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## Discover open access to peer-reviewed research

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# Discover Open Access to Peer-Reviewed Research

Marianne A. Buehler

Urban Sustainability Librarian

October 19, 2010

# What is Open Access? Why is it Important to You?

- Open access allows global users to search/locate, read, download, distribute, copy, print, or link to full-text research in:
  - Journal articles
  - Proceedings/Presentations
  - Technical reports
  - Theses/Dissertations
  - Datasets
  - And more...
- **Author:** Increases visibility and impact
- **Reader:** No toll access, more research options
- **University:** Increases visibility of faculty/research, reduces journal expenses, mission to share knowledge
- **Citizens:** Access to research, paid for in taxes, solves problems/new breakthroughs

## Recent Breakthroughs: Successful Open Collaborations (1)

- 2003-Scientists & executives from NIH, FDA, drug/medical industries, universities, nonprofits
  - Collaborative effort
  - To find biological markers for progression of Alzheimer's disease in the human brain
  - No one would own the data, no patents
  - "...parked our egos and IP noses outside the door..."
  - More than 3,200 entire data set downloads & ~ 1,000,00 downloads of brain scan image data sets

"Sharing of Data Leads to Progress on Alzheimer's," Gina Kolata. *The NY Times*: 08-10-10.  
<http://www.nytimes.com/2010/08/13/health/research/13alzheimer.html>,

## Recent Breakthroughs: Successful Open Collaborations (2)

- 2010 Nobel Prize in Physics
  - Discovered “graphene” (one atom-thick mesh)
  - Andre Geim and Konstantin Novoselov: Regular contributors to arXiv, OA archive for: physics, mathematics, computer science, quantitative biology, quantitative finance, and statistics
  - Subject archives-OA opportunity

“Open Access to Nobel Physicists’ Articles Through arXiv,” Carol Minton Morris. *DURASPACE BLOG*: 10-07-10.  
<http://expertvoices.ndsl.org/duraspace/2010/10/07/open-access-to-nobel-physicists-research-through-arxiv/>.

# Open Access Peer-Reviewed Research Opportunities

- Aggregators:
  - [OAster](#)
  - [ROAR](#)
  - [OpenDOAR](#)
  - [Ranking of World Repositories](#)
  - [DOAJ](#) ~5500 peer-reviewed journals
  - [arXiv](#)
  - Institutional Repositories-[UNLV IR](#)
- How does it work?
  - Web-bots harvest metadata using the OAI-PMH from institutional (or other) repositories
  - Google/search engines harvest data
  - Metadata leads to repository record for full-text or a link resolver to UNLV Libraries
- Millions of research resources from thousands of contributors

This has been a brief/basic overview of Open Access research resources. Feel free to ask questions or contact me for more information.

**THANK YOU FOR ATTENDING &  
CELEBRATING OPEN ACCESS WEEK!**