



eLIFE

Mark Patterson
SPARC Japan Seminar, August 23rd, 2012

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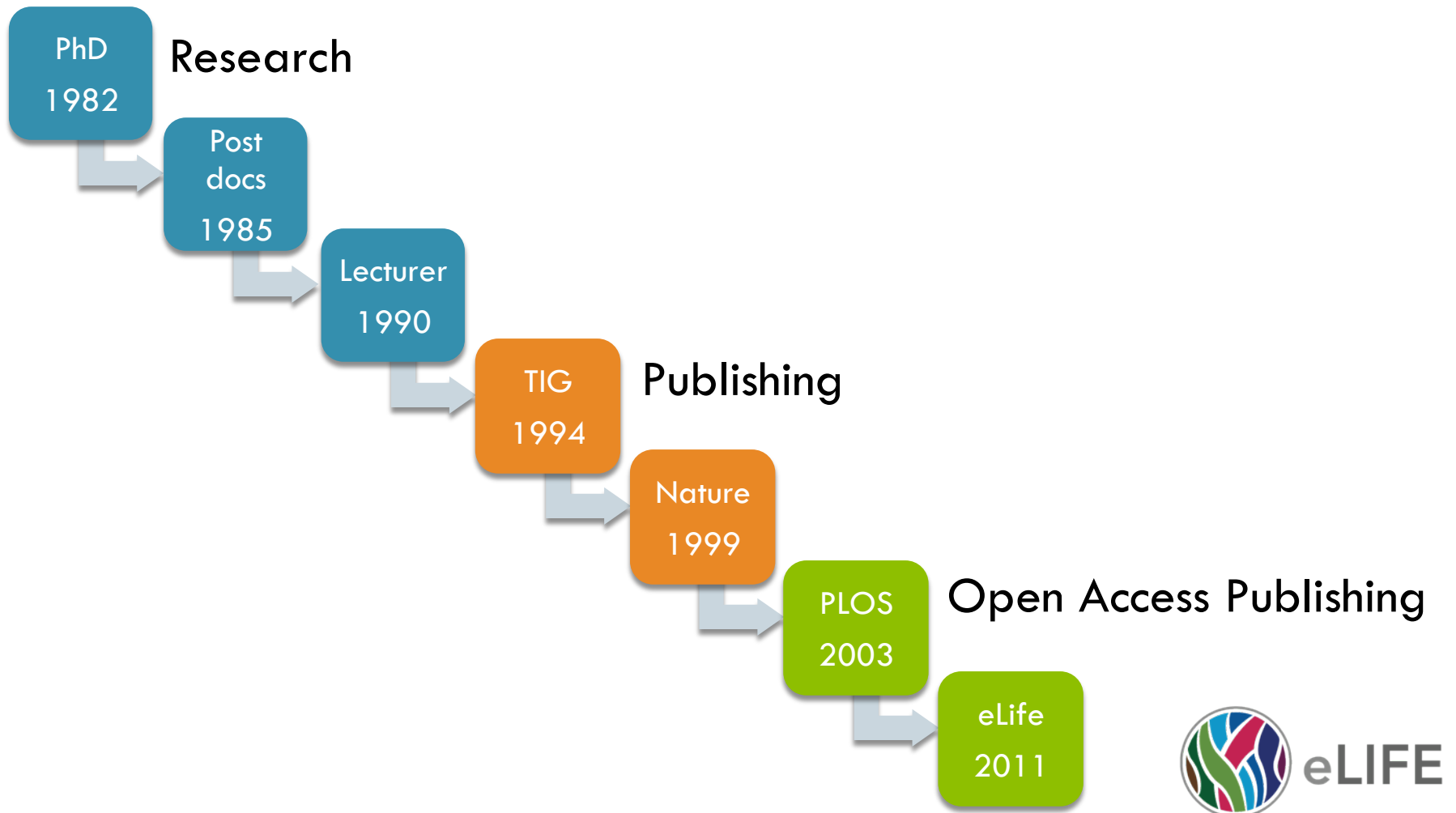
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Outline

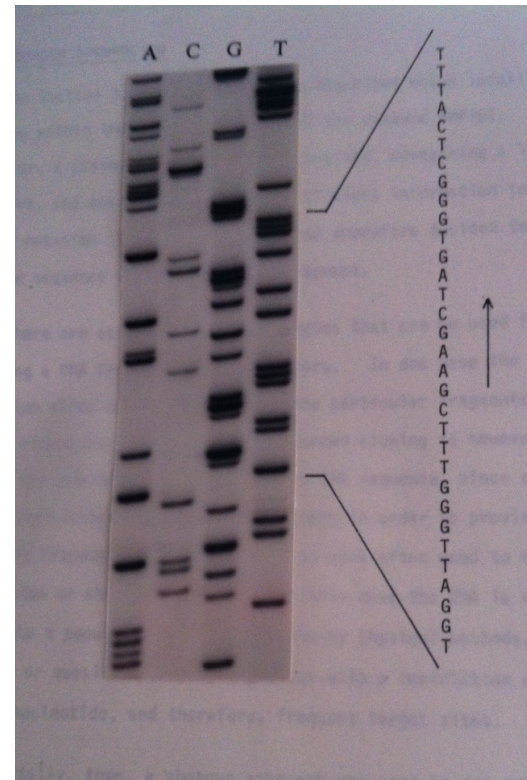
- Brief biography
- Open access policy context
- eLife
 - Motivations
 - How will it work?
 - Progress to date

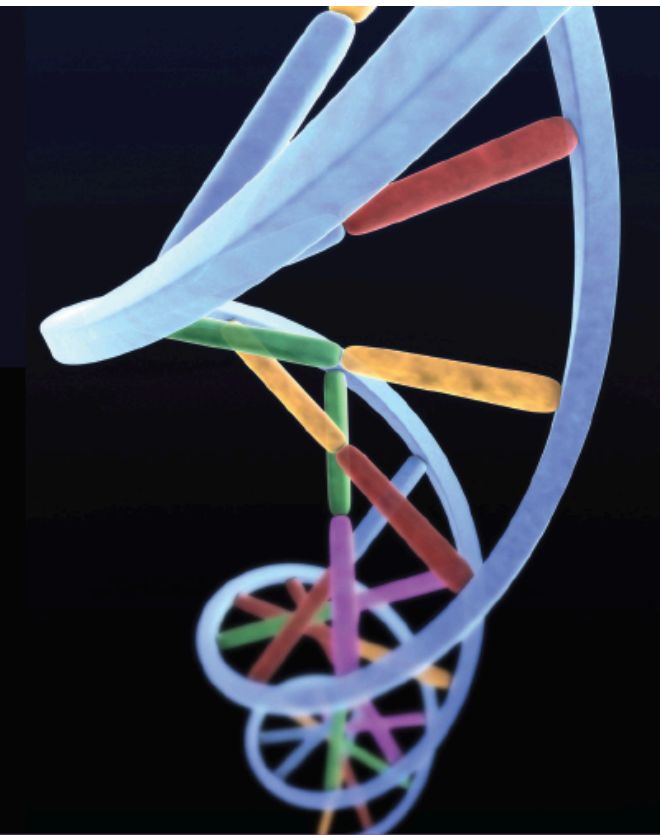
Career path



A memorable moment

- Sequencing in Manchester
- Sequence comparison in London





Economic Impact of the Human Genome Project

How a \$3.8 billion investment drove \$796 billion in economic impact, created 310,000 jobs and launched the genomic revolution

Prepared by Battelle Technology Partnership Practice
May 2011



Home > Science Magazine > 23 March 2001 > Roberts et al. , pp. 2318 - 2319

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Science 23 March 2001:
Vol. 291, no. 5512, pp. 2318 - 2319
DOI: 10.1126/science.1060273

< Prev | Table of Contents | Next >

March 23rd, 2001

VIEWPOINTS

INFORMATION ACCESS: Building A "GenBank" of the Published Literature

Richard J. Roberts,^{*} Harold E. Varmus, Michael Ashburner, Patrick O. Brown,[†] Michael B. Eisen, Chaitan Khosla, Marc Kirschner, Roel Nusse,[†] Matthew Scott,[†] Barbara Wold

To encourage community dialog about proposals that affect the scientific community, two viewpoints are presented regarding a controversial development in scientific publishing, the formation of a central archive of scientific literature. [Roberts et al.](#) believe that if journals make their scientific content freely available at PubMedCentral 6 months after publication researchers will be able to make the most effective use of the literature. The [Editors of Science](#) believe that there are other alternatives that may serve the scientific community as well or better without endangering scientific journals.

R. J. Roberts, New England Biolabs, Beverly, MA 01915, USA. H. E. Varmus, Memorial Sloan-Kettering Cancer Center, New York, NY 10021, USA. M. Ashburner, University of Cambridge, CB2 3EH, UK, and EMBL-European Bioinformatics Institute, Cambridge, CB10 1SD, UK. P. O. Brown, Stanford University School of Medicine, Stanford, CA 94305, USA. M. B. Eisen, Lawrence Berkeley National Laboratory, Berkeley, CA 94720, and University of California, Berkeley, CA 94720, USA. C. Khosla, Stanford University, Stanford, CA 94305, USA. M. Kirschner, Harvard Medical School, Boston, MA 02115, USA. R. Nusse and M. Scott, Stanford University School of Medicine, B. Wold, Biology Division, California Institute of Technology, Pasadena, CA 91125, USA.

^{*}To whom correspondence should be addressed. E-mail: roberts@neb.com

[†][Howard Hughes Medical Institute investigator.](#)

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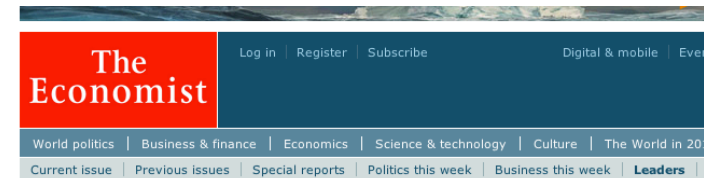
>

Free
access

Recent policy developments

UK – part 1

- Support at the highest levels of government
- *“The Government believes that published research material which has been publicly financed should be publicly accessible – and that principle goes well beyond the academic community”*
- David Willetts, Minister of State, Universities and Science



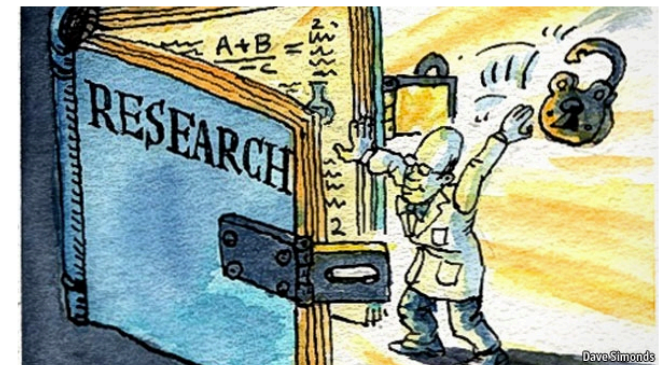
Academic publishing

Open sesame

When research is funded by the taxpayer or by charities, the results should be available to all without charge

Apr 14th 2012 | from the print edition

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PUBLISHING obscure academic journals is that rare thing in the media industry: a licence to print money. An annual subscription to *Tetrahedron*, a chemistry journal, will cost your university library \$20,269; a year of the *Journal of Mathematical Sciences* will set you back \$20,100. In 2011 Elsevier, the biggest academic-journal publisher, made a profit of £768m (\$1.2 billion) on revenues of £2.1 billion. Such margins (37%, up from 36% in 2010) are possible because the journals' content is largely provided free by researchers, and the academics who peer-review their papers are usually unpaid volunteers. The journals are then sold to the very universities that provide the free content and labour. For publicly funded research, the result is that the academics and taxpayers who were responsible for its creation have to pay to read it. This is not merely absurd and unjust; it also hampers education and research.

UK – part 2

- Finch – strong support for OA publishing, supported by publication fees
- Wellcome – strengthened policy, emphasizing most liberal license (CC-BY) plus sanctions for non-compliance
- Research Councils UK – strengthened policy, with support for payment of publication fees





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Europe and US

- Support in Europe
 - European Commission makes OA a “general principle” of Horizon 2020 - €80billion programme in research and innovation.
 - “We need Open Access to scientific information” (Neelie Kroes, Vice-President of the European Commission responsible for the Digital Agenda)
- Support in the US
 - Research Works Act - withdrawn
 - Petition calling for OA received over 29k signatures
 - Federal Research Public Access Act reintroduced



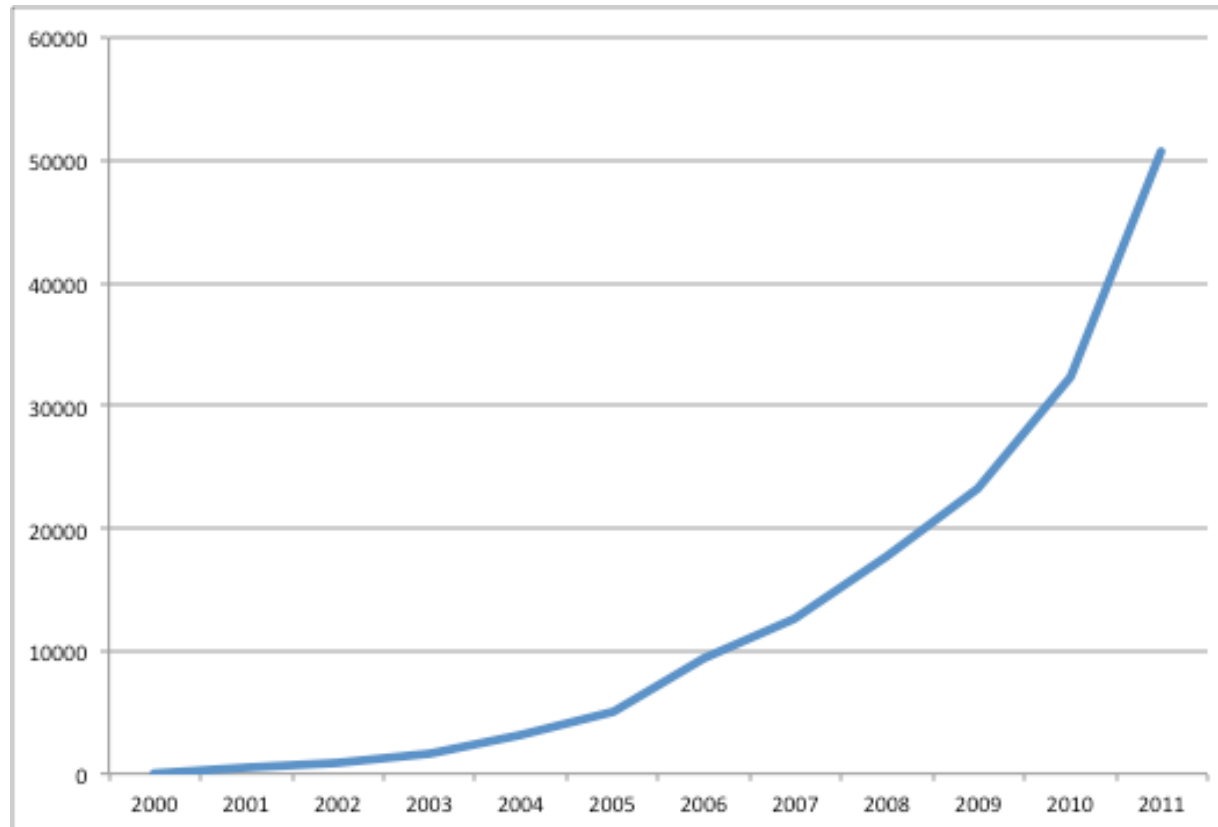
eLIFE

What is eLife?

- A **collaboration** between funders and the research community to improve research communication
- A **researcher-led** digital publication for outstanding work across the life sciences
- A platform to **maximize the reach and influence** of new research and to **showcase new approaches** for the presentation and assessment of research

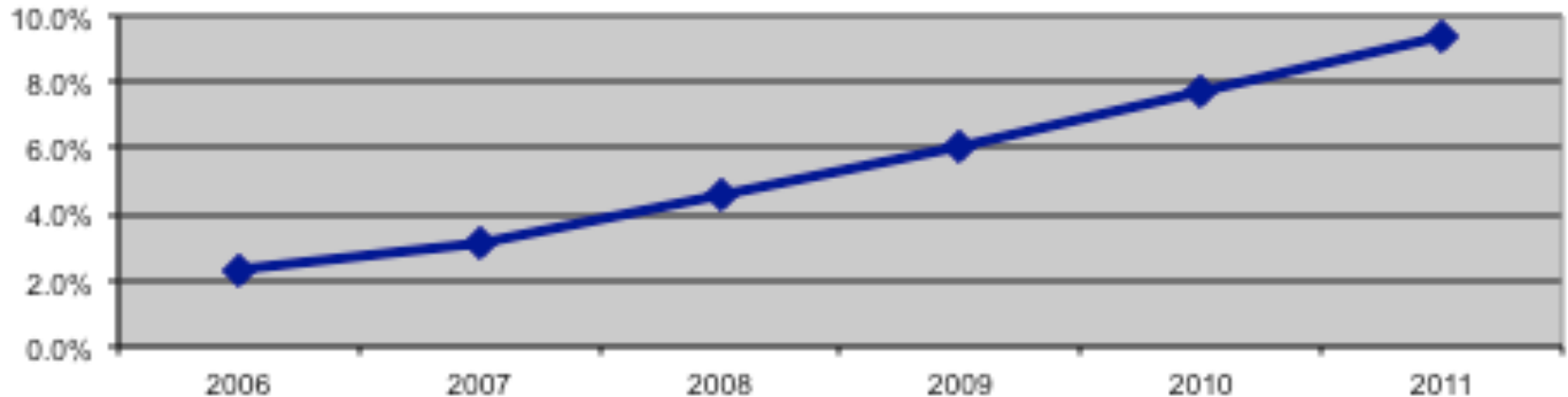
Motivations

Growth of OA



Publications
BMC
PLoS
Hindawi

Motivation 1 – drive OA



%PubMed available as open access in PMC

Motivation 2 – reform peer review

End the wasteful tyranny of reviewer experiments



Peer review of scientific papers in top journals is bogged down by unnecessary demands for extra lab work, argues Hidde Ploegh.

nature

Martin Raff, Alexander Johnson
- and Peter Walter

Science

"The stress associated with publishing experimental results...can drain much of the joy from practicing science."

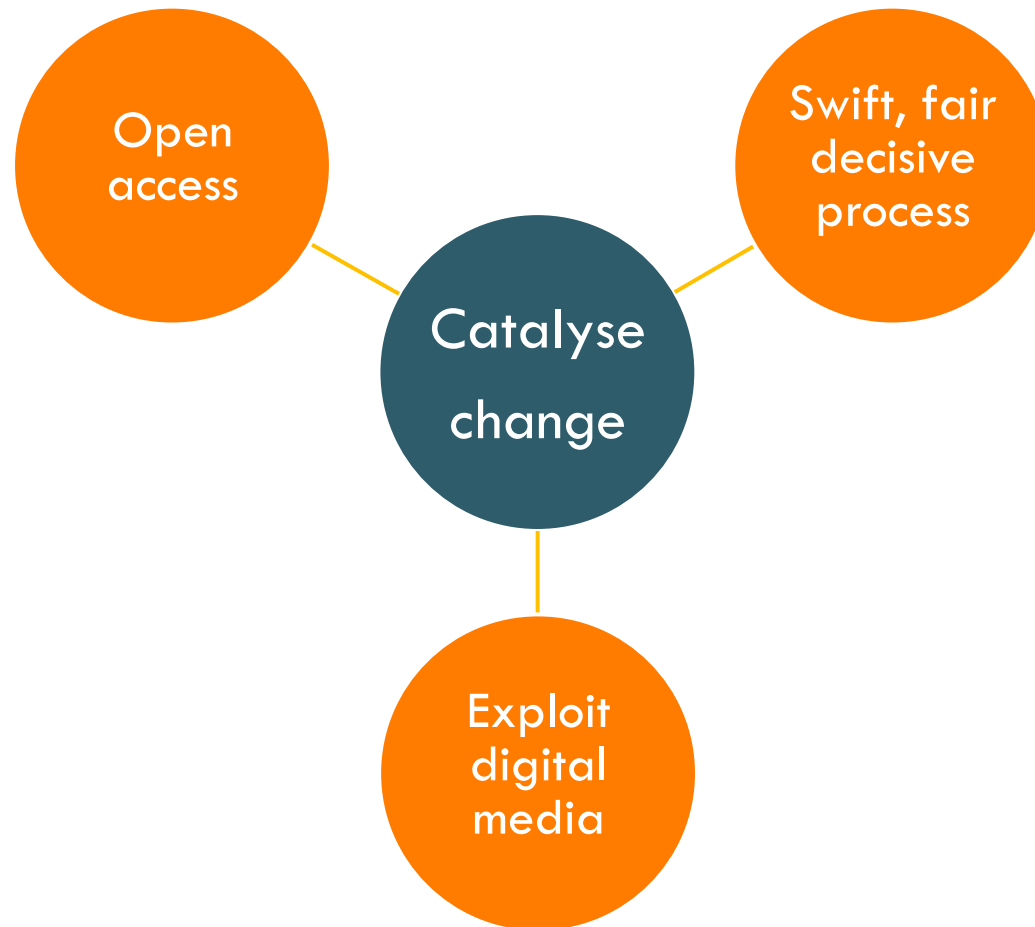
Motivation 3 – digital first



- Presentation of new research often limited by the print edition
- Time to put digital first

http://www.fybridphotos.com/objects_stock_photo_1130183.html

eLife – goals



How will eLife work?

eLife – scope

- **BROAD**

From basic and theoretical work to translational, applied and clinical research.

- **SELECTIVE**

Highly influential work that advances understanding, opens new doors or has real-world impacts.

World-class backing

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- Effective research communication is a critical part of research
- Editorially, eLife is entirely independent of the funders



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- 2 Deputy eds
- 17 Senior eds
- Board of reviewing eds
~180

Editorial Leadership

Members of the eLife Editorial Team

Click a portrait to view the individual's bio. Missing bios are on the way!



Randy Schekman



Detlef Weigel



Fiona Watt



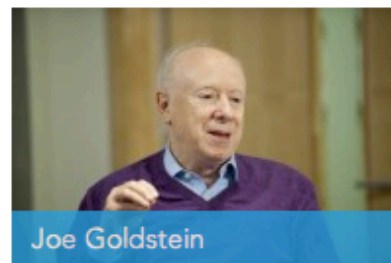
Stylianos Antonarakis



Ian Baldwin



Catherine Dulac

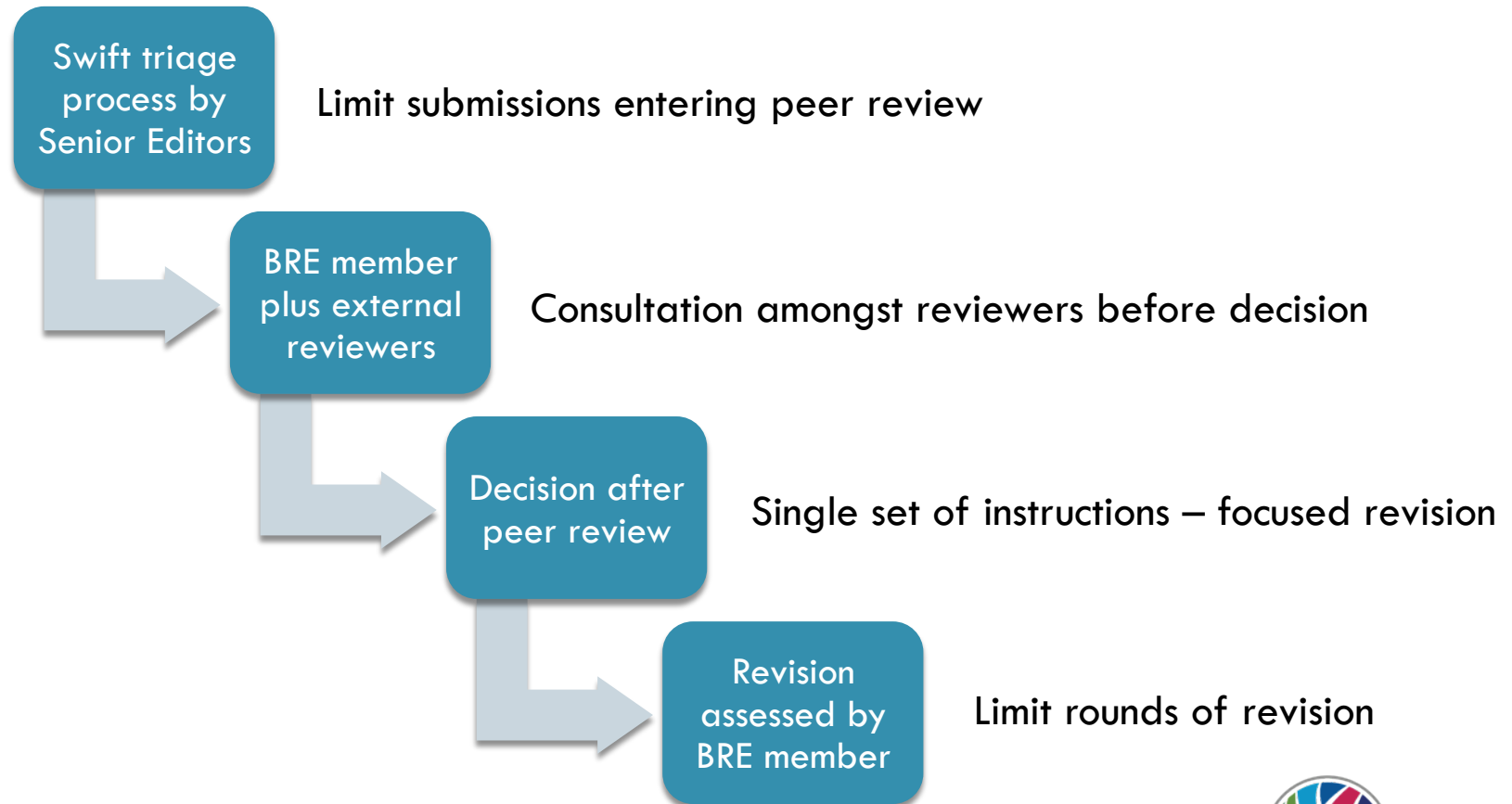


Joe Goldstein



Tony Hunter

The eLife editorial process



Charter for Authors

eLife is run by editors who are leading researchers, who understand the needs (and frustrations) of their peers in disseminating their results, and who are acutely aware of the benefits of a positive publishing experience for graduate students and post-docs. Our charter for authors demonstrates our commitment to serving author interests – particularly those of early-career researchers – throughout and beyond the publishing process.

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Background

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Charter for Authors

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- **Results will be available for free** immediately on publication
- Users will have the right to **use results freely**, providing full author attribution (Creative Commons-Attribution license)
- All content will also be deposited in PubMed Central

Initially - also free of publication fees

Making supplementary files usable

normal sensitivity to EGTA block of exocytosis (Fig. 4d) unable to rescue the decrease in exocytosis resulting from data are consistent with the ability of this mutation to be functioning. Taken together, these results demonstrate function through at least two separate molecular mechanisms

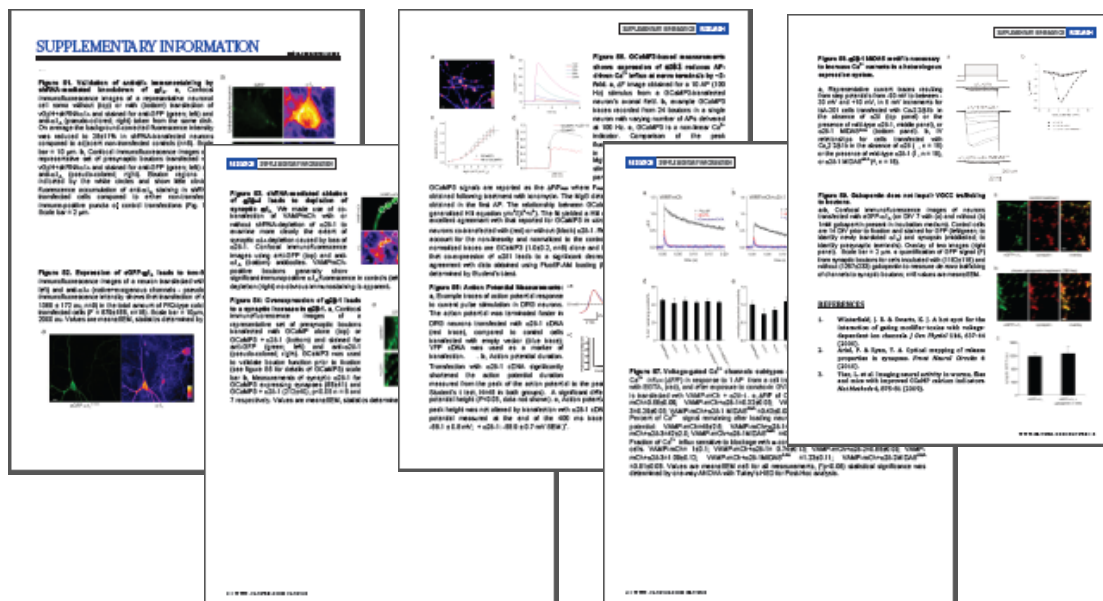
Supplementary information

Main • Methods • References • Acknowledgements • Author Information • Supplementary Information

PDF files

1. Supplementary Information (828K)

This file contains Supplementary Figures 1-9 and Supplementary References.





“A great deal of data has become detached from the published conclusions that depend upon it, such that the two vital complementary components of the scientific endeavour - the idea and the evidence - are too frequently separated.”

You are here: [Home](#) / [Statistics](#) / [OECD Factbook](#) / [2012](#) / Total biotechnology R&D expenditures in the business sector

OECD Factbook

Science and technology

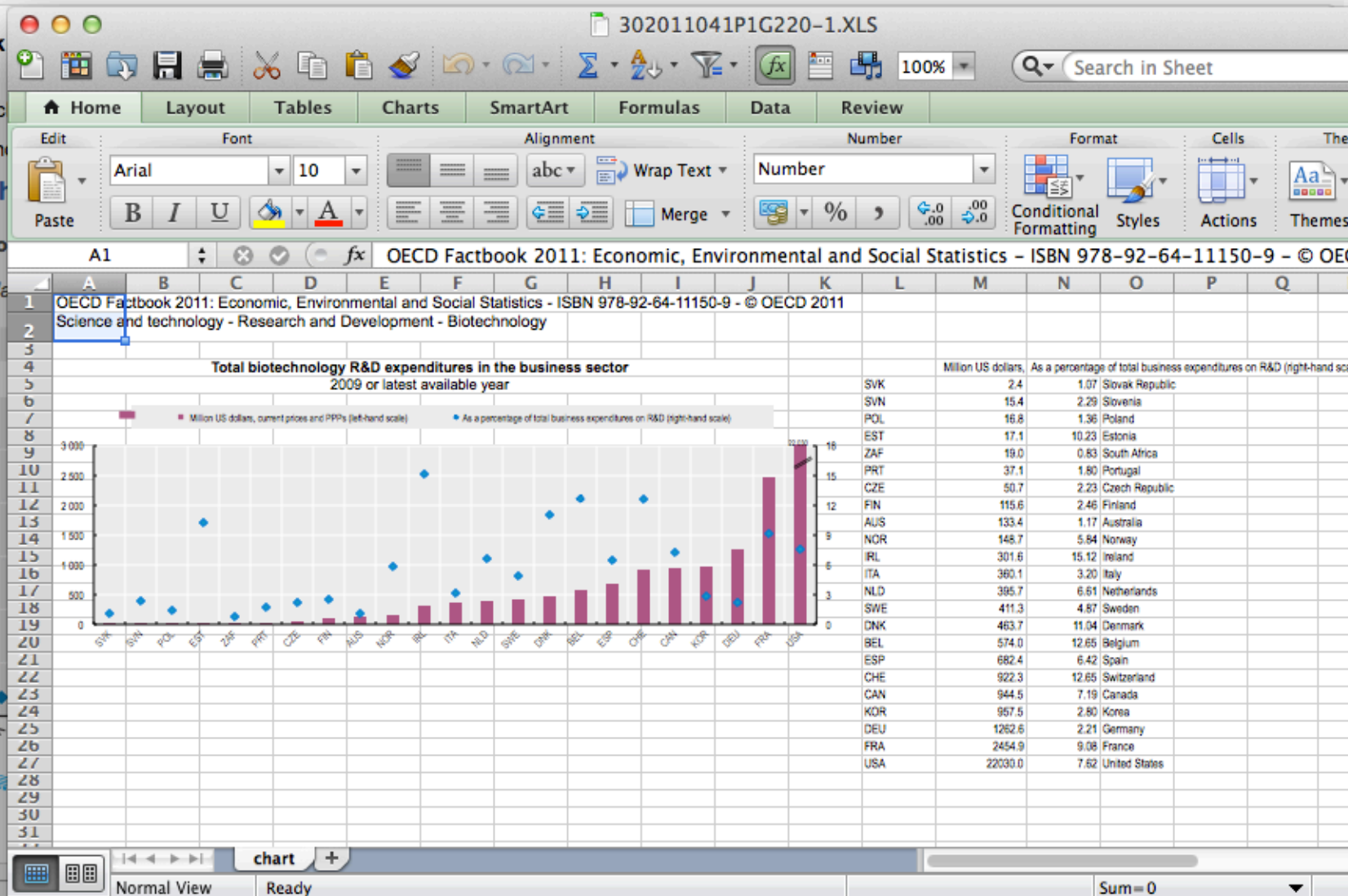
Research and development

Biotechnology

Total biotechnology R&D expenditures in the business sector

2009 or latest available year

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As of Jul 4, 2012, Dryad contains **1771 data packages** and **4554 data files**, associated with articles in **139 journals**.

Recent Posts from the Dryad Blog

- [BMJ Editorial: Open Science and Reproducible Research](#)
- [The Dryad June 2012 Newsletter: Lots of news, and a new format](#)
- [Stakeholder governance](#)

Recently Published Data

Deitz K, Athrey G, Reddy M, Overgaard H, Matias A, Musa J, della Torre A, Petrarca V, Pinto J, Kiszewski A, Kengne P, Costantini C, Caccone A, Slotman M (2012) Data from: Genetic isolation within the malaria mosquito *Anopheles melas*. *Molecular Ecology* doi:10.5061/dryad.d15d4

Pravosudov V, Roth II T, Forister M, LaDage L, Burg T, Braun M, Davidson B (2012) Data from: Population genetic structure and its implications for adaptive variation in memory and the hippocampus on a continental scale in food-caching black-capped chickadees. *Molecular Ecology* doi:10.5061/dryad.5p6b1

Ansmann I, Parra G, Lanyon J, Seddon J (2012) Data from: Fine-scale genetic population structure in a mobile marine mammal: inshore bottlenose dolphins in Moreton Bay, Australia. *Molecular Ecology* doi:10.5061/dryad.h27b3

Weisrock DW (2012) Data from: Concordance analysis in mitogenomic phylogenetics. *Molecular Phylogenetics and Evolution* doi:10.5061/dryad.8d3r7

Floudas D, Binder M, Riley R, Barry K, Blanchette RA, Henrissat B, Martínez AT, Ortillar R, Spatafora JW, Yadav JS, Aerts A, Benoit I, Boyd A, Carlson A, Copeland



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In the event of acceptance, this text/information will be published: enter it accurately, carefully and completely.

Did your work generate any major datasets (e.g., DNA sequence data, clinical trial data, field data)? *

☒ Yes ☐ No

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Author(s)	Year	Dataset Title *	Dataset ID or DOI	License and Accessibility Information *	
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[More Datasets](#)Were the data collected and reported according to any specific community reporting standards, such as those described in the [EQUATOR Network](#) for health-related research, the [ARRIVE guidelines](#) for animal research, or the [MIBBI Portal](#) for bioscience research? *☐ Yes ☐ No

Did your work use any previously published major datasets (e.g., DNA sequence data, clinical trial data, field data)? *

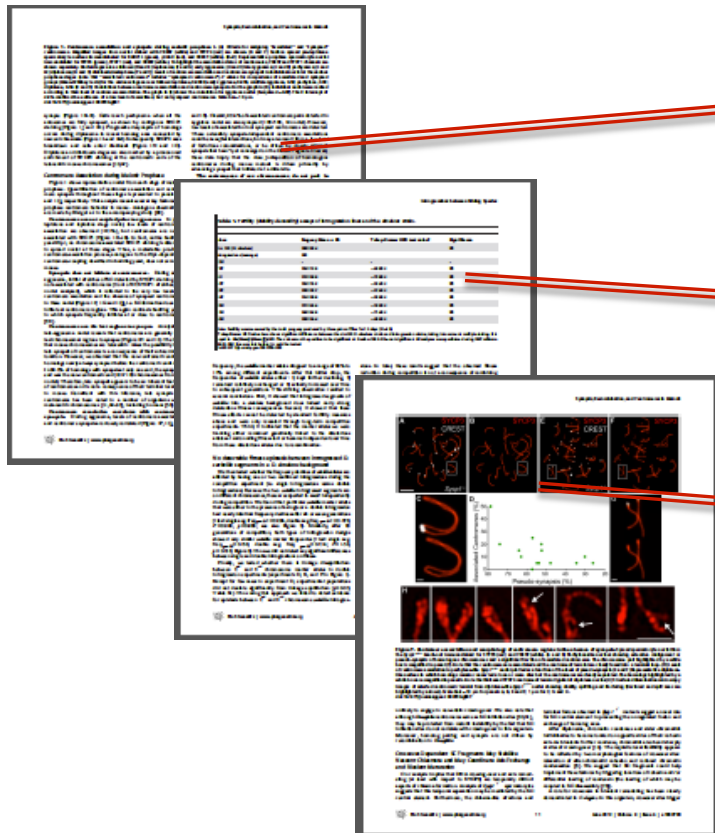
☐ Yes ☐ No**Ethics ***

Did your work involve human subjects?

☐ Yes ☐ No

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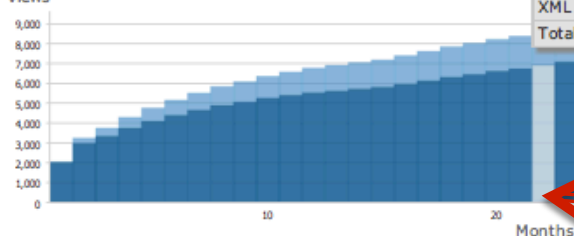
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PMC	1,019	664	n.a.	
Totals	6,231	2,461	65	

	Views in Mar '12	Total since Jun 17 '10
Source	PLoS PMC	PLoS PMC
HTML	140 31	5,091 1,019
PDF	39 9	1,761 664
XML	1 n.a.	64 n.a.
Total	180 40	6,916 1,683

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26	33	15	42	Search

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Published in the [June 2010 Issue of PLoS Genetics](#)

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- Great design and reading experience
- Source data
- Content in multiple locations
- Accessible for computation
- Article metrics

Progress update

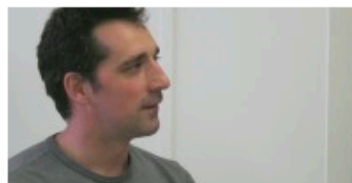
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Members of eLife's Executive Staff

Click a portrait to view the individual's bio. Missing bios are on the way!



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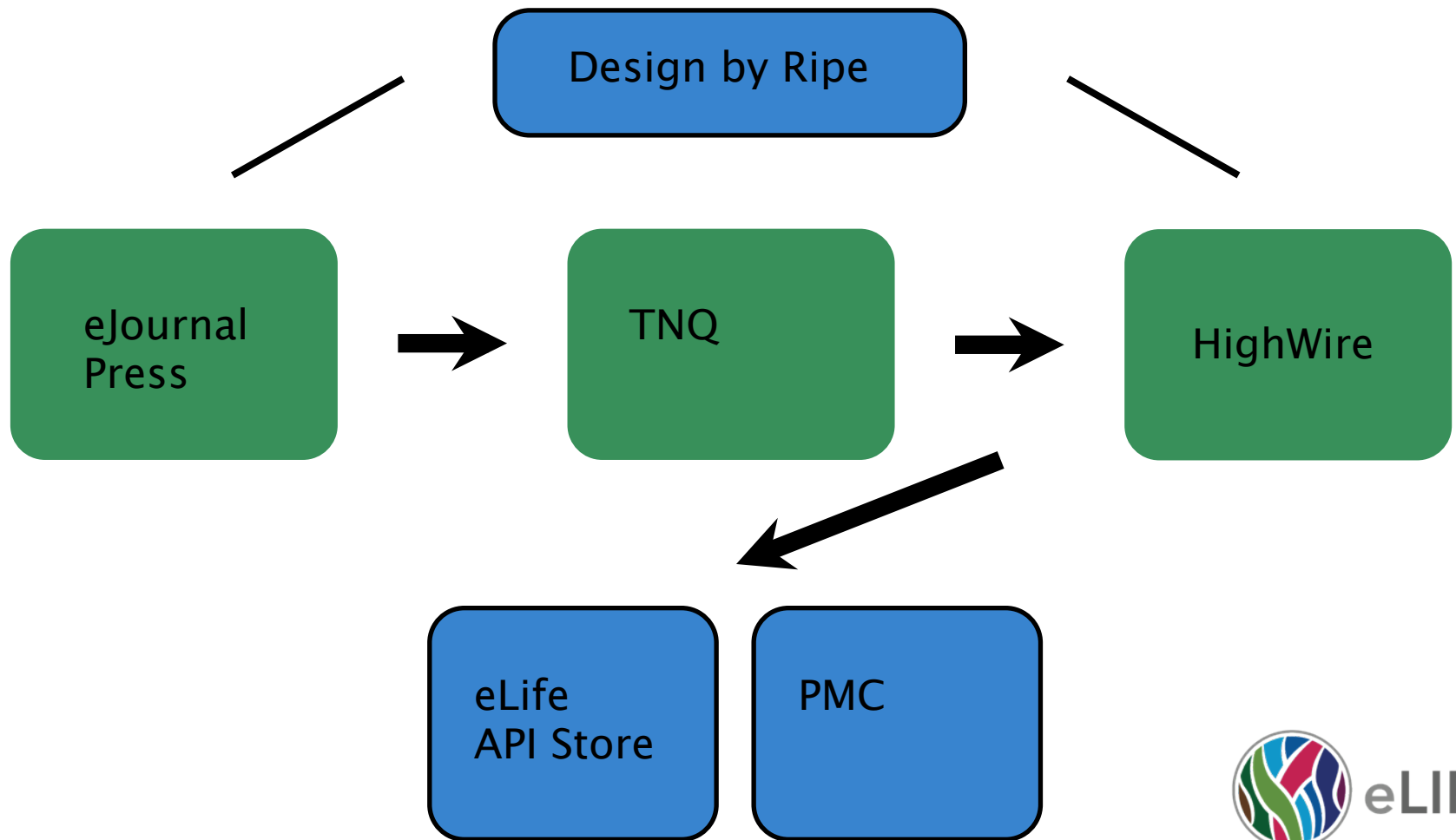
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Multicellularity Driven by Bacteria

MONTREAL, CANADA—When taking a dip this summer you will probably swallow tens, to purge the sample of everything but the plankton itself. When Zuzow added anti-cytoplasmic choanoflagellates...

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Bacteria Breed Multicellular

A single-celled relative of animals forms colonies when product, hinting at the possible origins of multicellularity

By Hayley Dunning | August 15, 2012

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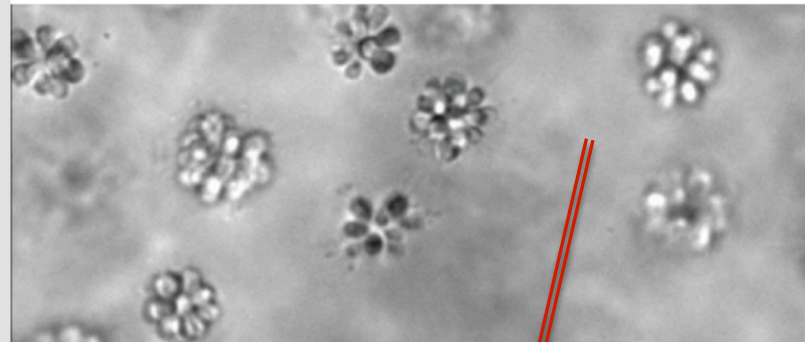
Link



Choanoflagellates have been thought of since the 1800s

The King Lab

Choanoflagellates and the origin of animals



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Publications

Alegado RA*, Brown LW*, Cao S, Dermenjian RK, Zuzow R, Fairclough SR and King N[§] (2012) **Bacterial regulation of colony development in the relatives of animals.** *eLife*. In press. [Alegado_2012_eLife_preprint](#)

Nichols SA, Roberts BW, Richter DJ, Fairclough SR and King N (2012) **metazoan cadherin diversity and the antiquity of the class complex.** *PNAS*. Early Edition pdf: [PNAS-2012-Nichols-112068](#)

Alegado RA, Grabenstatter JD, Zuzow R, Morris A, Huang SY, S (2012) **Algoriphagus machipongonensis sp. nov. co-isolated**

Thank you

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Mark Patterson