

Open Access: Dramatic Growth & Policy

Heather Morrison

*The Imaginary Journal of Poetic
Economics*

<http://poeticeconomics.blogspot.com>

Presentation at *Blogfeso*res, University of Puerto
Rico, Mayagüez, May 8, 2009.



Overview

- What is open access?
- Dramatic growth
 - Open access journals
 - Open access archives
- Policy
- Other open movements

What is open access?

- Literature that is digital, online, free of charge, and free of most copyright and licensing restrictions (Suber, Overview)
- Focus: peer-reviewed journal
- Two approaches: journals and archives
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Genes arranged head-to-head and sharing a common bi-directional promoter region display a conserved intergenic architecture in cows, humans and other mammals, which will help to identify regulatory regions and unrecognized genes in other mammals' genomes.



Dual approach to assembling cow genome

BMC Genomics 2009, **10**:180

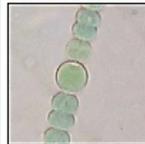
The assembly of the bovine genome used both bacterial artificial chromosome (BAC) and whole genome shotgun (WGS) sequences, exploiting the strengths of each to provide a more accurate and comprehensive coverage of the genome.



Effects of natural variation on the transcriptome

BMC Genomics 2009, **10**:124

Naturally-occurring variation in *Drosophila* insulin/TOR signaling pathway genes affects expression and phenotypes similarly to gene knockouts, but the sparse picture of regulatory networks derived from knockout studies on inbred lines is probably oversimplified.



ncRNAs in model cyanobacteria

BMC Genomics 2009, **10**:123

New conserved non-coding RNA (ncRNAs) in four species of cyanobacteria have been validated, opening the way for a less stringent comparative analysis with experimental support to discover even more previously unidentified elements.



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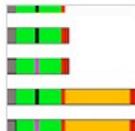
The New Yeast Is a Mouse!



Recombination hotspots are determined not only by features of the local genome but also by sequences acting at a considerable distance both in *cis* and *trans*.

Read the article. Read the related Parvanov et al. paper. Read the related Grey et al. paper.

Rousing a Latent Defense Mechanism to Fight HIV



Repairing an ancestral human pseudogene by mutagenesis, or by the application of aminoglycosides to suppress the termination codon, can restore the production of retrocyclins, which are peptides of the defensin family that are remarkable inhibitors of HIV-1 entry into cells.

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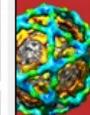
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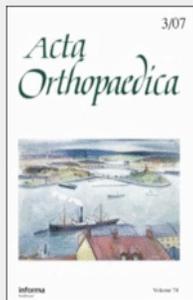
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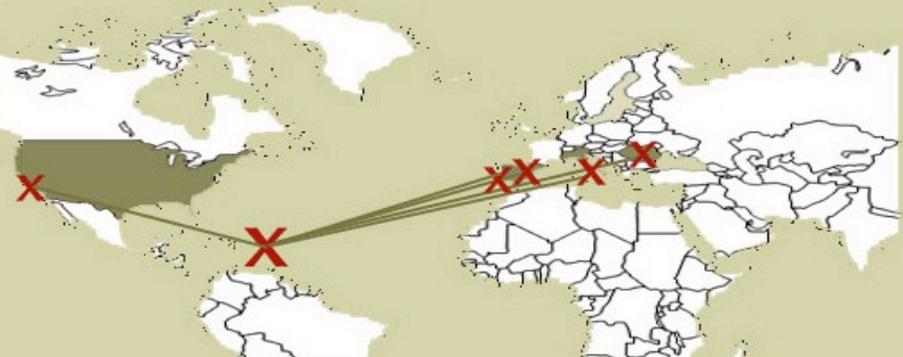
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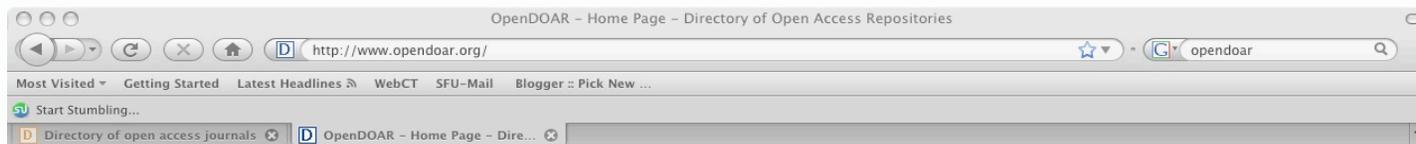
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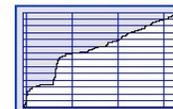
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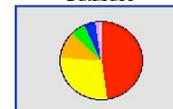
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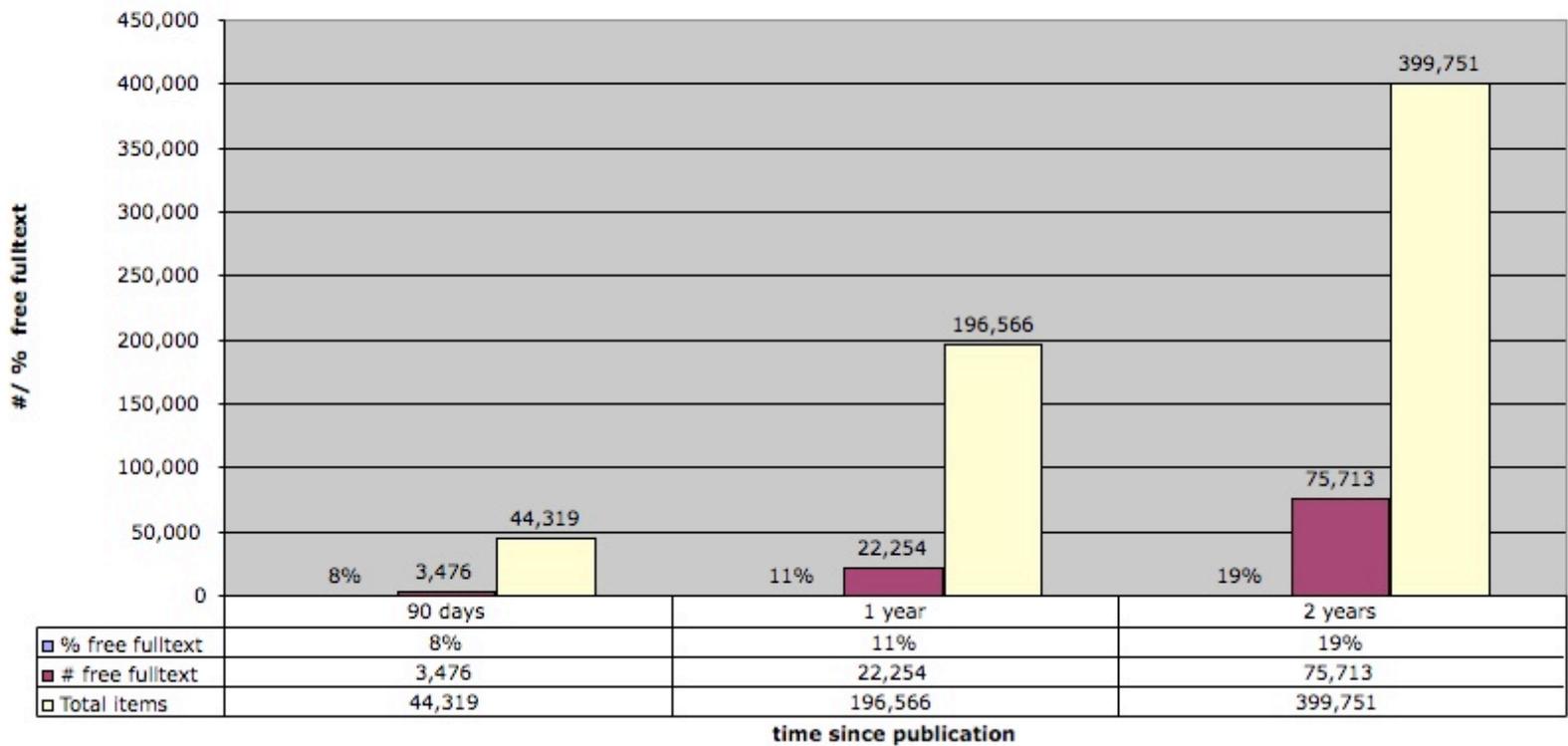
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- Jimenez-Contreras, Evaristo Las revistas científicas: el centro y la periferia. *Revista Española de Documentación Científica*, 1992, vol. 15, n. 2, pp. 174-182. [Journal Article (Print/Paginated)]
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Policy

- ROARMAP: 77 policies total, 14 proposed
 - 36 Funding agencies
- 41 institutional / departmental

U.S. National Institutes of Health Public Access Policy

- Public access *required* within 12 months of publication
- 2004; requirement 2008
- Compliance monitored & enforced
- Lobbying efforts - Conyers bill
- Funding prior to publishing
- FRPAA 2006

Other health funder mandates

- Wellcome Trust - open access within 6 months of publication
- Canadian Institutes of Health Research - open access & open data within 6 months
- U.K. Medical Research Council, Italy, many others

Other funder mandates

- U.K. - all 7 research councils
- European Research Council
- Brazil – Government, Public Higher Education & Research Institutes
- Principality of Asturias
- Canada - National Research Council, Social Sciences & Humanities, Natural Sciences & Engineering

Open access funder mandates - rationale

- Taxpayer access
- Speed research
- Return on public investment
- Show value for funding \$

Institutional mandates

- CERN
- Harvard Faculty of Arts & Sciences,
Law School, School of Government
- MIT
- European University Association

Institutional mandates - rationale

- Scholarship is for sharing
- Public service mandate of the academy and many scholars
- Taxpayer / donor access
- Return on public investment
- Show the value of the university, of scholarship
- Google scholar has close to 10,000 items for University of Puerto Rico - Mayagüez

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Elements of good policy

- OA is required not just requested
- Self-archiving / author's final manuscript not publisher's PDF
- Maximum embargo 6 months
- Immediate deposit / delayed release
- Monitoring & compliance
- Support for transition to open access

Conclusions

- Open access growing rapidly in every dimension: journals, archives, policy
- Action is advised!
- Join the OA movement
 - Open Access Directory
 - Open Access Tracking Project

Questions? Contact:

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The Imaginary Journal of Poetic Economics

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