

## Gaining access to critical information - BioMed Central

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## Scope

- Open Access Growth
- BioMed Central
- Springer Open
- Enhanced Publications; trial publishing and the reporting bias
- Threaded publications



# What does "Open Access" to scientific research mean?

- Universally available online without any barriers to access
- Creative Commons
  - Licensed to allow redistribution and reuse (as long as attribution is given)
- Permanently archived in multiple locations to ensure long term access
  - PubMed Central



## Why Open Access?

- Enhances scholarly communication
- Research has more impact
- Increases the institutes and authors profile
- Readers get better access to funded research
- Improves visibility and impact of an institutions research
- No subscription barriers



## **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
- PubMed Central
- UK PubMed Central
- ArXiV

- -DSpace
- -Eprints
- -Fedora
- -Open Repository



## Growth in OA 2000 - 2010



BioMed Central The Open Access Publisher

## **BioMed Central**

- Pioneered open access publishing model
- Launched first open access journal in 2000
- Now publishes >230 OA titles
- Creative Commons license
- Costs covered by 'article processing charge' (APC)



## Open Access articles published in BioMed Central journals



## BioMed Central journals with impact factors

Open access model proven to be fully compatible with high quality



## Norwegian open access activity

2001 - 2010



## **BioMed Central Members**

- 384 Members in 42 countries worldwide
- 4 Members in Norway University of Bergen, University Library of Tromso, Norwegian Air Ambulence Foundation & Norwegian Inst. Public Health.
- Benefits of Membership
  - Increase in research output
  - Researchers' fees paid for in full or discounted
  - Cost-effective
    - Showcase of institution's research



## Automated Deposit to IR via SWORD



## Acquisition of BioMed Central in 2008



*"Springer is now the world's largest open access publisher" Peter Suber in October 2008* 



# SpringerOpen





- Open access journals covering all disciplines
- Creative Commons
- 53 journals already, 11 already have impact factors
- Administered by BioMed Central
- No subscriptions, article processing fees instead (800 1,250 EUR)
  - Paid by the author (via research grant, library, institutional OA fund, ...)
  - Paid by a member institution
  - Waivers (economic hardship)





## Learn more...

#### springeropen.com

#### http://twitter.com/springeropen



#### Follow us on



BioMed Central The Open Access Publisher

# New ways of making research available

### **Current Controlled Trials**

An online publisher dedicated to trial registration, hosting and trial information.

#### **Special journals**

Trials, Journals of Medical Case Reports, BMC Research Notes



## Enhanced Publications (EP)

An enhanced publication is a scholarly publication – usually a full text – that has been enhanced with additional (supplementary) materials

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## **Enhanced Publications**

Publications combined with research data

- Improve interpretation, reproduction and verification
- Promote available data
- Browseable network of related items





## Overview of Trial Publishing Sequence





## Challenges

#### **Publication bias**

Articles reporting results favoring the medical intervention being studied (i.e. positive rather than negative results) are more likely to be published

#### Visibility/ transparency

Access to research data needs to be improved

### Usability and connectivity

Data sets and publications related to the same trial (e.g. trial registration, study protocol, results) need to be more interconnected



## Avoiding reporting bias

BMJ 2010;341:c4737 doi:10.1136/bmj.c4737 (Published12 October 2010) Cite this as: BMJ 2010;341:c4737

#### Research

October 2010: Reboxetine is "overall an ineffective and potentially harmful antidepressant" Reboxetine for acute treatment of major depression: systematic review and meta-analysis of published and unpublished placebo and selective serotonin reuptake inhibitor controlled trials

OPEN ACCESS

Dirk Eyding, project manager<sup>1</sup>, Monika Lelgemann, senior researcher<sup>2</sup>, Ulrich Grouven, statistician<sup>3</sup>, Martin Härter, head of department of medical psychology<sup>5</sup>, Mandy Kromp, statistician<sup>3</sup>, Thomas Kaiser, head of department of drug assessment<sup>3</sup>, Michaela F Kerekes, data manager<sup>3</sup>, Martin Gerken, researcher<sup>6</sup>, Beate Wieseler, deputy head of department of drug assessment<sup>3</sup>

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## Addressing reporting bias BMC Research Notes

BioMed Central's journal *BMC Research notes* offers home for such publications.

=> Scope: scientifically sound research in Biology and Medicine; data sets, small scale clinical studies, reports of confirmatory or negative results



## Introducing threaded publications

In their 1999 article in *The Lancet*, Altman and Chalmers wrote:

"Electronic publication of a protocol could be simply the first element in a sequence of 'threaded' electronic publications, which continues with reports of the resulting research (published in sufficient detail to meet some of the criticisms of less detailed reports published in print journals), followed by deposition of the complete data set."



## What BioMed Central is doing

- Technology (improved linking of content)
- Journals and article types
  Such as Trials, Systematic Reviews, Journal of Medical Case Reports and BMC Research Notes

#### Financial incentives

APC discounts when publishing more than one element of a thread in one of our journals or registering a trial with CCT.



## Conclusions

- More reliable, transparent, unbiased research
- All scientifically sound research can be published
- We can better serve the health of patients with transparency
- Threaded publications are already working at BioMed Central - Call to action for other publishers...
- Innovation in science communication requires a combined effort from all stakeholders

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Open Access Publisher

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## Summary

- Maximizes research visibility
- OA supported by authors, funders, institutions & governments - part of the mainstream
- Quality journals
- Successful business model
  - liberal stance on author rights
  - open minded & collaborative approach
  - strong & continued support for sustainable Open Access



## Thank you

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