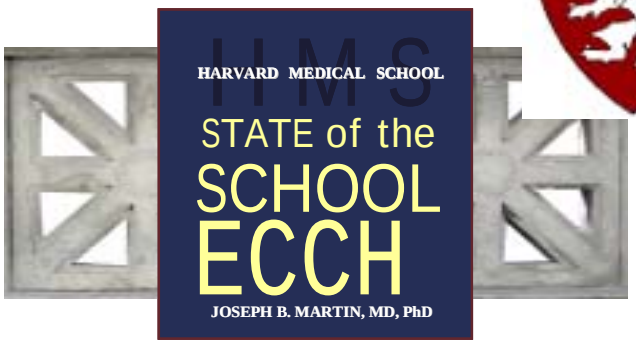
Collaborative Academic Biomedical Informatics Network

Alexa T. McCray
Harvard Medical School
Boston, Massachusetts
alexa_mccray@hms.harvard.edu

Transforming Scholarly Communication
Association of Academic Health Sciences Libraries, November 4, 2007

Fall 2005

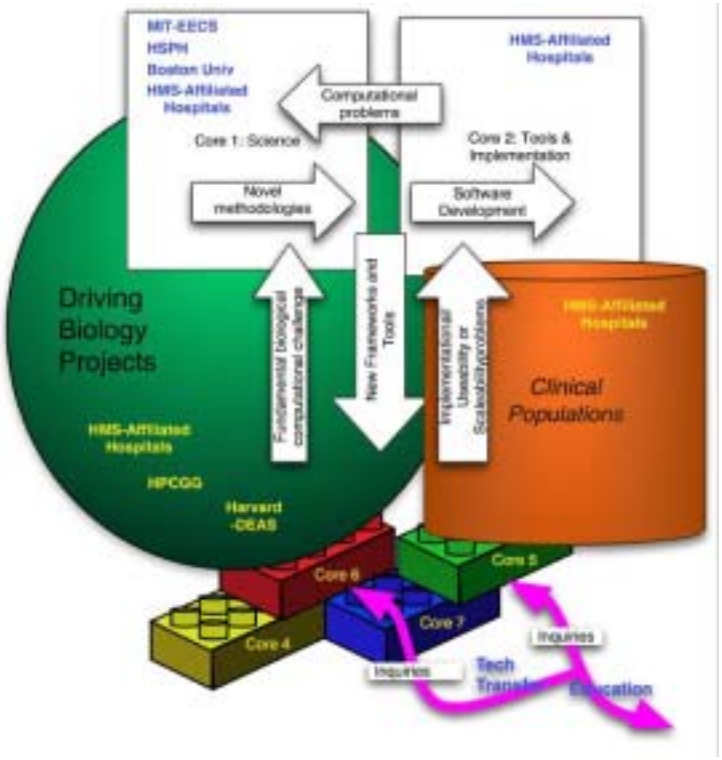


- Coincidence of new leadership for
  - Countway Library of Medicine
  - Newly established HMS-wide Center for Biomedical Informatics
- HMS Dean's charge:
  - "not only incorporate the standard functions of a library, but also introduce the new world of bioinformatics"

Preliminary Work

McCray et al.

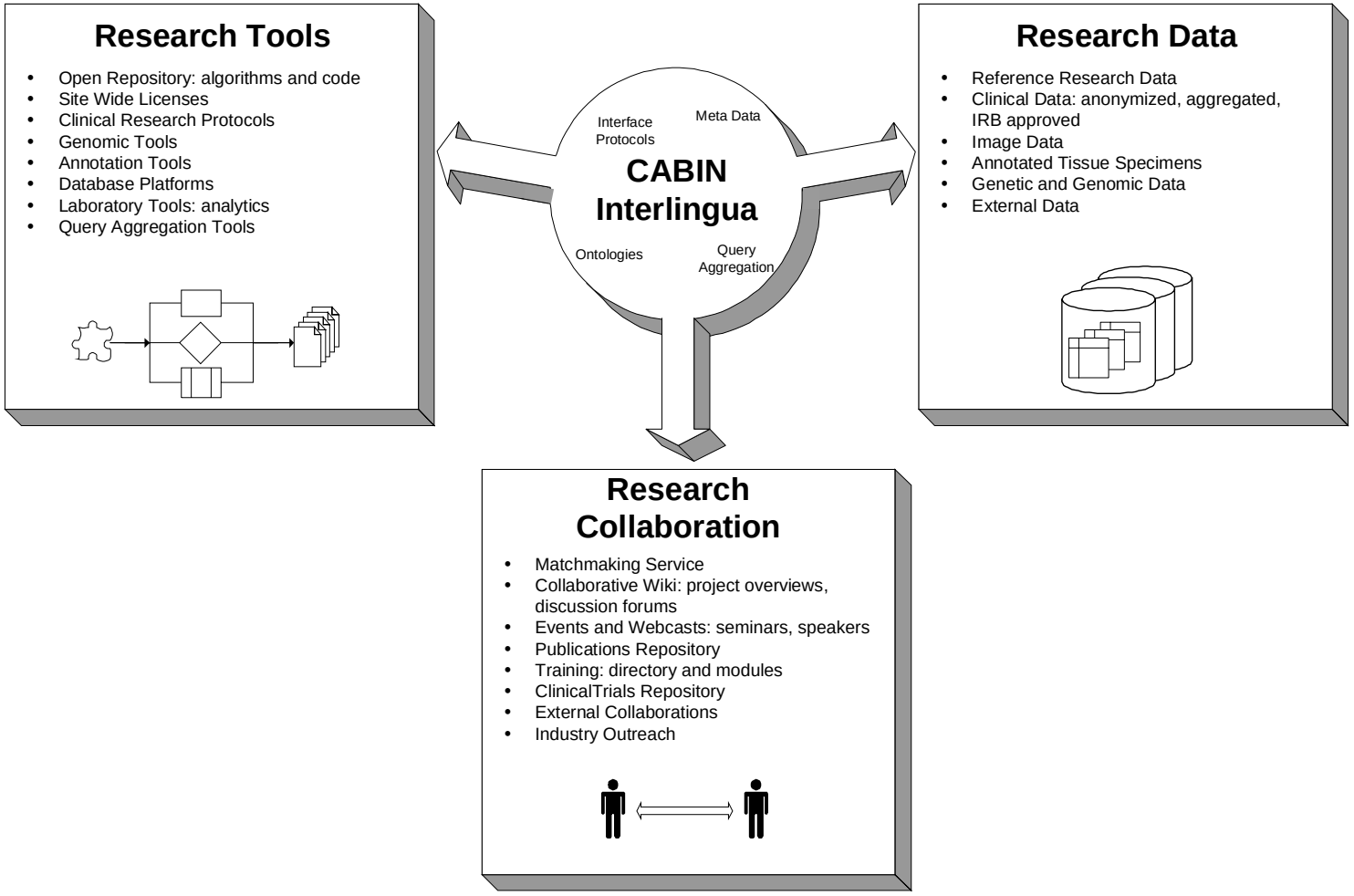
i2b2: Informatics for integrating biology and the bedside



Kohane et al.

Collaborative Technology

CABIN
(Collaborative Academic Biomedical Informatics Network)

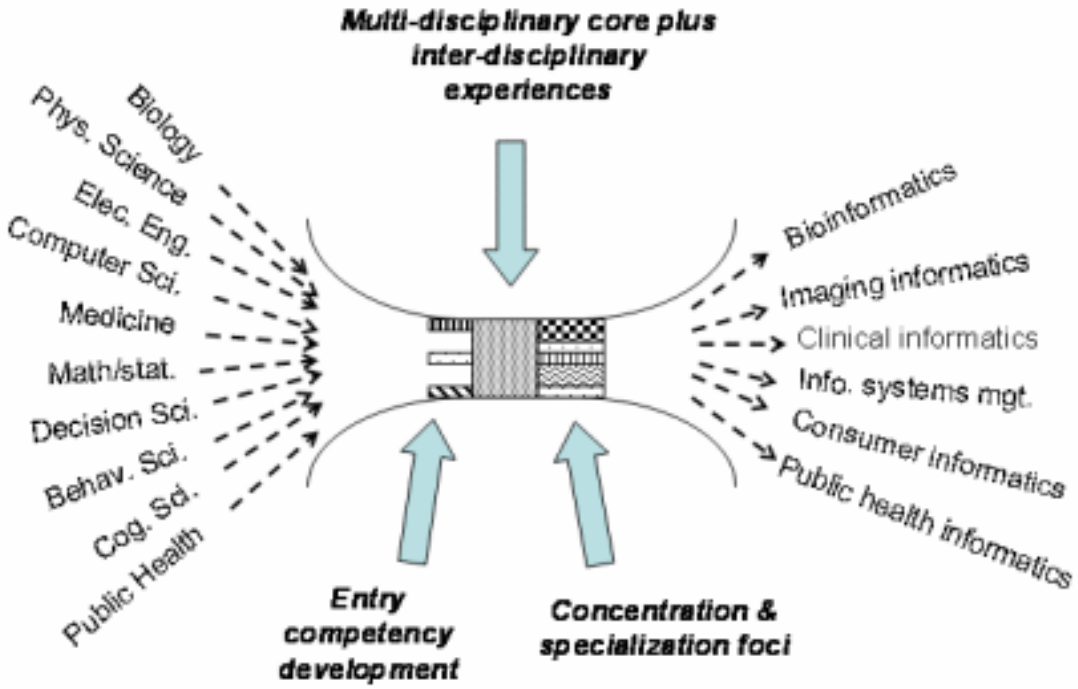


Collaborative Biomedical Networks

- Informatics-centric
- Initial foci
  - Training
  - Open access
  - Disease-based investigations
  - Mining the bibliome
  - Annotation tools
- Future plans

Informatics Training Program

- Funded by NLM/NIH
- Multiple biomedical informatics laboratories
- CBMI - center for symposia, journal clubs, seminars



Open Access

- An open access publication meets one of two conditions:
  - The author(s) and copyright holder(s) grant(s) to all users a free, irrevocable, worldwide, perpetual right of access to, and a license to copy, use, distribute, transmit and display the work publicly and to make and distribute derivative works, in any digital medium for any responsible purpose, subject to proper attribution of authorship, as well as the right to make small numbers of printed copies for personal use.
  - A complete version of the work and all supplemental materials, including a copy of the permission stated above, in a suitable standard electronic format is deposited immediately upon initial publication in at least one online repository that is supported by an academic institution, scholarly society, government agency or other well established organization that seeks to enable open access, unrestricted distribution, interoperability, and long-term archiving (for the biomedical sciences, PubMed Central is such a repository.

(Bethesda Statement on Open Access Publishing, 2003)

Or, more simply

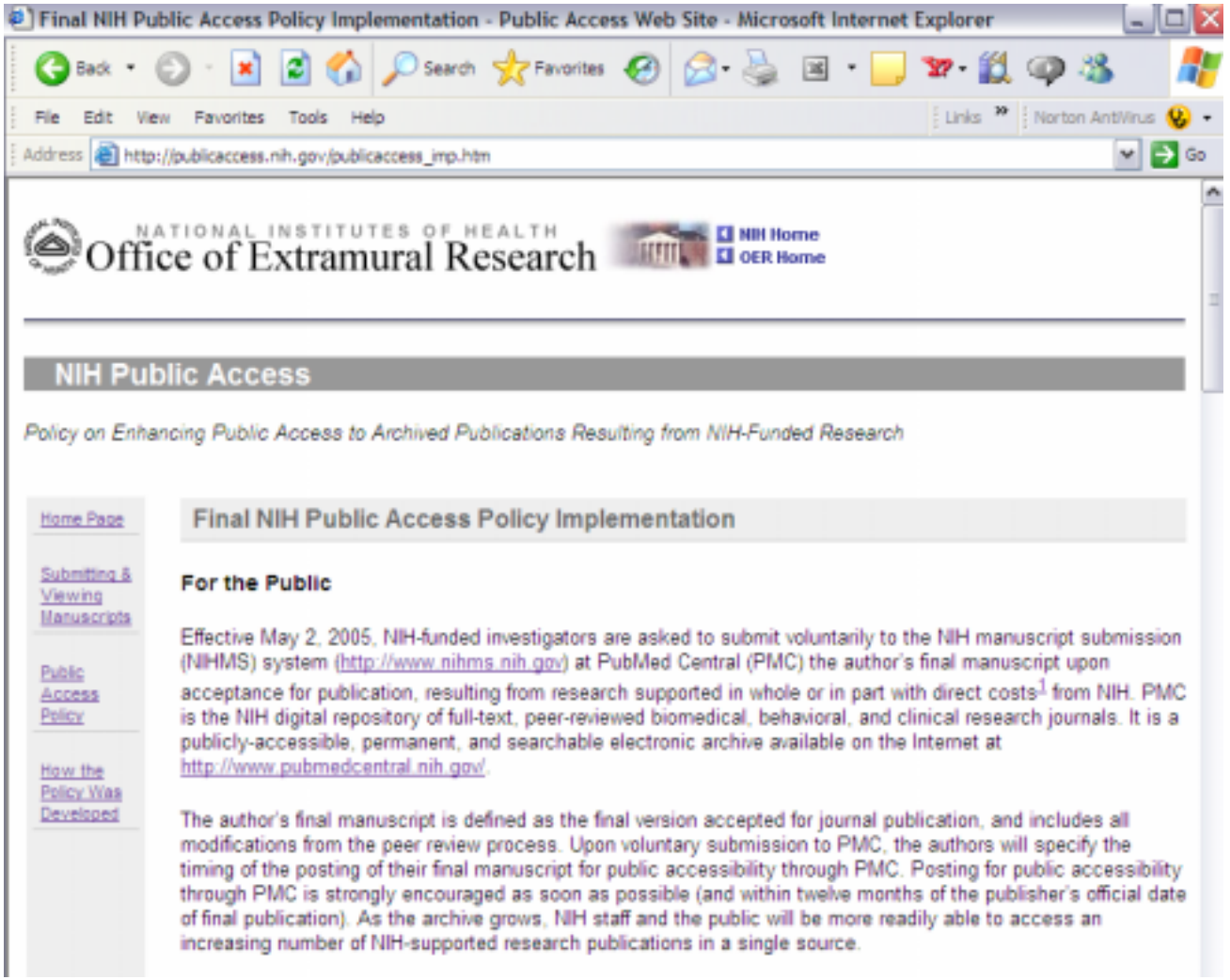
- An open access publication is one that is available for:
  - Unrestricted use, distribution, and reproduction in any medium,
  - Provided that the original work is properly cited.

(Public Library of Science http://www.plos.org)

Types of Open Access Publications

- Authors publish in an open access journal **(Gold)**
  - e.g. BMC Bioinformatics, PLoS Medicine
- Authors place publication in an open access archive **(Green)**
  - e.g. institutional repository, PubMedCentral
- Authors publish in a journal with a "hybrid" model
  - Some articles in the journal are open access
  - Articles are made available after delay

NIH Public Access Policy



HMS Scholars Portal

- Harvard-based life sciences publications repository
- Proxy service for depositing publications in NIH's PubMedCentral
  - All NIH funded research publications will be deposited in both the HMS Scholars Portal and PubMedCentral
- Outreach efforts to Harvard researchers
  - Promote NIH public access participation
  - Describe benefits of submitting to open access repositories and publications
  - Educate researchers on importance of retaining rights


HMScholar's Portal
COUNTWAY LIBRARY OF MEDICINE
@ Harvard Medical School
Home
About
Countway Library
Harvard Medical School
Login | Create Account
Search
Welcome to the HMScholars Portal
The HMScholars Portal is an OpenAccess repository of Health and BioMedical research published by the faculty at the Harvard Medical School.
Atom
RSS 1.0
RSS 2.0
Latest Additions
View items added to the repository in the past week.
Search Repository
Search the repository using a full range of fields. Use the search field at the top of the page for a quick search.
Browse Repository
Browse the items in the repository by Journal Name or Year of Publication.
About this Repository
More information about this site.
HMScholar's Portal supports OAI 2.0 with a base URL of http://hartolo.med.harvard.edu/cgi/oai2
HMScholar's Portal is powered by EPrints 3 which is developed by the School of Electronics and Computer Science at the University of Southampton. More information and software credits.
eprints

Lapinski

HMScholar's Portal

COUNTWAY LIBRARY OF MEDICINE
@ Harvard Medical School

Home | About | Countway Library | Harvard Medical School

Logged in as Mr PS Lapinski | Manage deposits | Profile | Saved searches | Review | Admin | Logout | Search

View item: The H1 histamine receptor regulates allergic lung responses.

You are both a depositor and an editor of this item. This is a depositor screen.

This item is in the repository with the URL
http://bartolo.med.harvard.edu/4953/

Details | Summary | Actions | Export | History

Bryce, Paul J and Mathias, Clinton B and Harrison, Krista L and Watanabe, Takeshi and Geha, Raif S and Oettgen, Hans C (2006) *The H1 histamine receptor regulates allergic lung responses.* The Journal of clinical investigation, 116 (6). pp. 1624-32. ISSN 0021-9738

Full text not available from this repository.

Request a copy

Official URL: http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=16680192

Abstract

Histamine, signaling via the type 1 receptor (H1R), has been shown to suppress Th2 cytokine production by in vitro cultured T cells. We examined the role of H1R in allergic inflammation in vivo using a murine asthma model. Allergen-stimulated splenic T cells from sensitized H1R-/- mice exhibited enhanced Th2 cytokine production. Despite this Th2 bias, allergen-challenged H1R-/- mice exhibited diminished lung Th2 cytokine mRNA levels, airway inflammation, goblet cell metaplasia, and airway hyperresponsiveness (AHR). Restoration of pulmonary Th2 cytokines in H1R-/- mice by intranasal IL-4 or IL-13 restored inflammatory lung responses and AHR. Further investigation revealed that histamine acts as a T cell chemotactic factor and defective T cell trafficking was responsible for the absence of lung inflammation. Cultured T cells migrated in response to histamine in vitro, but this was ablated by blockade of H1R but not H2R. In vivo, allergen-specific WT but not H1R-/- CD4+ T cells were recruited to the lungs of naive recipients following inhaled allergen challenge. H1R-/- T cells failed to confer airway inflammation or AHR observed after transfer of WT T cells. Our data establish a role for histamine and H1R in promoting the migration of Th2 cells into sites of allergen exposure.

Item Type: Article

Keywords: Administration, Intranasal || Animals || Cell Movement || Cytokines / immunology || Disease Models, Animal || Histamine / * immunology || Interleukin-13 / administration & dosage / immunology || Interleukin-4 / administration & dosage / immunology || Lung / * immunology || Mice || Mice, Inbred C57BL || Mice, Knockout || Ovalbumin / immunology || Receptors, Histamine H1 / genetics / * immunology || Respiratory Hypersensitivity / * immunology || T-Lymphocytes / immunology || Th2 Cells / immunology

ID Code: 4953

HMScholar's Portal

COUNTWAY LIBRARY OF MEDICINE
@ Harvard Medical School

Home | About | Countway Library | Harvard Medical School

Login | Create Account

Search

Year: 2007

Number of items: **456**.

September 2007

Steidl, Ulrich and Steidl, Christian and Ebralidze, Alexander and Chapuy, Björn and Han, Hye-Jung and Wilf, Britta and Rosenbauer, Frank and Becker, Annegret and Wagner, Katharina and Koschmieder, Steffen and Kobayashi, Susumu and Costa, Daniel B and Schulz, Thomas and O'brien, Karen B and Verhaak, Roel G W and Delwel, Ruud and Haase, Detlef and Trümper, Lorenz and Krauter, Jürgen and Kohwi-Shigematsu, Terumi and Griesinger, Frank and Tenen, Daniel G (2007) *A distal single nucleotide polymorphism alters long-range regulation of the PU.1 gene in acute myeloid leukemia.* pp. 2611-2620. ISSN 0021-9738

Kitamura, Tadahiro and Kitamura, Yukari Ido and Funahashi, Yasuhiro and Shawber, Carrie J and Castrillon, Diego H and Kollipara, Ramya and Depinho, Ronald A and Kitajewski, Jan and Accili, Domenico (2007) *A Foxo/Notch pathway controls myogenic differentiation and fiber type specification.* pp. 2477-2485. ISSN 0021-9738

Inoue, Haruhisa and Lin, Ling and Lee, Xinhua and Shao, Zhaohui and Mendes, Shannon and Snodgrass-Belt, Pamela and Sweigard, Harry and Engber, Tom and Pepinsky, Blake and Yang, Lichuan and Beal, M Flint and Mi, Sha and Isacson, Ole (2007) *Inhibition of the leucine-rich repeat protein LINGO-1 enhances survival, structure, and function of dopaminergic neurons in Parkinson's disease models.* Proceedings of the National Academy of Sciences of the United States of America, 104 (36). pp. 14430-5. ISSN 0027-8424

Conen, David and Ridker, Paul M and Buring, Julie E and Glynn, Robert J (2007) *Risk of cardiovascular events among women with high normal blood pressure or blood pressure progression: prospective cohort study.* BMJ (Clinical research ed.), 335 (7617). 432. ISSN 1468-5833

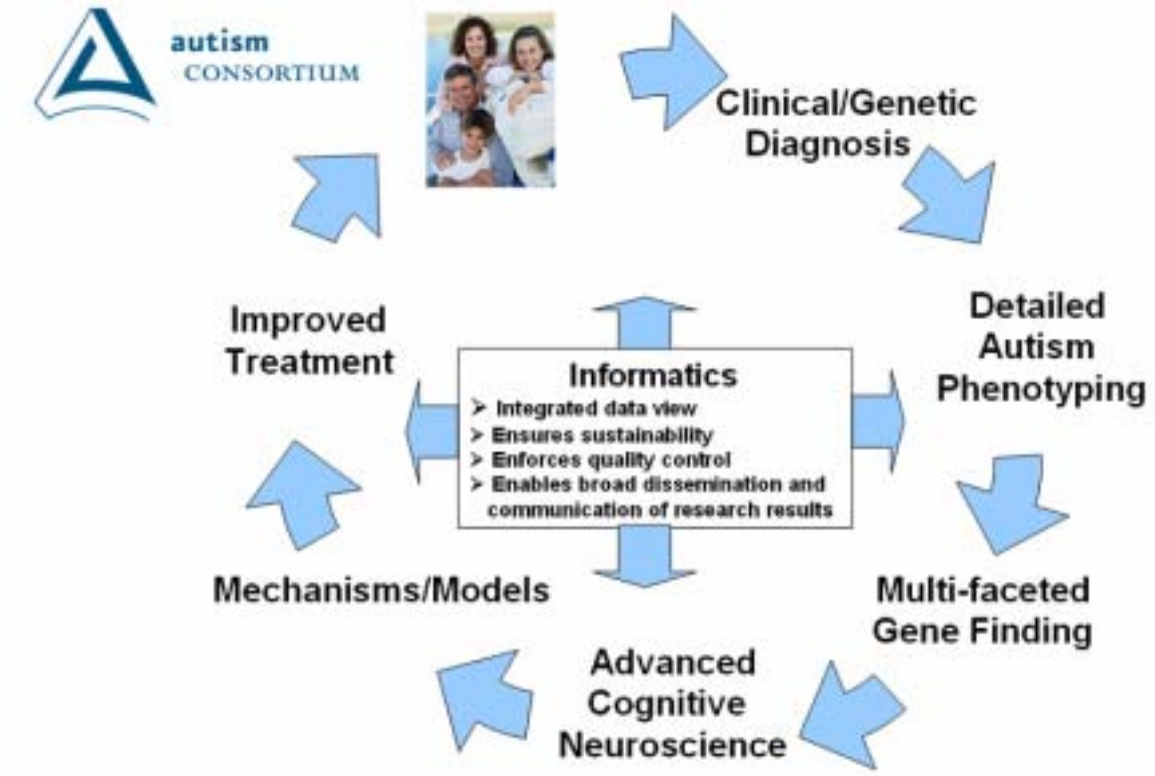
August 2007

Laden, Francine and Hart, Jaime E and Smith, Thomas J and Davis, Mary E and Garshick, Eric (2007) *Cause-specific mortality in the unionized U.S. trucking industry.* Environmental health perspectives, 115 (8). pp. 1192-6. ISSN 0091-6765

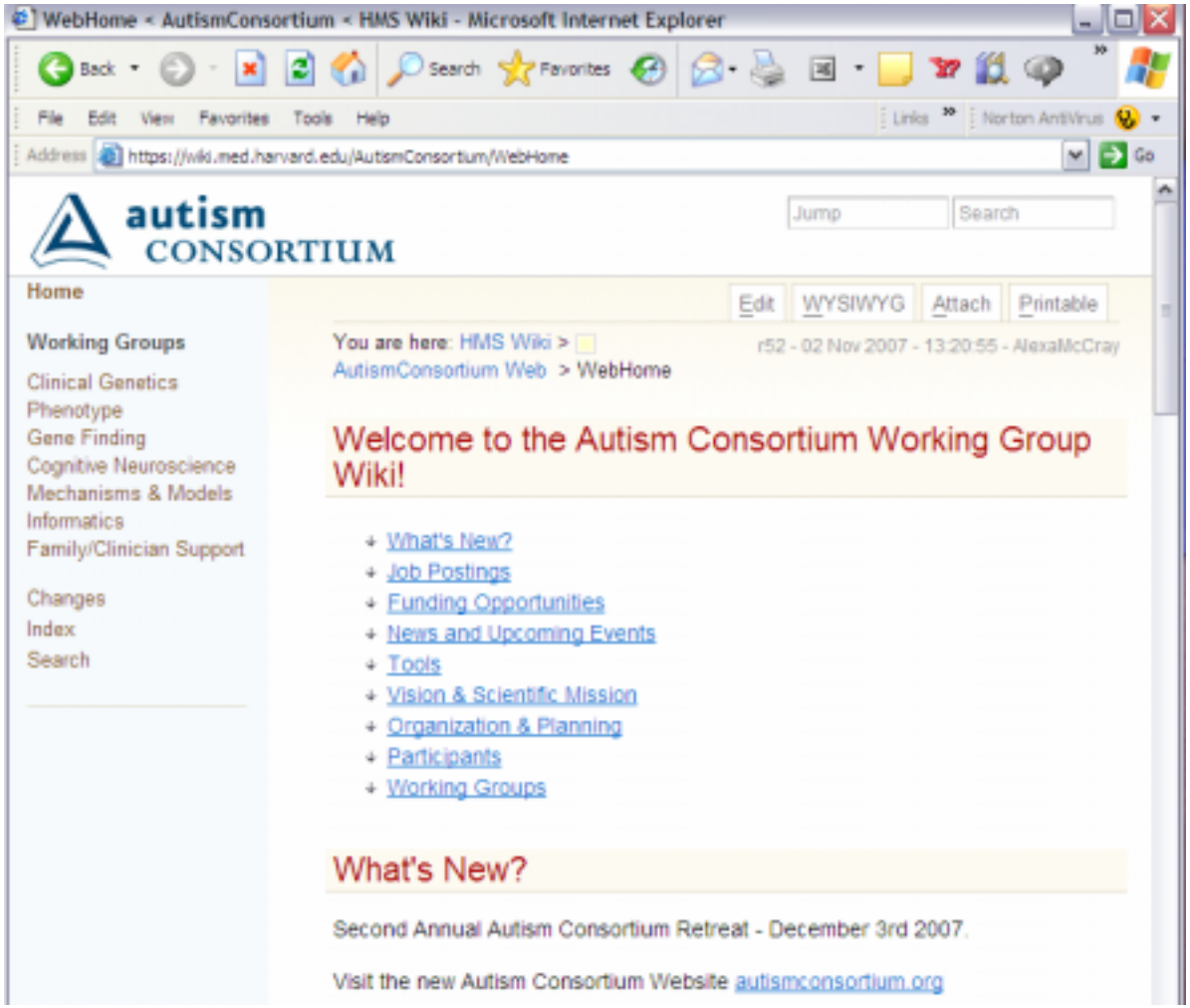
Marinkovic, Dragan and Zhang, Xin and Yalcin, Salak and Luciano, Julia P and Brugnara, Carlo and Huber, Tara and Ghaffari, Saghi (2007) *Foxo3 is required for the regulation of oxidative stress in erythropoiesis.* The Journal of clinical investigation, 117 (8). pp. 2133-44. ISSN 0021-9738

Wang, Hui and Madariaga, Maria Lucia and Wang, Shumei and Van Rooijen, Nico and Oldenborg, Per-Arne and Yang, Yong-Guang (2007) *Lack of CD47 on nonhematopoietic cells induces split macrophage tolerance to CD47null cells.* Proceedings of the National Academy of Sciences of the United States of America, 104 (34). pp. 13744-9. ISSN 0027-8424

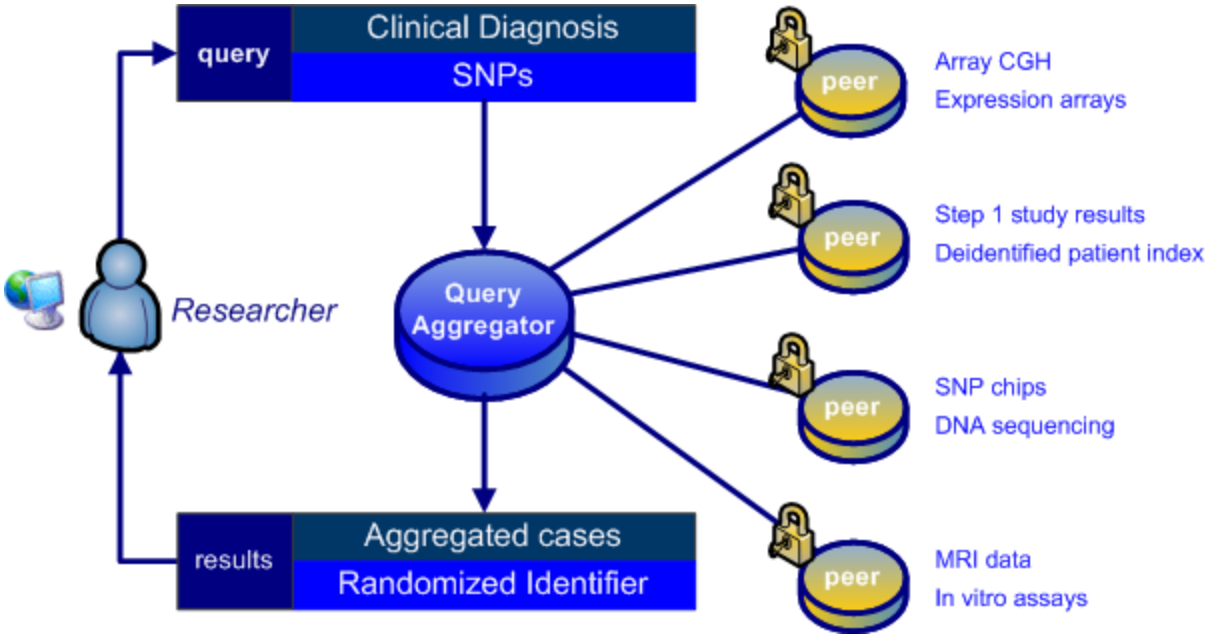
Boston-area Autism Consortium



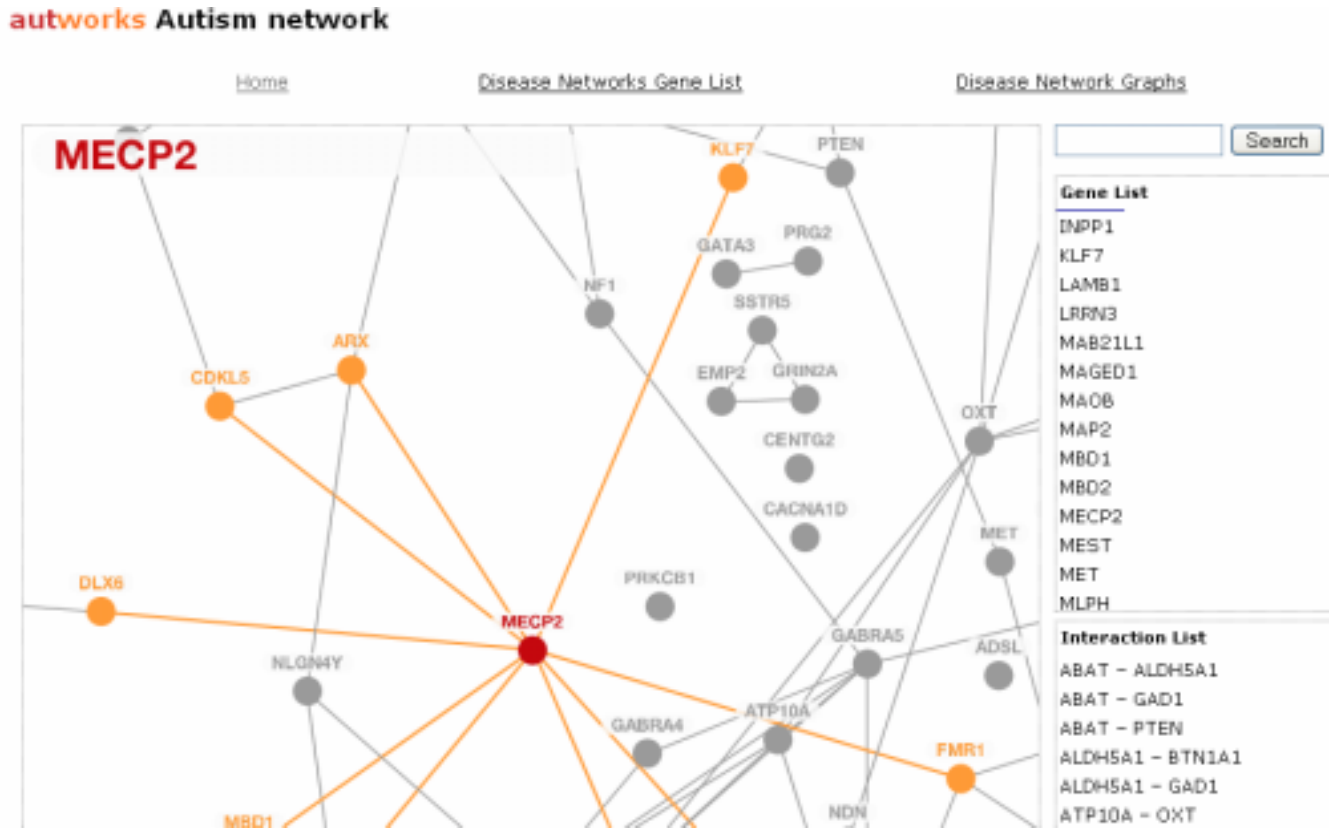
Autism Consortium Wiki



Correlating Phenotypes and Genotypes

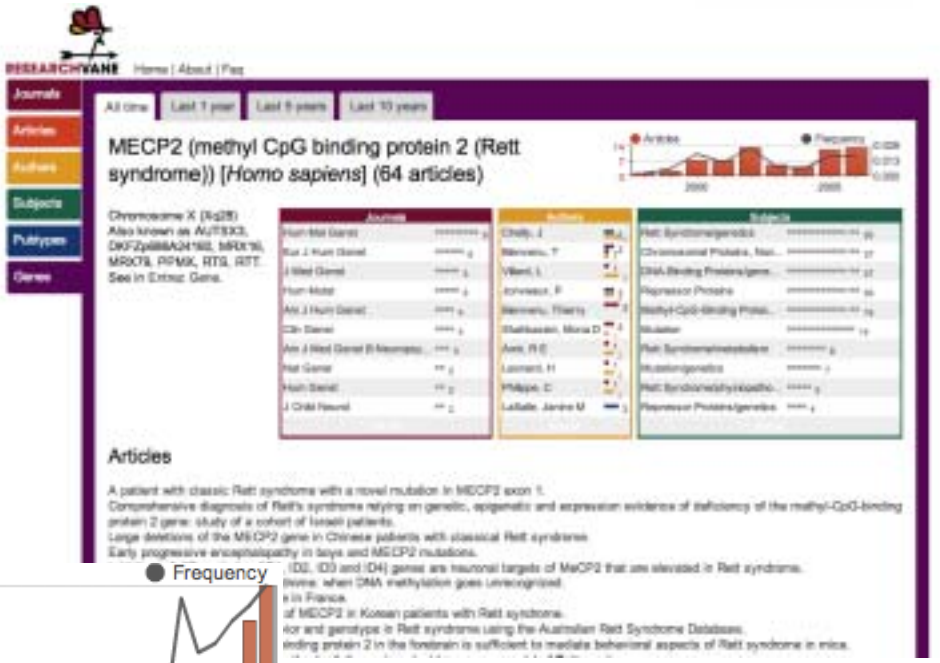


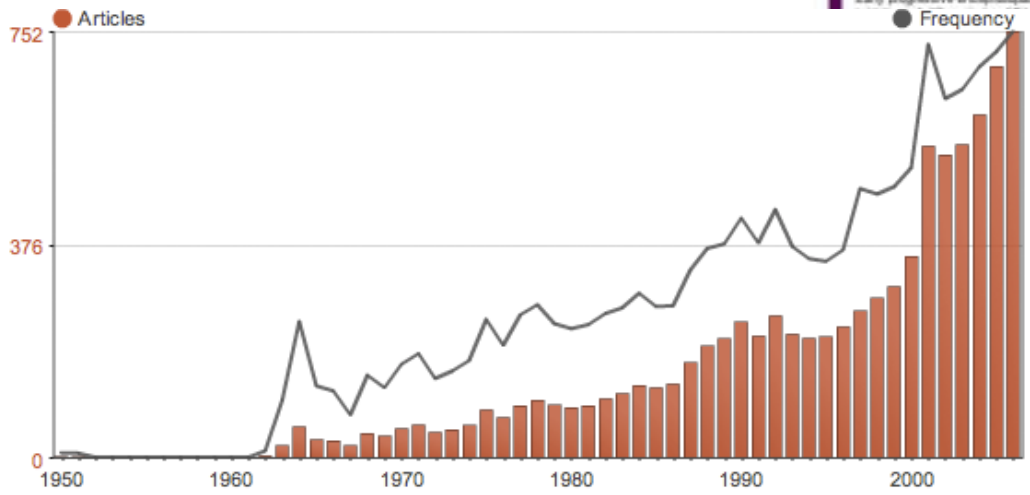
Mining the Bibliome



Dennis Wall, Tom Monaghan

Mining the Bibliome





Lee

Annotation and Collaboration

WEBDASH

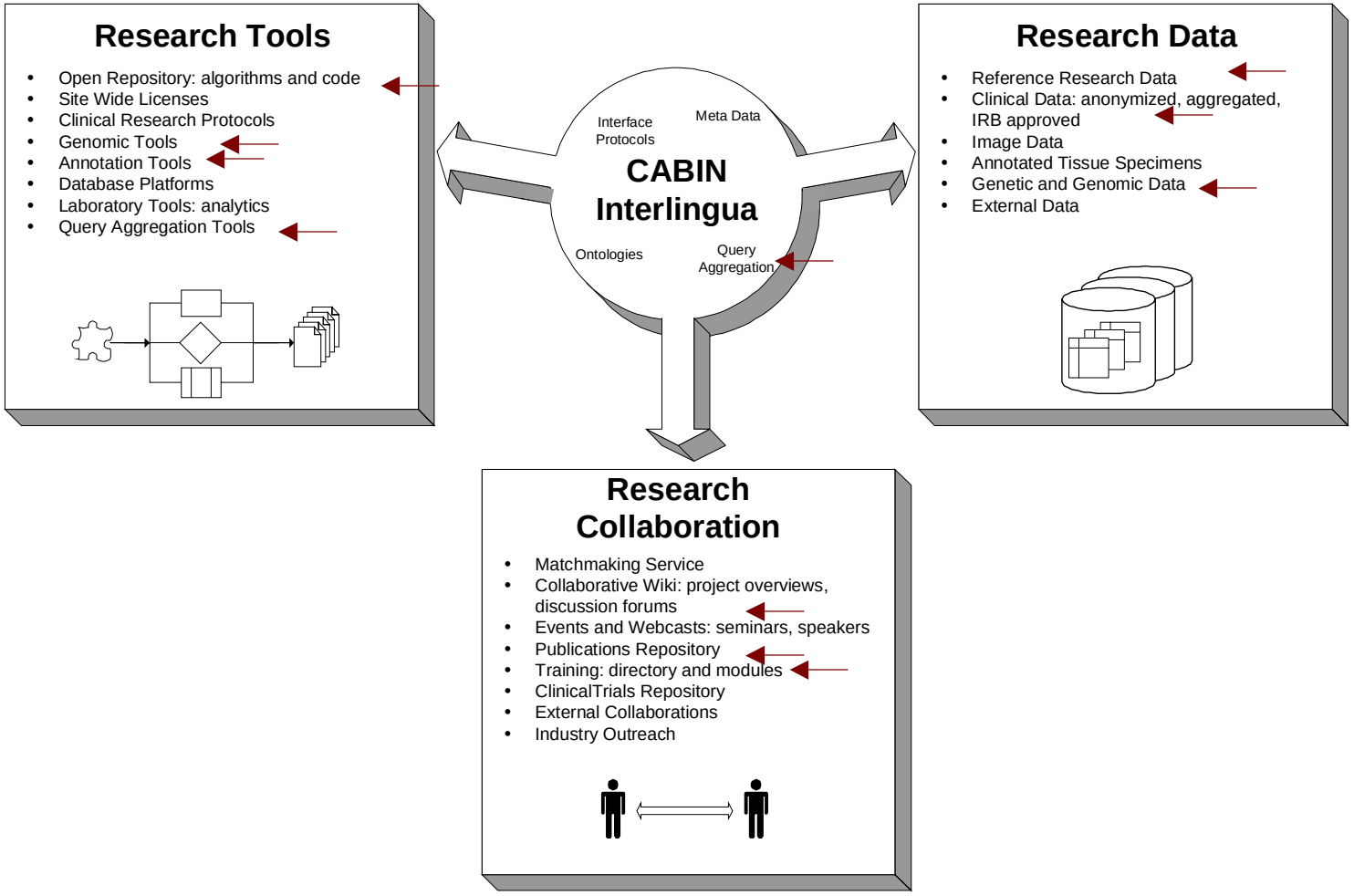
Webdash is a free "personal web assistant" that enables you to securely bookmark, organize, annotate, and email any page on the web right from your browser.

You are logged in as **Alexa T. McCray (Alexa_McCray@hms.harvard.edu)**

Adida

Collaborative Technology

CABIN
(Collaborative Academic Biomedical Informatics Network)



Harvard Medical School
CTSA Planning Grant