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Advantages and limitations of open access journals: wide visibility of articles, higher impact, academic promotion and copyright laws

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Member, World Association of Medical Editors
Chief Editor, European Science Editing

History of open access

- **Budapest Open Access Initiative suggested to provide open access covering free reading option, reuse for writing and lecturing, copyright issues, depositing and machine readability - publishing convertable files - PDFs (2002)**

Definition of open access

OA is an unrestricted online access to

scholarly articles,

journals,

e-books,

e-theses,

PPT presentations,

and video films (eg through YouTube)

Closed and semi-closed access

- ✓ **Non-OA journals provide access at a subscription or pay-per-view costs**
- ✓ **Delayed open access is when journals provide full access after a 6-12 month embargo period of 6–12 months**

Who pays for OA

- ✓ **The author's employer or research funding agency**
- ✓ **Journals waiving fees for the authors from developing countries, those with financial hardships**
- ✓ **Individual author**

OA options

Green OA - authors publish in an article and self-archive in a repository the peer-reviewed postprint (revised final or the publisher's version of the article).

“Green” light is dependent on the Publisher Copyright Policies and Self-Archiving

Gold OA authors publish in an open-access journal with immediate OA to all of its contents on the publisher's website

Hybrid OA – access is open only for journal articles for which their authors/funders pay a fee

Adoption of open access policies

- **Registry of Open Access Institutions and Funding agencies**
- **161 institutions and 53 funding agencies have adopted OA policies so far**

<http://roarmap.eprints.org/>

World OA policies

Total Mandates to Date (by type)

**Institutional Mandates
(161)**

**Sub-Institutional
Mandates (35)**

**Multi-Institutional
Mandates (4)**

Funder Mandates (53)

Thesis Mandates (97)

**Proposed Institutional Mandates
(4)**

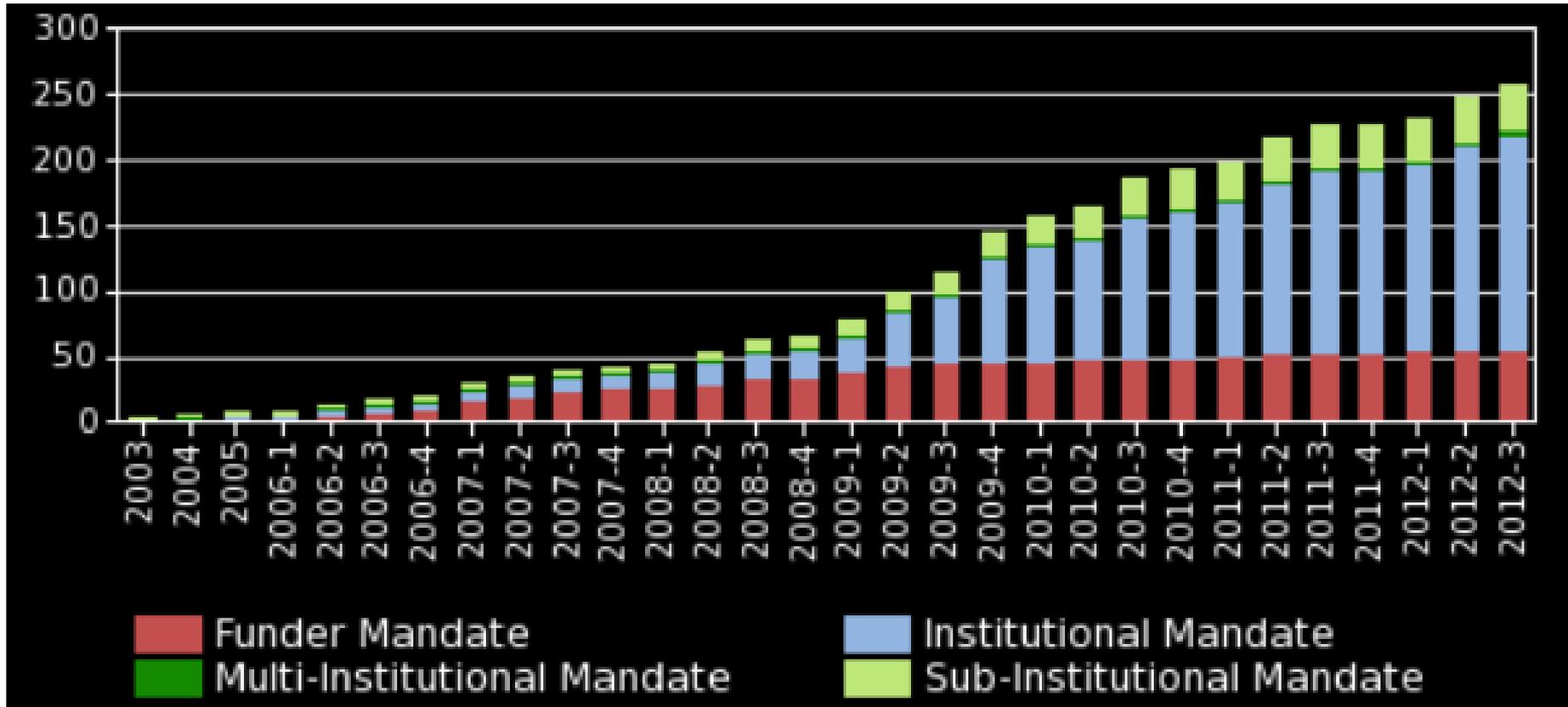
**Proposed Sub-Institutional
Mandates (3)**

**Proposed Multi-Institutional
Mandates (6)**

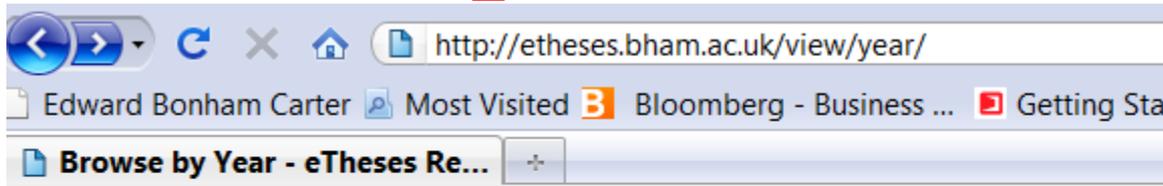
**Proposed Funder Mandates
(10)**

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Open access trend



OA repositories of dissertations



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For everyone

e- and m-learning in medical education

Potts, HWW (2012) e- and m-learning in medical education. Presented at: 2TIME: 2nd Trainees in Medical Education Conference, London, UK.

An open access version is available from UCL Discovery



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SEARCH

For everyone

Mean Platelet Volume: A Link Between Thrombosis and Inflammation?

Gasparyan, AY and Ayvazyan, L and Mikhailidis, DP and Kitas, GD (2011) Mean Platelet Volume: A Link Between Thrombosis and Inflammation? *CURR PHARM DESIGN* , 17 (1) 47 - 58.

Full text not available from this repository.

Abstract

Platelet activation is a link in the pathophysiology of diseases prone to thrombosis and inflammation. Numerous platelet markers, including mean platelet volume (MPV), have been investigated in connection with both thrombosis and inflammation. This review

Country-based OA policies

- **No any registered data for Iran**
- **1 institutional mandate from Turkey**
- **26 entries from Italy (mostly thesis mandates)**
- **53 entries from UK**

<http://roarmap.eprints.org/>

Learned definition of OA

- ✓ PLOS (Public Library of Science)
- ✓ SPARC (Scholarly Publishing and Academic Resources Coalition)
- ✓ OASPA (Open Access Scholarly Publishers Association)



- **On free availability + rights of reuse**



<http://www.arl.org/sparc/media/HowOpenIsIt.shtml>

Definition of Open Access

- **OA is a means of disseminating scholarly information not based on the traditional subscription model. It is aimed at accelerating the pace of discovery, innovations, and enrich education.**
- **Open Access - readers, practitioners, and researchers are able to obtain content at no cost.**
- **Open Access components - readership, reuse, copyright, posting and machine readability.**
- **Immediate availability and reuse are ideal for open access model**



Implications of Open Access

- **Article Quality**
- **Research impact**
- **Quality of Peer Review**
- **Academic Promotion**



Components of OA: reader rights



Free readership rights immediately upon publication

Free readership rights after 6 month embargo

Free readership rights after 12 month embargo

Free and immediate readership rights to some, but not all, articles ("hybrid" model)

Subscription, membership, pay-per-view, or other fees required to read



Components of OA: reuse rights



Generous
reuse & remixing
rights (CC-BY license)

Reuse, remixing, &
further building upon the work
subject to certain restrictions
& conditions (CC BY-NC & other
Creative Commons licenses)

Reuse (no remixing or
further building upon the
work) subject to certain
restrictions and conditions

No reuse rights beyond fair use/
limitations & exceptions to copyright
(all rights reserved copyright)



Open

Components of OA: copyrights



Author holds
copyright with
no restrictions

Author holds copyright,
with some restrictions on
reuse of published version

Publisher holds copyright,
with some allowances for author
reuse of published version

Publisher holds
copyright



Components of OA: posting rights



Author may post any version to any third-party repository or website

Author may post final version of the peer-reviewed manuscript ("postprint") to any third-party repository or website

Author may post final version of the peer-reviewed manuscript ("postprint") to certain third-party repositories or websites

Author may post submitted version/draft of final work ("preprint") to certain third-party repositories or websites

Author may not deposit any versions to third-party repositories or websites



Components of OA: automatic posting



Journals make copies of articles automatically available in trusted third-party repositories (e.g., PubMed Central) immediately

Journals make copies of articles automatically available in trusted third-party repositories (e.g., PubMed Central) within 6 months

Journals make copies of articles automatically available in trusted third-party repositories (e.g., PubMed Central) within 12 months

No automatic posting in third-party repositories



Components of OA: readability



Article full text, metadata, citations & data, including supplementary data, provided in community machine-readable standard formats through a community standard API or protocol

Article full text, metadata, citations, & data, including supplementary data, may be crawled or accessed through a community standard API or protocol

Article full text, metadata, & citations may be crawled without special permission or registration

Article full text, metadata, & citations may be crawled with permission

Article full text & metadata not available in machine-readable format



Advantages of OA: citations

- **Analysis of OA vs. non-OA articles published in June-Dec 2004 the *Proceedings of the NAS* (*PNAS*)**
- **212 (14.2%) – OA**
- **1,280 (85.8%) - non-OA**
- **After 10-16 months post-publication average citations of OA articles were ↑ 6.4 vs. 4.5; $P < 0.001$, and after correction for confounders OA articles were 3 times more likely to be cited**

Eysenbach G. Citation advantage of open access articles. PLoS Biol 2006;4(5):e157.

Advantages of OA: downloads

- OA articles are downloaded more (3 times more within a year), but not obligatory cited

Davis PM. Open access, readership, citations: a randomized controlled trial of scientific journal publishing. FASEB J 2011;25(7):2129-34

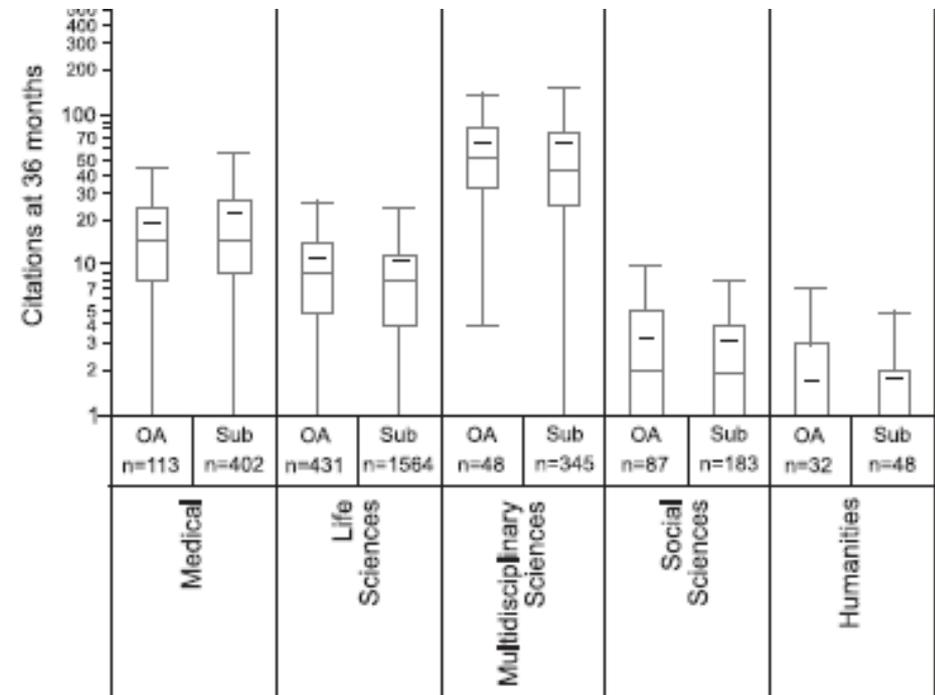


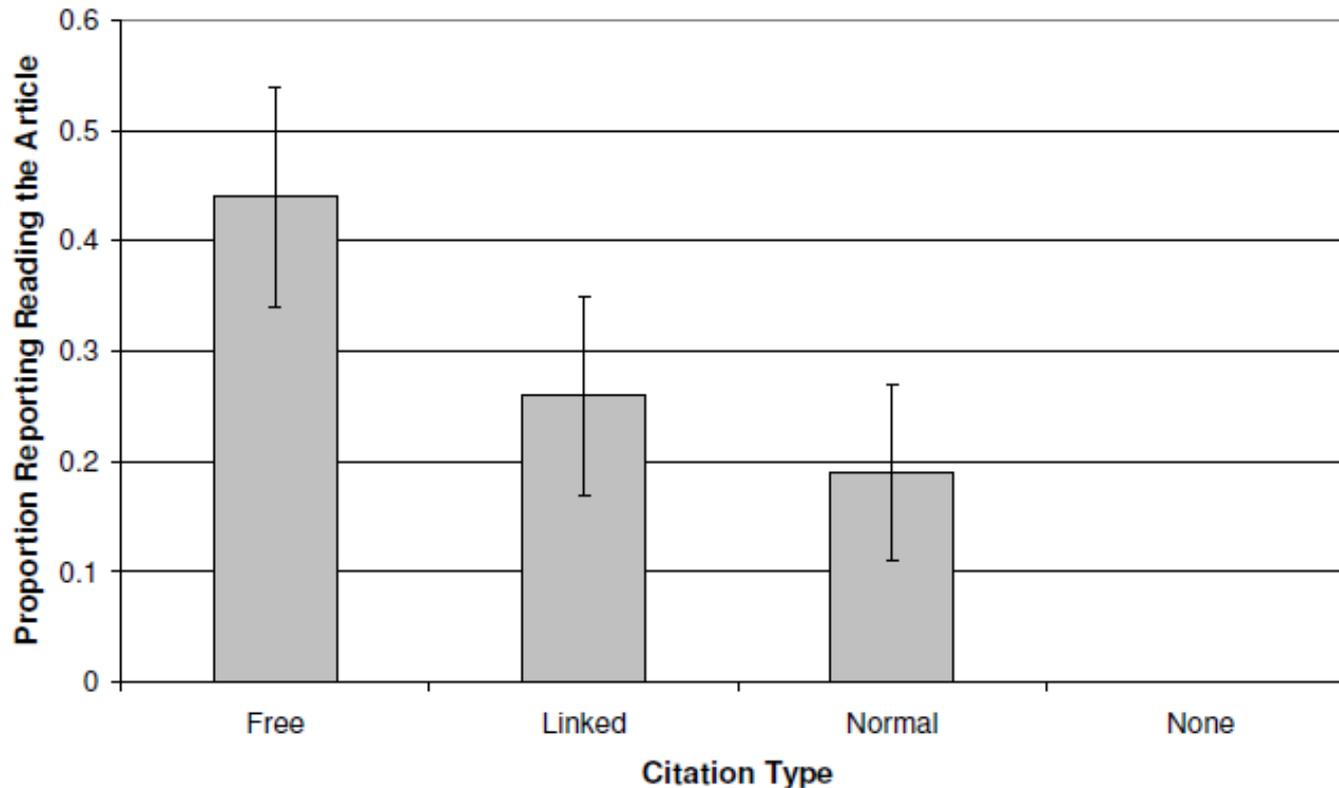
Figure 1. Citation frequency of open access (OA) and

Advantages of OA: academic

- OA articles are read more and used for academic and medical purposes

Hardisty DJ, Haaga DA. Diffusion of treatment research: does Open Access matter? J Clin Psychol 2008;64(7):821-39.

Study 1: Effect of Citation Type on Reported Reading Rates



Advantages of OA: financial

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