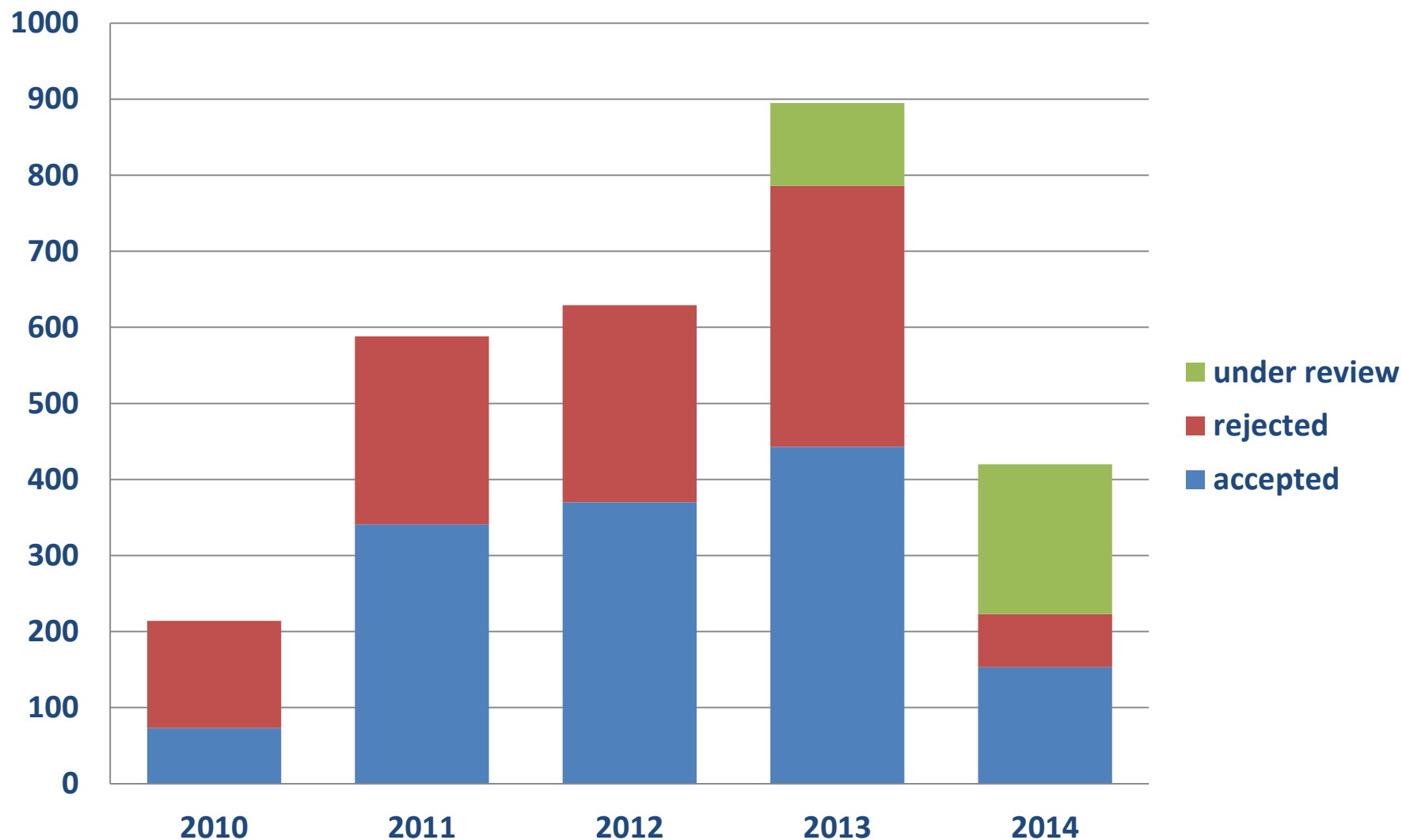


# Predatory Open Access Publishers

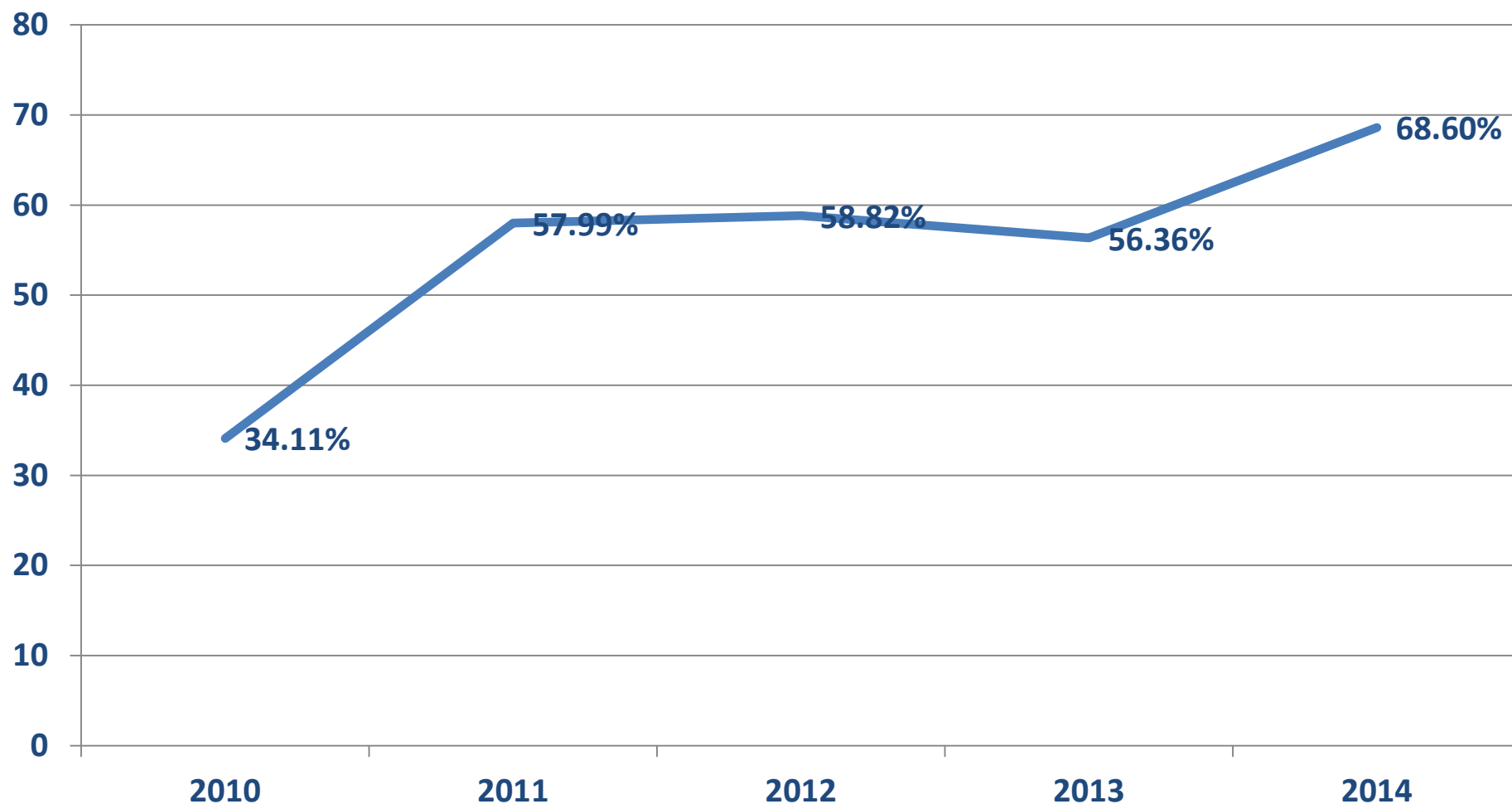
**Beall's List:** Potential, possible, or probable predatory scholarly open-access publishers

- Ethical standards established by membership organisations such as OASPA (Open Access Scholarly Publishers Association ) or COPE
- Editor and staff
- Business management
- Integrity

## Swiss manuscripts in BMC journals

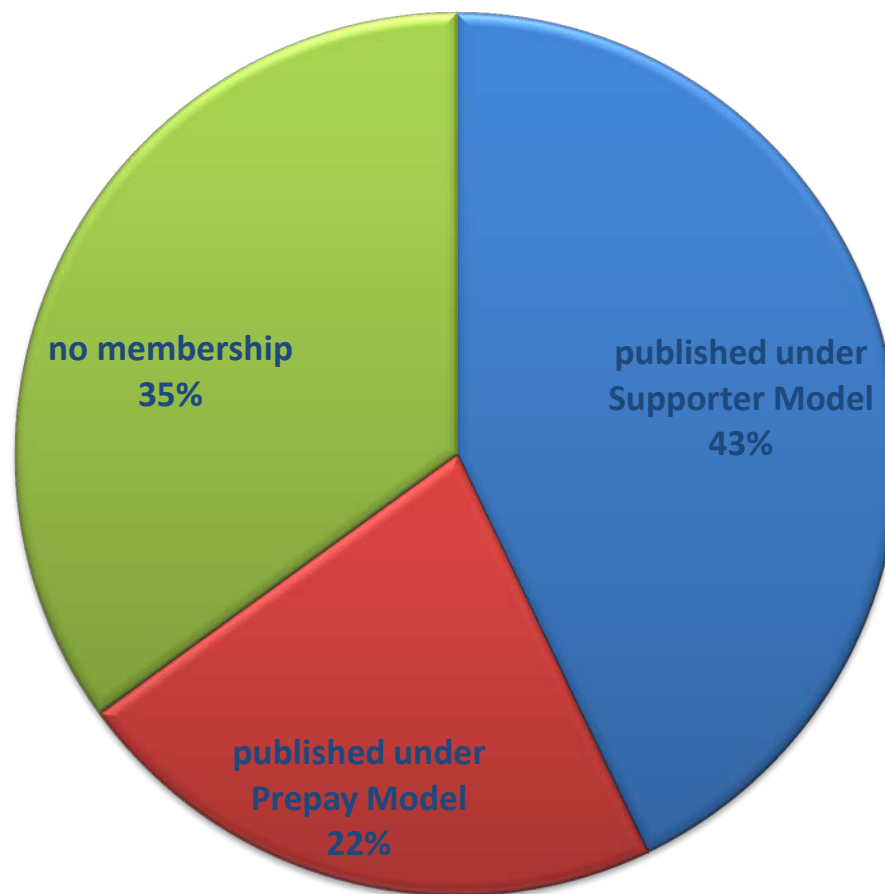


# Acceptance rate of Swiss manuscripts in BMC journals

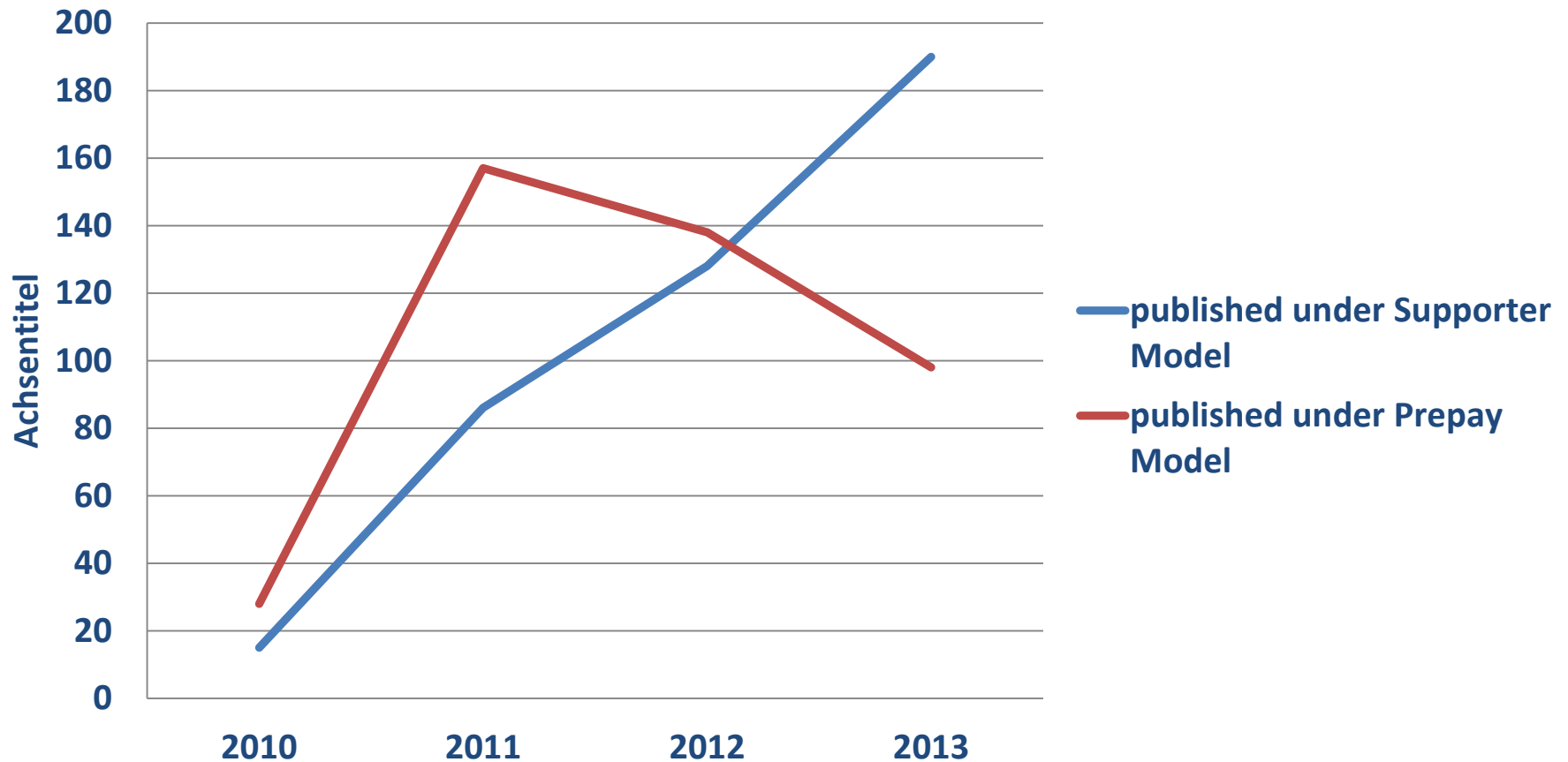




# Membership models in 2013



# Preferred membership types



# Summary

- Open access publishing is growing fast, also in Switzerland where this development has been ongoing for many years
- Increasing quality and recognition of open access journals are encouraging this development
- Funding is restricted and partial funding of open access articles is gaining more importance over full funding options at BMC
- BioMed Central and SpringerOpen work closely with authors and organisations to encourage open access and to make sure we provide the service and quality they are looking for in publishing
- What else could be done to encourage open access with the authors, at a university and funder level in Switzerland?

# Thank you!

## Any questions?



I ♥  
open  
access