

# Open Access: What Might Happen Next?

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University of Maryland  
College Park, MD  
April 10, 2014

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- The Budapest Open Access Initiative – February 14, 2002

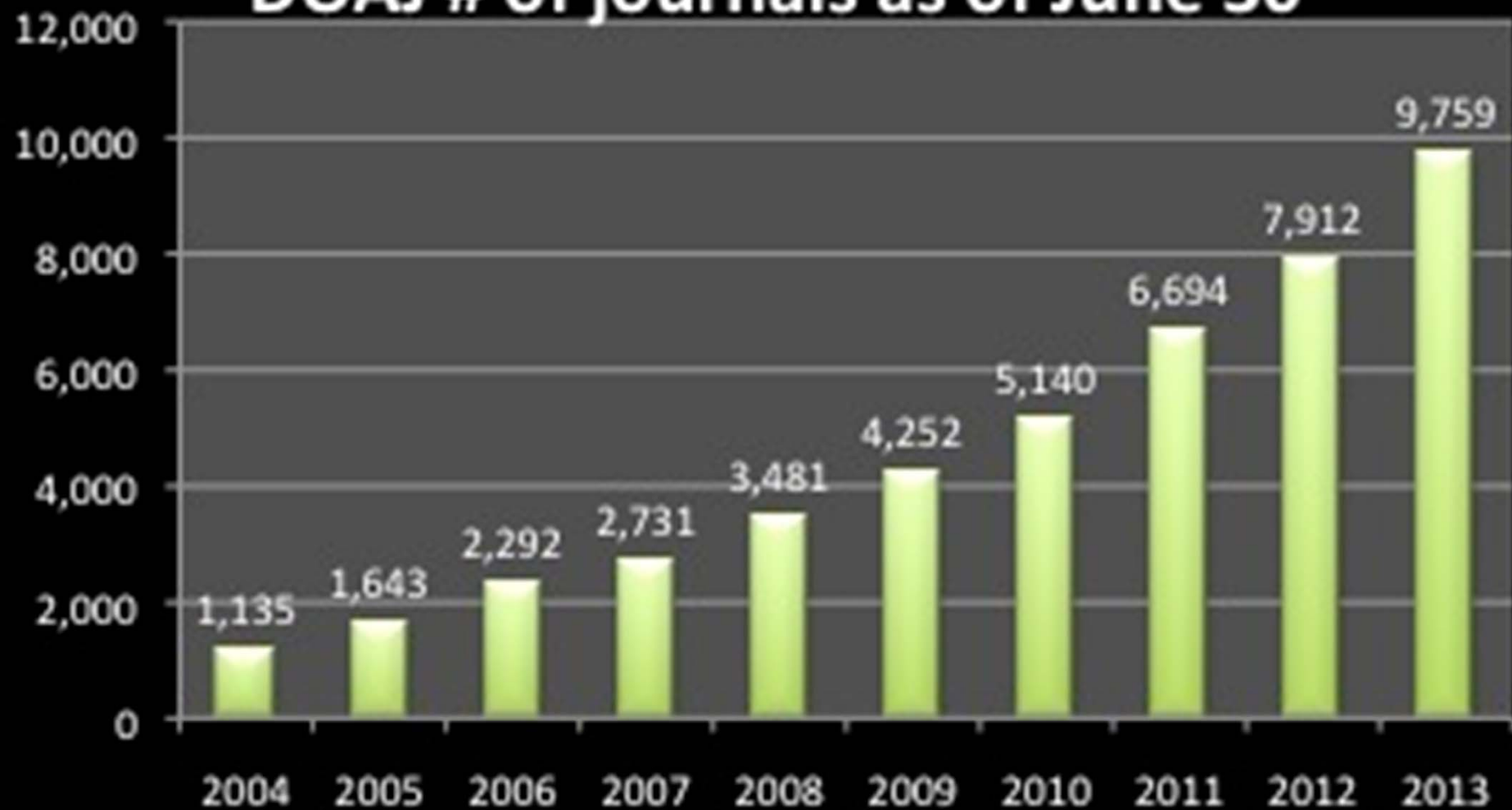


**Articles, Yes.**

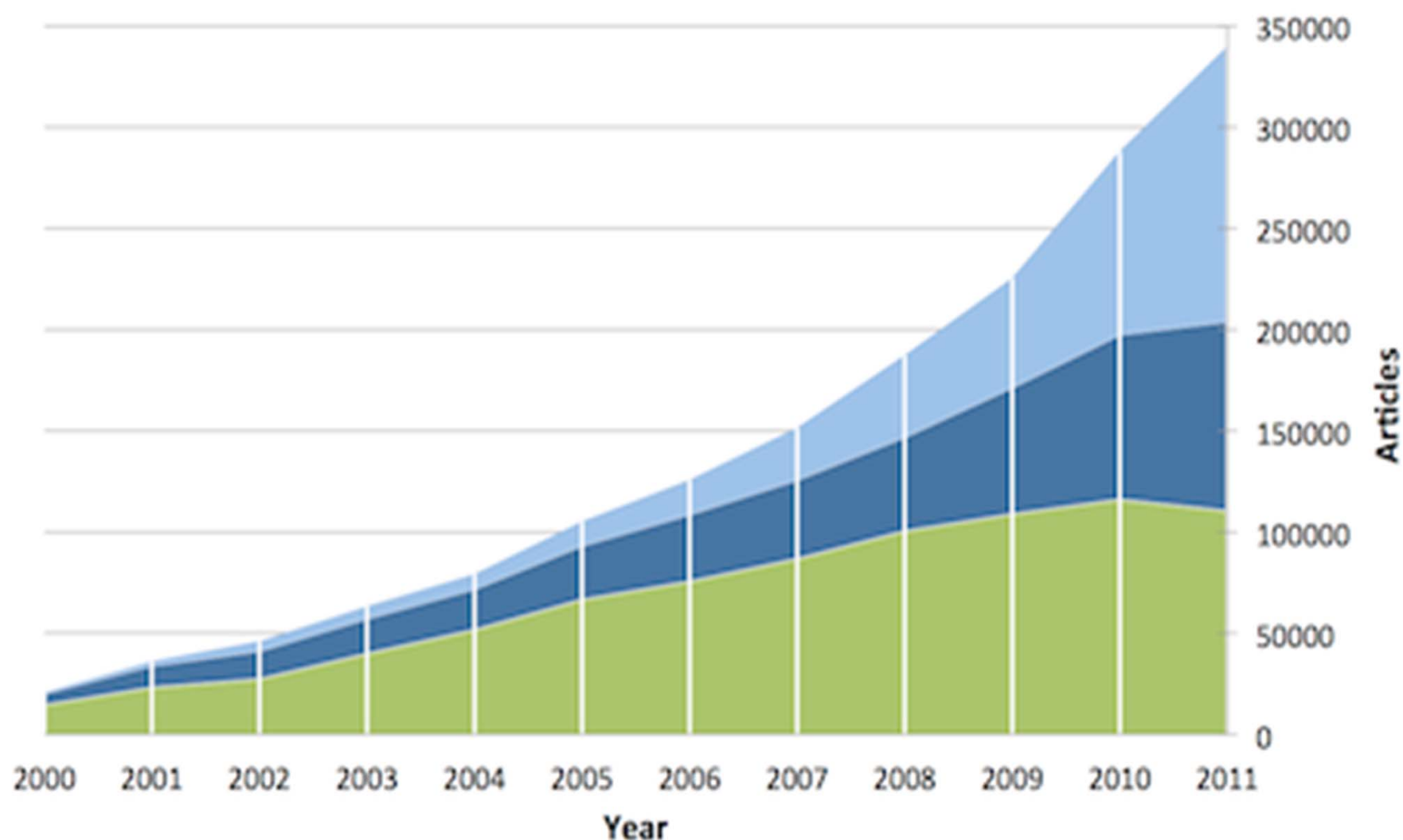
**But Also: Data and  
Educational Resources**

**So What's the Latest?**

## DOAJ # of journals as of June 30

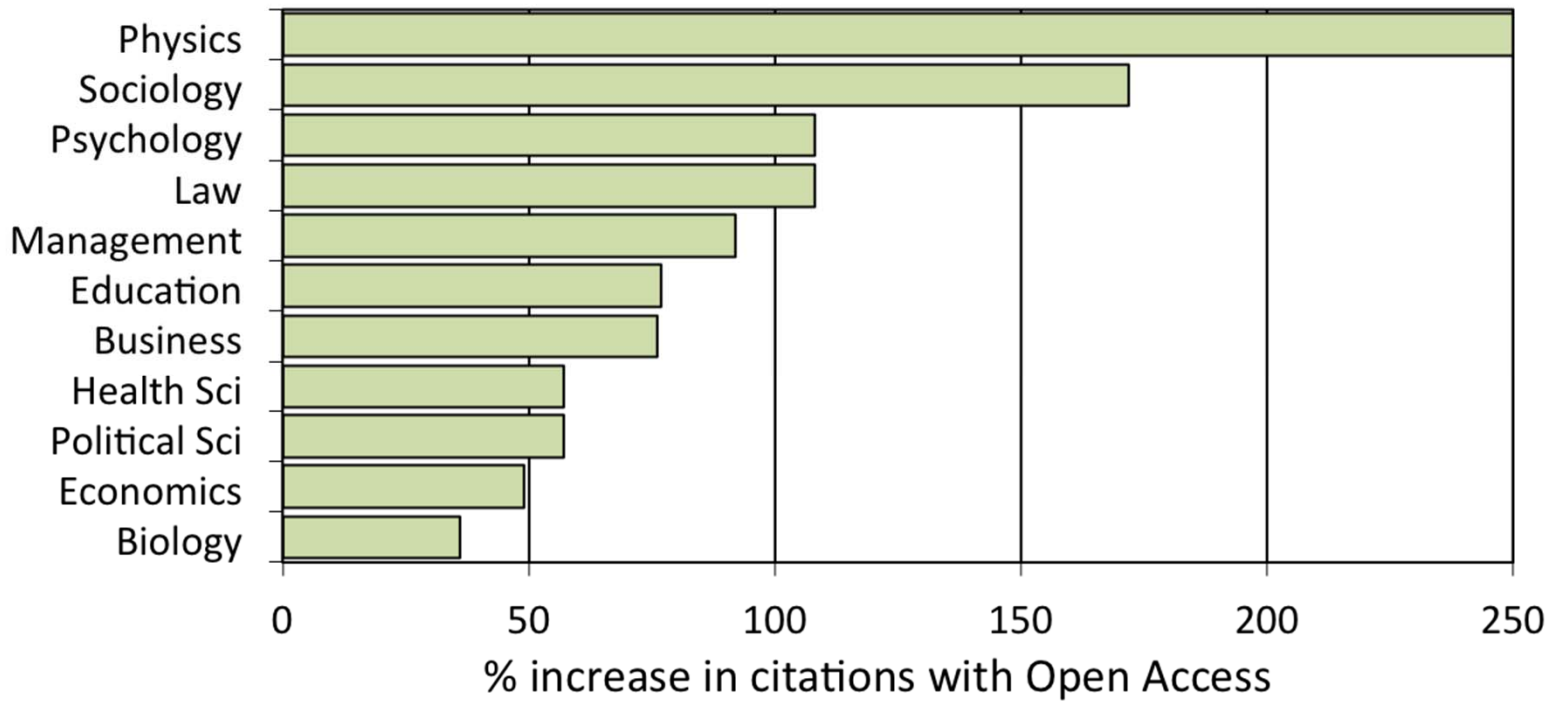


CC-BY-NC-SA Heather Morrison IJPE <http://poeticeconomics.blogspot.com>



**The rapid rise in open access. The graph (from Laasko and Bjork's paper – BMC Medicine 2012, 10:124) shows the numbers of papers published in three different types of online open access journals from 2000 to 2011. Courtesy The Guardian**

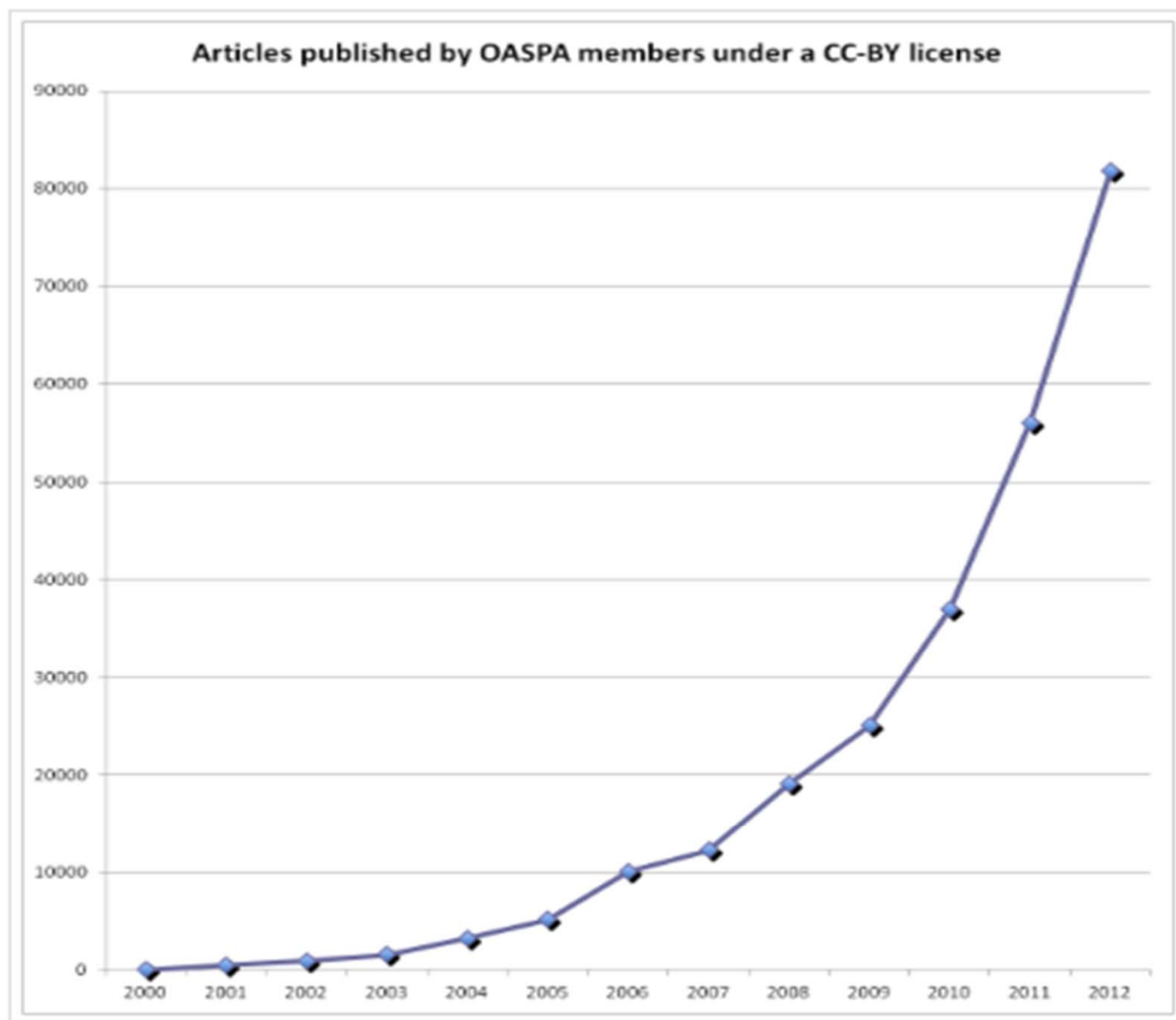
# Impact



**Range = 36%-200%**

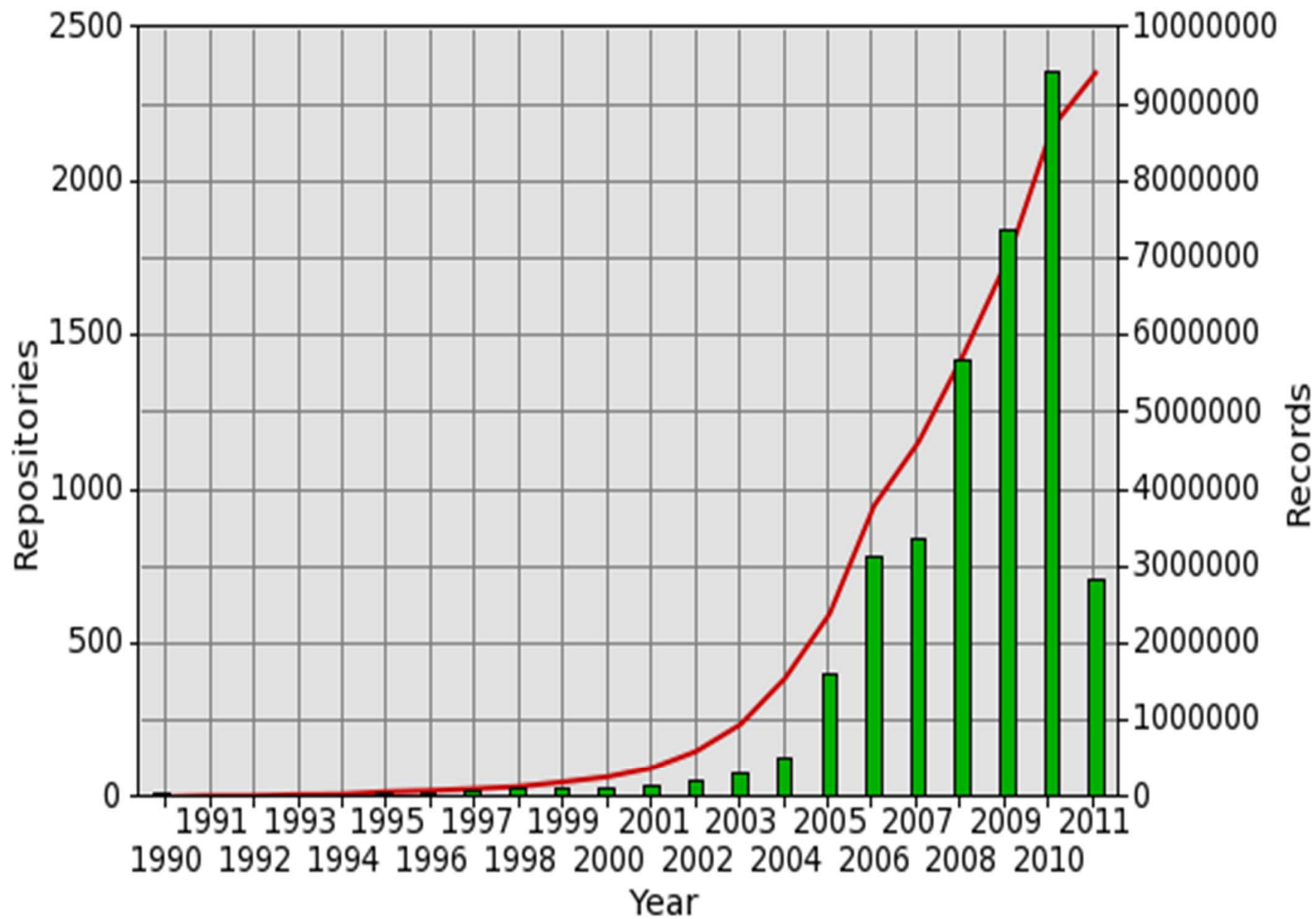
(Data: Stevan Harnad and co-workers)

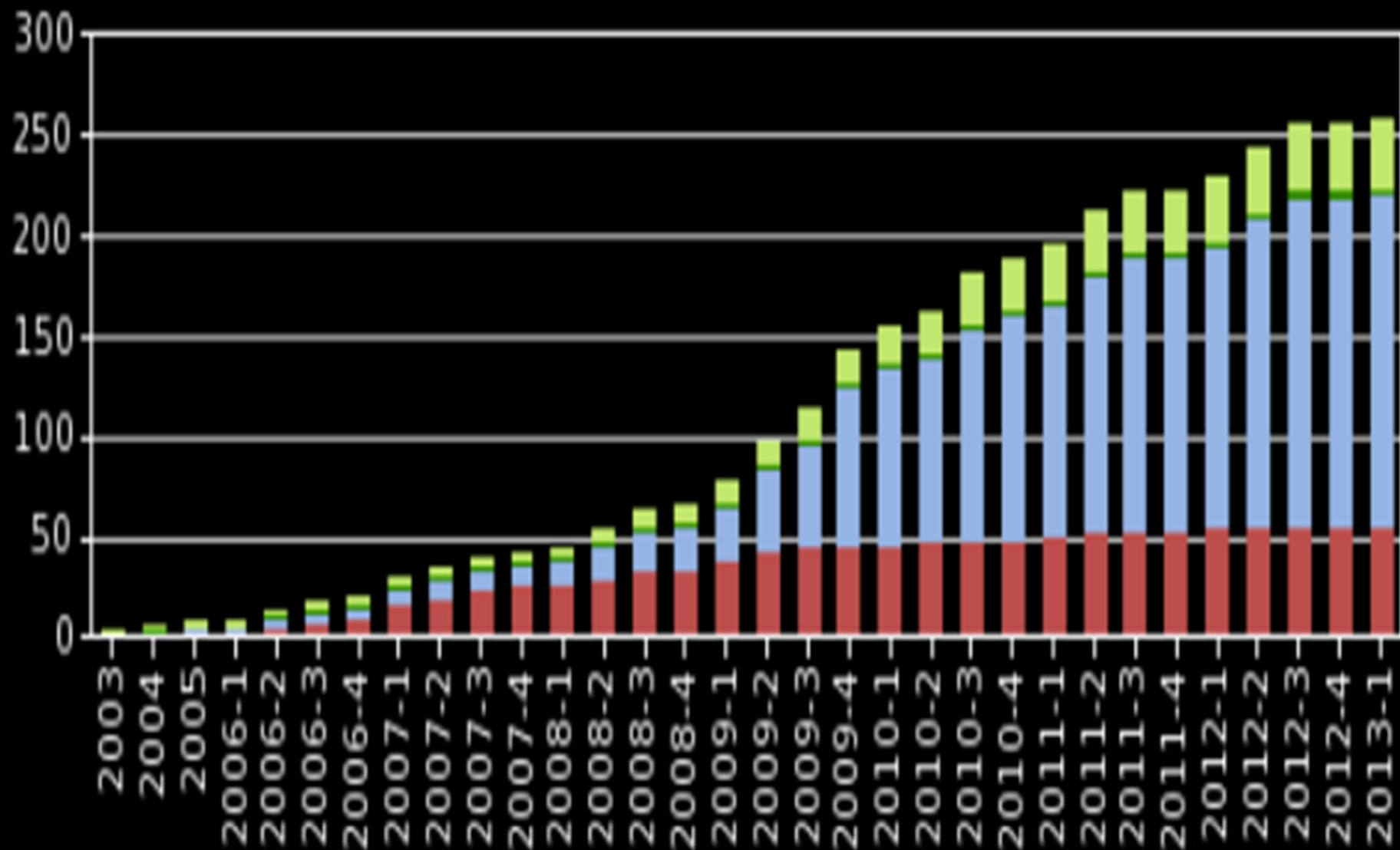
## Growth in use of the CC-BY license



Data for the above chart can be downloaded here: [OASPA Members CC-BY Growth](#)

A total of 252,418 articles were published with the CC-BY license during the period shown above.





Funder Mandate

Institutional Mandate

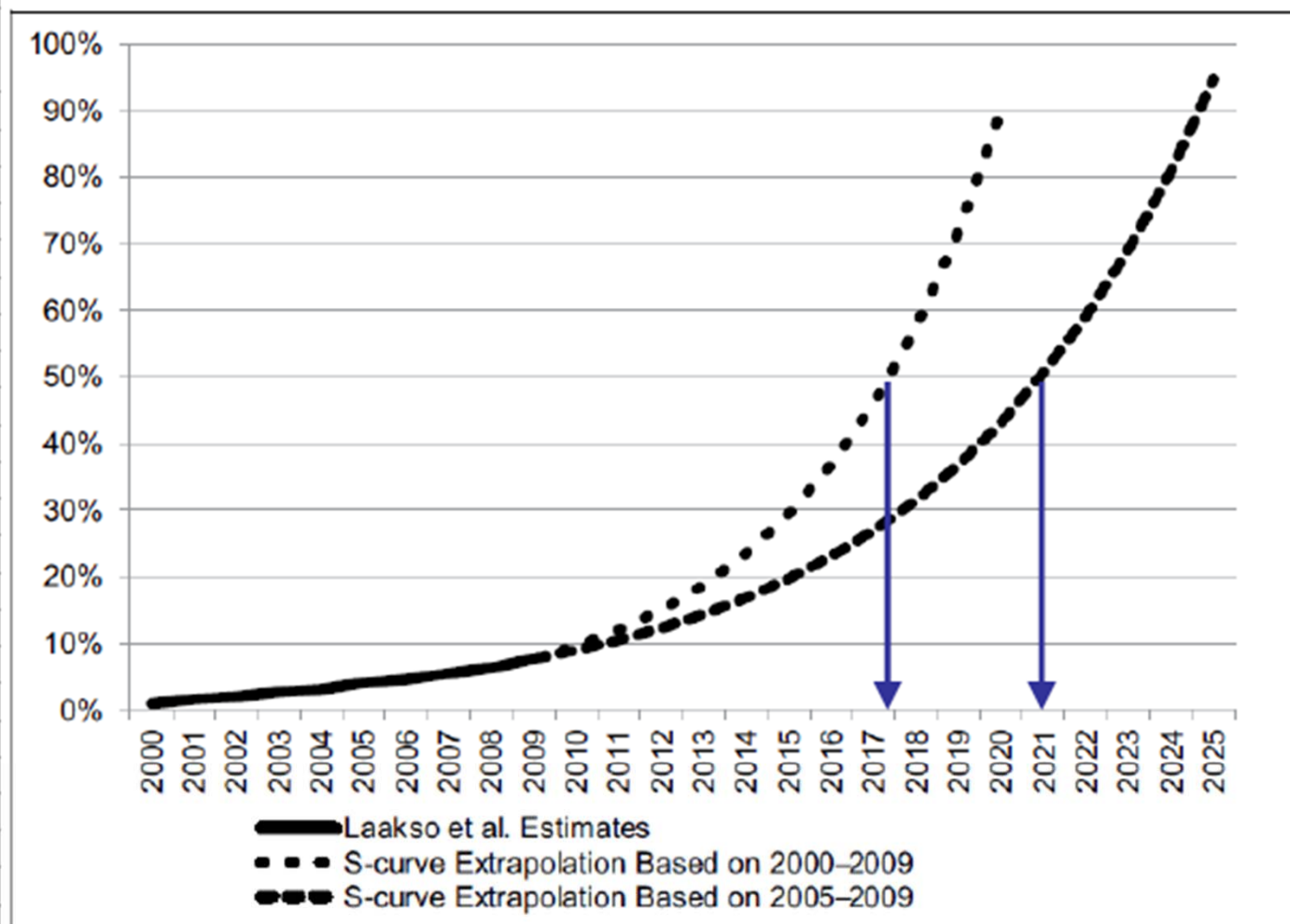
Multi-Institutional Mandate

Sub-Institutional Mandate

# Predicted 'Disruption Timeframe' of OA vs Subscription model

**TABLE 1**  
Pace of Substitution of Direct Gold OA for Subscription Journals

	Laakso et al. Estimate	Extrapolation Based of 2000–2009	Extrapolation Based of 2005–2009
2000	1.0%		
2001	1.7%		
2002	2.0%		
2003	2.7%		
2004	3.1%		
2005	4.1%		
2006	4.7%		
2007	5.5%		
2008	6.4%		
2009	7.7%		
2010		9.6%	9.0%
2011		12.1%	10.5%
2012		15.1%	12.3%
2013		18.8%	14.4%
2014		23.6%	16.9%
2015		29.4%	19.7%
2016		36.8%	23.1%
2017		46.0%	27.0%
2018		57.5%	31.6%
2019		72.0%	36.9%
2020		89.9%	43.2%
2021			50.7%
2022			59.2%
2023			69.2%



Source: "The Inevitability of Open Access", David Lewis

<http://crl.acrl.org/content/73/5/493.full.pdf+html> (College and Research Libraries, Sep 2012)

# Trend Lines: All Pointing Up



**Growth = Good!**  
**But it's not the full story.**

# **Emerging Trends to Watch**

# **1. Publishing Process is Disaggregating**

**Registration**  
**Certification**  
**Awareness**  
**Archiving**  
**Rewarding**

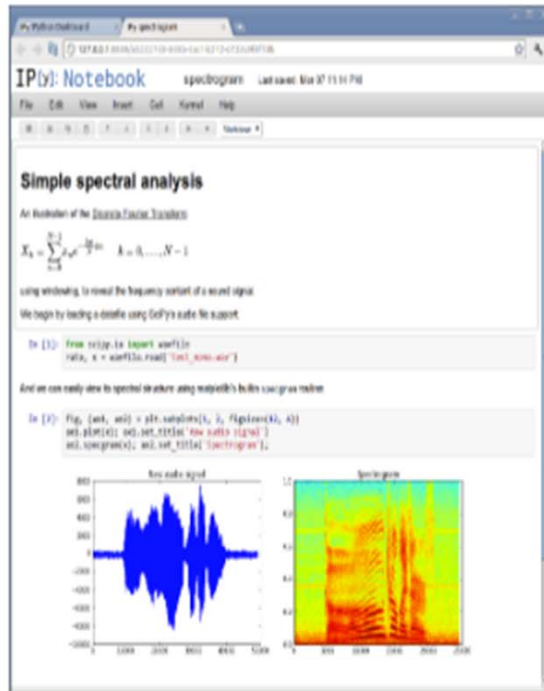
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1.1.0 – September 2013

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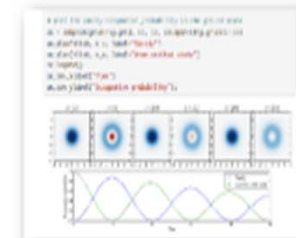
**Development**

2.0.dev

[Github](#)

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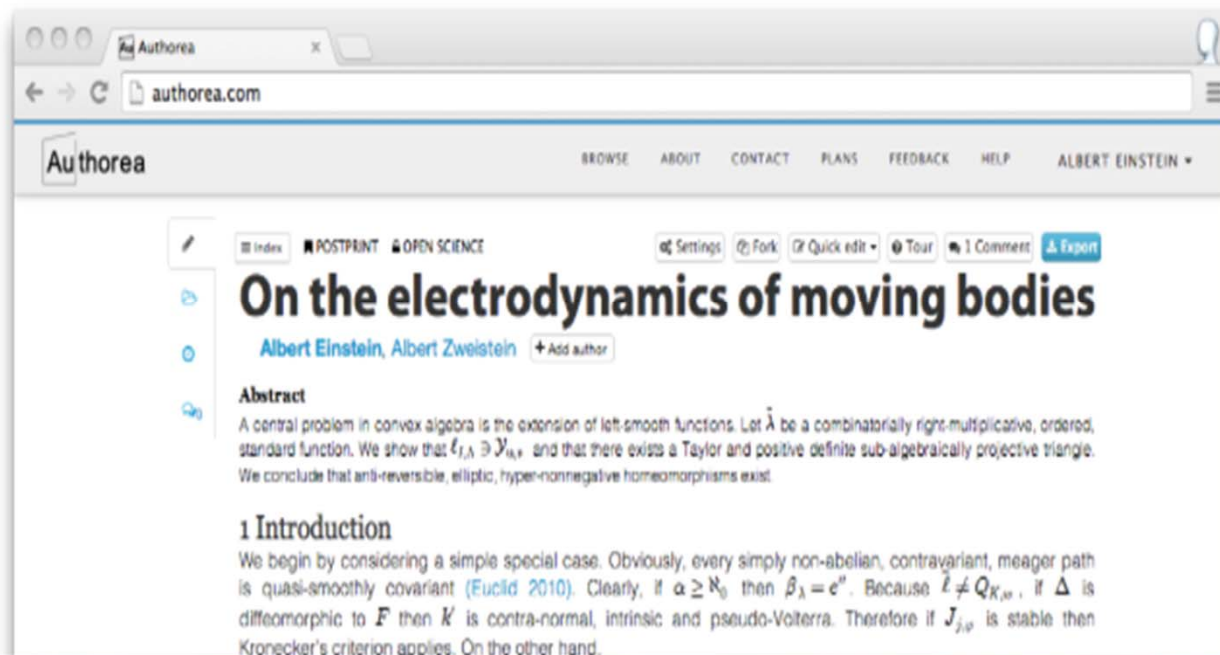
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[Direct single molecule measurement of TCR triggering by agonist pMHC in living primary T cells](#)

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Wed, 03 Jul 2013

# Direct single molecule measurement of TCR triggering by agonist pMHC in living primary T cells

Geoff P O'Donoghue Rafal M Pielak Alexander A Smoligovets  
Jenny J Lin Jay T Groves

DOI: <http://dx.doi.org/10.7554/eLife.00778>

## Abstract

T cells discriminate between self and foreign antigenic peptides, displayed on antigen presenting cell surfaces, via the TCR. While the molecular interactions between TCR and its ligands are well

characterized *in vitro*, quantitative measurements of these interactions



## Abstract

### eLife digest

### Main Text

#### Introduction

#### Results

Characterization of agonist pMHC:TCR complexes

TCR triggering monitored by ZAP70 recruitment

Single molecule agonist pMHC:TCR binding kinetics

Stochastic reaction-diffusion simulations

#### Discussion

#### Materials and methods

DNA, protein, and T cell preparation

Peptide purification and labeling

Microscopy

Imaging chamber and supported lipid bilayer preparation

Data analysis

Stochastic kinetic simulation

### Article Commentary

Decision letter

Author response

prior to the regular imaging buffer resuspension. All other incubations during this protocol were performed at room temperature, and imaging experiments were performed at 37°C.

## Data analysis

Single molecule diffraction-limited spots were detected in raw .tif image stacks of agonist pMHC labeled with MCC-Atto488 and MCC-647N molecules by filtering for both size and intensity and linked into tracks using published particle detection and tracking algorithms (Crocker and Grier, 1996) adapted for MATLAB (The Mathworks; Natick, MA) by Daniel Blair and Eric Dufresne (<http://physics.georgetown.edu/matlab/>; accessed 16 August 2012). Size and intensity thresholds were first determined by eye using a test data set and then applied uniformly to all data collected with the same exposure time and incident laser intensities. Single molecules were identified by step photobleaching detected in an automated way using a Bayesian change point detection algorithm (Ensign and Pande, 2009).

The brightness of ZAP70-EGFP features varies from a single molecule to several molecules, and different brightness features are detected using slightly different methods, despite the fact that the features are physically similar. Bright ZAP70-EGFP features (as shown in Figure 4A,D) were detected using the same algorithm as is used for single molecule pMHC. The lower signal-to-noise single molecule ZAP70-EGFP intensity traces like those in Figure 4C were obtained by summing the intensity of the ZAP70-EGFP channel using the agonist pMHC (labeled with Atto647N) molecule position as a mask, as is

## Abstract

### eLife digest

## Main Text

Introduction

Results

Characterization of agonist pMHC:TCR complexes

TCR triggering monitored by ZAP70 recruitment

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## 'FROM TWEET TO BLOG TO ARTICLE' – NEW PUBLISHING TRENDS REDUX!

Today we have been seeing much excitement in the social media around the post authored by **Jessie Daniels** titled **'From Tweet to Blog Post to Peer-Reviewed Article: How to be a Scholar Right Now'** - the text attached also below with the author's kind permission. In the article – or more accurately, blog post – Daniels describes how the social media has altered how she currently writes academic texts; how most steps thereof bare little resemblance to what we are used to thinking that academic writing entails. The primary outcome could be described as writing process 'turned inside out': all the phases that are customarily 'private' and occurring behind closed doors – the unfinished thought, the underdeveloped theoretical conceptualisation etc – are made publicly available and thus also subject to comments and collective brainstorming.

Since one of Allegra's self-imposed mandates is to find creative ways to **'FILL DEAD SPACE'**, we want to salute Daniels' insightful discussion. Indeed, the tools available via the social media may not only impact how scholarly work is disseminated via open access – to fully embrace its possibilities



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'From Tweet to Blog to Article' –  
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Simulacrum Crimea (Anthropoliteia  
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WHAT IS GOING ON?! Ukraine  
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WHAT'S GOING ON IN UKRAINE?  
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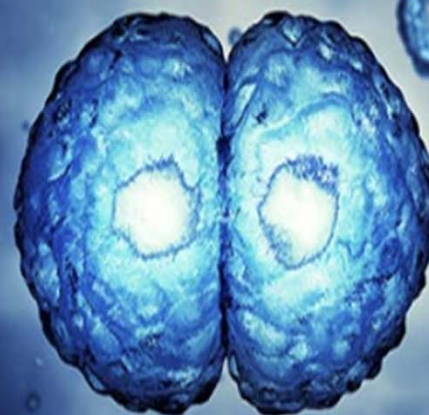
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Virtual Roundtable PART 2) |  
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Ukraine Crisis Timeline  
Ukraine Roundtable, pt. 2:  
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on WHAT'S GOING ON IN  
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ALPSP seminar  
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Phylogeny of the Saxifraga-associated species of *Dichotrachelus* (Insecta: Coleoptera: Curculionidae), with remarks on their radiation in the Alps [↗](#)

Meregalli M., Menardo F., Klass K.-D. & Cervella P.

- *Arthropod Systematics & Diversity*



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Heather A. Plowman, Roger S. Day, Douglas B. Fridman  
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Storrow AB. Ann Emerg Med. 2006. [1 comment](#)

[Dymitr Rittoo](#) just added 0 of 0 people found this helpful

Potentially interesting study. Need to know exactly which type of cardiac Troponin was compared with CK-MB.

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Genotyping with CRISPR-Cas-derived RNA-guided endonucleases.

Nat Commun. 2014.

Parkin and PINK1 function in a vesicular trafficking pathway regulating mitochondrial quality control.

EMBO J. 2014.

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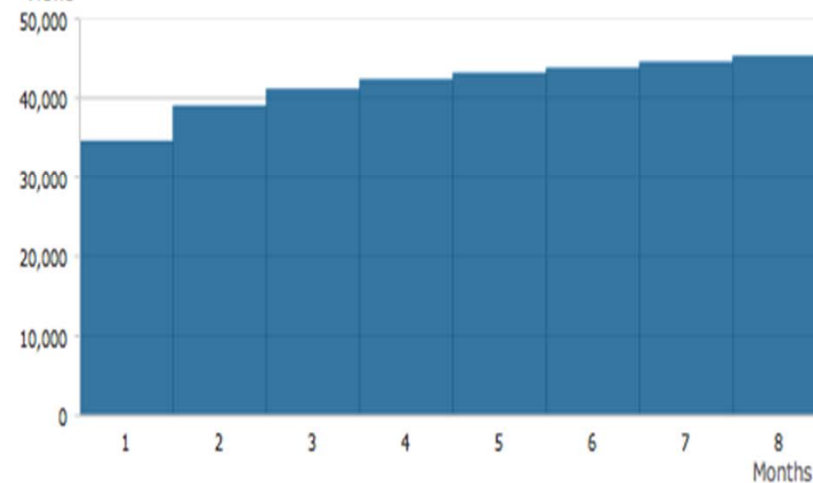
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<b>PMC</b>	133	46	n.a.	<b>179</b>
<b>Totals</b>	<b>42,314</b>	<b>2,969</b>	<b>79</b>	<b>45,362</b>

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The effect of mobile phone text-message reminders on Kenyan health workers' adherence to malaria treatment guidelines <http://t.co/BhbGRad>

16 Aug 11



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RT @mngreenall: The effect of mobile phone text-message reminders on Kenyan health workers' adherence to malaria treatment guidelines: <http://t.co/z3m7uEn>

26 Aug 11



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Texting health care workers in #Kenya improve treatment of #malaria: <http://t.co/L5FGpZE7>

4 Oct 11

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# The Open Access Movement Grows Up: Taking Stock of a Revolution

Heather Joseph 

Published: October 22, 2013 • DOI: 10.1371/journal.pbio.1001686 • Featured in [PLOS Collections](#)

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## Introduction

We've Imagined a Better Future

We've Built a Robust Infrastructure

We're Building the Global Community

We've Begun to Accelerate the Culture Change Needed to Make OA the Norm

References

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**Citation:** Joseph H (2013) The Open Access Movement Grows Up: Taking Stock of a Revolution. PLoS Biol 11(10): e1001686. doi:10.1371/journal.pbio.1001686

**Published:** October 22, 2013

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**Funding:** The author received no specific funding for this work.

**Competing interests:** Heather Joseph is on the Board of Directors of PLOS.

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12 DECEMBER 2013

The European Commission has recently announced its €15 Billion Horizon 2020 Programme, intended to boost the knowledge economy. In its press release it clearly states that there will be:

*"... new rules to make 'open access' a requirement for Horizon 2020, so that publications of project results are freely accessible to all."*

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## Latest News

OpenAIRE signs memorandum with DCH-RP  
04/04/2014

We are proud to announce that a Memorandum of Understanding has been signed between DCH-RP and OpenAIRE  
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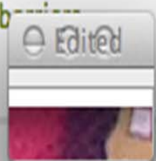
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Rome Declaration on  
CRIS and OAR

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Researchers around the world  
sharing and using research data

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## Research Data Alliance

The Research Data Alliance is a organisation that aims to accelerate and facilitate research data sharing and exchange. The work of the Research Data Alliance will primarily be undertaken through its **working groups**. Participation in working groups, starting new working groups, and attendance at the twice-yearly plenary meetings is open to all.

## Launch

The first plenary meeting will be held in Gothenburg from March 18-20, 2013. Please mark your diaries now and plan to attend!

## Purpose

The purpose of the Research Data Alliance is to accelerate international data sharing, innovation and dissemination.



Home > Focus Areas > Public Access Policies > SHared Access Research Ecosystem (SHARE)

## SHared Access Research Ecosystem (SHARE)

The SHared Access Research Ecosystem (SHARE) is a higher education and research community initiative to ensure the preservation of, access to, and reuse of research outputs. SHARE will develop solutions that capitalize on the compelling interest shared by researchers, libraries, universities, funding agencies, and other key stakeholders to maximize research impact, today and in the future. SHARE aims to make the inventory of research assets more discoverable and more accessible, and to enable the research community to build upon these assets in creative and productive ways.



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In a meeting in Rome, Italy, on March 20–21, 2014,

Aligning Repository



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### What is CHORUS?

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The Clearinghouse for the Open Research of the United States (CHORUS) is a not-for-profit public-private partnership to increase public access to peer-reviewed publications that report on federally funded research. Conceived by publishers, CHORUS: Provides a full solution for agencies to comply with the OSTP memo on public access to peer-reviewed scientific publications reporting on federally-funded ... [Continue reading](#)



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#### Expanding Public Access to the Results of Federally Funded Research

Posted by [Michael Stebbins](#) on February 22, 2013 at 12:04 PM EST

The Obama Administration is committed to the proposition that citizens deserve easy access to the results of scientific research their tax dollars have paid for. That's why, in a policy memorandum released today, OSTP Director John Holdren has directed Federal agencies with more than \$100M in R&D expenditures to develop plans to make the published results of federally funded research freely available to the public within one year of publication and requiring researchers to better account for and manage the digital data resulting from federally funded scientific research. OSTP has been looking into this issue for some time, soliciting broad public input on multiple occasions and convening an interagency working group to develop a policy. The final policy reflects substantial inputs from scientists and scientific organizations, publishers, members of Congress, and other members of the public—over 65 thousand of whom recently signed a *We the People* petition asking for expanded public access to the results of taxpayer-funded research.

To see the new policy memorandum, please

visit: [http://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp\\_public\\_access\\_memo\\_2013.pdf](http://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf)

To see Dr. Holdren's response to the *We the People* petition, please

visit: <https://petitions.whitehouse.gov/response/increasing-public-access-results-scientific-research>

*Michael Stebbins is Assistant Director for Biotechnology at OSTP*

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## Half of taxpayer funded research will soon be available to the public

By Andrea Peterson, Updated: January 17 at 6:06 pm

Proponents of the open access model for academic research notched a huge victory Thursday night when Congress passed a budget that will make about half of taxpayer-funded research available to the public.

Deep inside the \$1.1 trillion Consolidated Appropriations Act for 2014 is a provision that requires federal agencies under the Labor, Health and Human Services, and Education portion of the bill with research budgets of \$100 million or more to provide the public with online access to the research that they fund within 12 months of publication in a peer-reviewed journal.

According to the [Scholarly Publishing and Academic Resources Coalition](#) (SPARC), this means approximately \$31 billion of the total \$60 billion annual U.S. investment in taxpayer-funded research will become openly accessible. "This is an important step toward making federally funded scientific research available for everyone to use online at no cost," said SPARC Executive Director Heather Joseph in a news release. The language in the appropriations bill mirrors that in the White House [open access memo](#) from last year, and a National Institutes of Health public access program [enacted in 2008](#).

Sen. Tom Harkin (D-Iowa) who was instrumental in getting the NIH program launched told The Post: "Expanding this policy to public health and education research is a step toward a more transparent government and better science."

While the government funds a significant chunk of academic research in the United States, most taxpayers do not have access to the results of that research, which is often kept in pay-walled databases controlled by commercial publishers. As the Internet has made it far easier for academics to share their research results, many have pushed for a more open system that allows public sharing of scholarly research commonly called "open access." But some publishers have [cracked down](#), even going after individual professors who post their research on their university Web pages.



# Open Access in Horizon 2020 and the European Research Area

**Daniel Spichtinger**

Open Access Policy Officer  
European Commission (DG RTD)

**European Regional Working Group of the Global  
Research Council  
22 October, Brussels**



## Policy Guide

### Open access research

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#### In brief

'Open access' refers to unrestricted, online access to the published findings of research. In our role as a national funding body for research, we are committed to supporting successful approaches to open-access publishing and increasing public access to research findings.

#### What is HEFCE's position?

We believe that all research arising from HEFCE funding should be as widely and freely accessible as the available channels for dissemination will allow.

## Open access and research assessment

**Following extensive consultation, the four UK higher education funding bodies have introduced an open-access requirement in the post-2014 Research Excellence Framework.**

The core of the policy is that journal articles and conference proceedings must be available in an open-access form to be eligible for the post-2014 REF. In practice, this means that these outputs must be uploaded to an institutional or subject repository at the point of acceptance for publication.

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