April 2008

Faculty of 1000 Biology: By Scientists for Scientists

FACULTY OF 1000 BIOLOGY
MAJOR ADVANCES. EXPERT OPINIONS.

Faculty of 1000 Biology (www.f1000biology.com/browse/) (F1000 Biology) is described as a "next generation literature awareness tool." Its purpose is to help researchers identify trends and highly regarded papers through reviews and recommendations, generated by over 2,300 leading researchers from around the world, including 21 faculty members (www.f1000biology.com/about/members) from the University of Pittsburgh.

F1000 Biology is run by scientists for scientists and is useful because it:

- systematically organizes and evaluates the mass literature
- can identify key papers in areas outside of your area of expertise or in journals outside of your normal browsing sphere
- can confirm the importance of specific papers
- provides quick suggestions for journal club articles

Each article is assigned a rating and one of seven classification types, as shown below.

Recommended F1000 Factor 3.1	**Classifies it** into any of seven paper types
Must Read F1000 Factor 6.2	New finding Technical advance Interesting hypothesis Important confirmation
Exceptional F1000 Factor 10.7	Controversial findings Refutation Novel Drug Target

The HSLS Molecular Biology Information Service has integrated F1000 Biology into the

search interface on the MolBio home page (www.hsls.pitt.edu/guides/genetics). This Vivisimo-driven search, found under the **Recommended Articles** tab, allows researchers to limit their search results to titles recommended by F1000 Biology. Articles are clustered on the right of the results page by subtopic, rating, or classification.

See F1000 Biology's FAQ page (www.f1000biology.com/about/faq) for more information on this useful tool.

~ Melissa Ratajeski and Carrie Iwema

Fugitive Literature Captured by PsycEXTRA

The HSLS online collection now includes PsycEXTRA, a database that captures difficult-to-find "fugitive" or "gray" literature in the fields of psychology, behavioral science, and health. To access this resource, type "PsycEXTRA" into the *search.HSLS* box on the HSLS homepage (www.hsls.pitt.edu).

What is fugitive or gray literature?
Gray literature consists of publications "...produced on all levels of government, academics, business and industry in print and electronic formats, but which is not controlled by commercial publishers."[1] Gray literature can be difficult to locate because it is disseminated outside the traditional path of peer-reviewed journal/book scholarship.

Why is PsycEXTRA useful?
    • PsycEXTRA is useful for locating obscure scientific or scholarly literature outside the traditional commercial publication path.
    • It fills the gap by bringing together material which is usually not covered in standard bibliographic databases such as MEDLINE and PsycINFO.
    • PDFs are included for a major portion of the publications listed in the database. The variety of materials available in PsycEXTRA include:

        o research reports   o policy statements

- curricula
- conference papers and abstracts
- consumer brochures
- pamphlets
- popular magazines
- grant information
- standards
- fact sheets
- newsletters
- directories
- white papers
- annual reports

- Currency: new research in psychology and the behavioral sciences often emerges first in the form of technical reports and conference papers, long before it reaches the journal literature. PsycEXTRA can help to identify the first appearance of this research.
- Patient Education: clear, concise explanations of behavior health issues, often found in consumer brochures and newsletters, are accessible through PsycEXTRA.

For more information visit PsycEXTRA's FAQ page (www.apa.org/psycextra/faq.html).

Examples of timely topics available in PsycEXTRA:

- *Information-Processing Skills Related to Working Memory in Individuals With Asperger's Disorder* (Conference Paper)
- *PASRR Screening for Mental Illness in Nursing Facility Applicants and Residents* (White Paper)
- *Caring for Veterans with Traumatic Brain Injury, Act of 2007*: [H.R. 2201] (Legislation)
- *Durham Study to Probe Benefits of Guided Imagery for PTSD* [US Department of Veterans Affairs] (Press Release)

[1] New frontiers in gray literature. Fourth International Conference on Gray Literature: GL 1999. Proceedings; 4–5 Oct 1999; Washington, DC, and Amsterdam, The Netherlands: GrayNet, 1999.

~ Rebecca Abromitis

Director's Reflections . . . NIH Public Access Mandate: Dates to Remember and Helpful Web Sites

NIH investigators should be aware of two important dates related to the new NIH Public Access Policy. This legislation requires that all journal articles reporting on NIH-funded research be deposited into the National Library of Medicine's online archive, PubMed Central (www.pubmedcentral.nih.gov/). These two dates are **April 7, 2008** and **May 25, 2008**.

Beginning on April 7, all applicable peer-reviewed articles accepted for publication must be in compliance with this mandate. To comply authors must:

Barbara Epstein
HSLS Director
bepstein@pitt.edu

• make sure that any copyright transfer or other publication agreement has appropriate language, allowing the article to be submitted to NIH, in accordance with the Policy.

• inform the journal that the article is subject to the Policy when submitting for publication.

• must take responsibility for submitting the article to PubMed Central on acceptance, unless the journal has explicitly agreed to do this on the author's behalf.

Beginning on May 25, relevant citations included in NIH applications, proposals and progress reports must include the PubMed Central reference number (PMCID). Citations that fall under this policy are those that are authored or co-authored by the investigator, or that arose from the investigator's NIH award.

Helpful Web Sites

• HSLS NIH Public Access Policy (www.hsls.pitt.edu/guides/nihpublicaccess/) includes detailed instructions and citation examples, as well as quick links to the NIH Manuscript Submission (www.nihms.nih.gov/) site, and NIH's informative "Frequently Asked Questions" (http://publicaccess.nih.gov/FAQ.htm) page. You can also link to a listing of journals (http://publicaccess.nih.gov/submit_process_journals.htm) that will submit articles to PubMed Central on behalf of authors.

• The Association of Research Libraries (ARL) has a web-based Guide for Research Institutions (www.arl.org/sc/implement/nih/guide/) focusing on issues of institutional compliance.

• The Scholarly Publishing and Research Coalition (SPARC) web page offers detailed compliance and background information about the NIH Policy. Of particular note is SPARC's information for authors (www.arl.org/sparc/author/), including explanations of author's rights and sample addenda to publishing agreements to retain these rights.

• The RoMEO (Rights MEtadata for Open Archiving) Project Web site (www.sherpa.ac.uk/romeo.php) has information on publisher copyright and archiving policies, searchable by journal title or publisher name.

The Jing Project: A Free and Easy Screen Capture Tool

A picture is worth a thousand words. This is the idea behind the Jing Project (www.jingproject.com), an application that allows users to capture images on their computer screens and share them as still pictures or videos. Imagine the possibilities! Create a video to show your colleague how to create an automatic e-mail alert (http://staff.hsls.pitt.edu/www/jing/Update_AutoAlert.swf) in PubMed. Send your IT department a screen shot of the error message (http://staff.hsls.pitt.edu/www/jing/Update_Error.png) you received. Narrate a picture slideshow (http://staff.hsls.pitt.edu/www/jing/Update_Vacation.swf) to send to your mom.

The Jing Project was developed by TechSmith, the company that created the products

Camtasia and SnagIt, and was released to the public as a way to gather feedback on the strengths and weaknesses of the application. The company is honest in saying that the product is **free, for now**.

Jing is available for Windows and Mac users and is quickly installed. Images and videos captured using the product can be saved as .swf files or uploaded directly to Screen-cast.com, a hosting site owned by TechSmith. When the files are uploaded to Screen-cast.com or another available server, such as your department's, a url address is created, allowing you to share information without the need to send sizable attachments via e-mail or instant messaging. See the Jing Project's FAQ page (www.jingproject.com/faq.asp) for more information about Screencast.com (www.screencast.com) accounts and technology requirements.

Screen shots can be modified with tools such as highlighting, text boxes, and arrows. Vid-eos can be narrated, but editing is not possible. Jing is intended for the creation of short videos in comparison to Camtasia or Apreso software that can be used to record lengthier lectures.
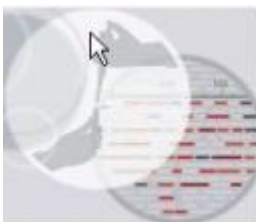
Think outside the box and give Jing a try! HSLS reference librarians will be using Jing to answer some of the questions received through Ask A Librarian (www.hsls.pitt.edu/askalibrarian/).

~ Melissa Ratajeski

Lunch with a Librarian: In Your Office

If you missed the HSLS Lunch with a Librarian session "Patient Education Solutions: Locat-ing Patient-Level Information within HSLS Resources" (www.hsls.pitt.edu/services/instruction/lunchlibrarian/other_sessions.html), don't despair. You can watch it online, in a two-part session "Locating HSLS Patient Education Resources" (27 minutes) and "Where to Refer Patients for Quality Health Information" (16 minutes). Watch for more Lunch with a Librarian sessions to be available online soon.

BIOBASE Knowledge Library: Featuring TRANFAC & ExPlain

Is your research focused on regulation of gene expression? Do you use microarrays, ChIP-on-chip, or protein arrays? Are you interested in uncovering the biology behind a list of dif-ferentially expressed genes? If so, you will want to explore a recent addition to the HSLS

molecular biology resources (www.hsls.pitt.edu/guides/genetics/licensed_tools) collection, the BIOBASE Knowledge Library (BKL).

BKL is a Web-based bioinformatics suite offering three databases and two DNA sequence analysis tools.

DATABASES
You can search these databases for genes or proteins of interest and retrieve expertly-extracted literature findings on function, mutant phenotype, interactions with other proteins, gene expression, promoter location, transcription factor binding sites in promoter regions, cellular localization, and posttranslational modifications.

• TRANSFAC: contains information on transcription factors, their experimentally-verified binding sites, DNA-binding profiles, and regulated genes.

• TRANSPATH: a database on biological pathways that provides information on signaling molecules, metabolic enzymes, second messengers, endogenous metabolytes, miRNAs, and the reactions they are involved in, resulting in a complex network of interconnected chains of reactions and pathways.

• PROTEOME: a collection of six protein databases covering information on yeast, human, mouse, rat, worm, human pathogenic fungi, S. pombe, and G protein-coupled receptors proteins.

TOOLS
The real power of this systems biology-driven product comes from its two software programs.

• MATCH: a tool that helps you locate transcription regulatory elements in your sequence of interest. It uses a library of mononucleotide weight matrices from TRANSFAC. Searches may be limited to a specific taxonomic group (vertebrates, plants, etc.) or to a particular tissue (adipose, muscle, liver, etc.) by selecting the appropriate matrix.

• ExPlain: a novel tool for interpretation of gene expression data. It predicts key regulatory molecules which are the actual cause for observed gene expression changes present in an experimental data set. Utilizing data from the TRANSFAC and PROTEOME databases, promoters of differentially expressed genes are analyzed and specific combinations of transcription factors regulating these genes are identified. Then the TRANSPATH database is used to analyze signal transduction networks present upstream of these transcription factors, thus providing a list of key signaling molecules that may be the potential cause of the observed gene expression profile.

Registration Information
To receive access privileges for the BKL databases and tools, please contact (www.hsls.pitt.edu/guides/genetics/ask_molbio) the HSLS Molecular Biology Information Service (www.hsls.pitt.edu/guides/genetics/contact).

~ Ansuman Chattopadhyay and Carrie Iwema

NLM Drug Information Portal

The NLM Drug Information Portal (http://druginfo.nlm.nih.gov/drugportal/drugportal.jsp) is a quick and easy-to-use gateway to selected drug information resources from the National Library of Medicine (NLM) and major governmental agencies. Coverage includes over 12,000 drugs, spanning from their entry into clinical trials, through FDA approval, and into the marketplace.

- Resources in this portal include MEDLINEPlus, PubMed, ClinicalTrials.gov, Daily Med, Dietary Supplements Database, LactMed, HSDB, PubChem, Drugs@FDA and AIDSInfo.
- Information can be located for the intended audience, such as consumer or re searcher or by its class, such as prescription or over-the-counter.
- A search can be completed using a drug's trade name or generic name.
- Not all experimental drugs or untested folk remedies are covered in this portal.

For more information on this resource see the NLM Drug Information Portal FAQs (http://druginfo.nlm.nih.gov/drugportal/jsp/drugportal/faq.jsp).

~ Charlie Wessel

New to TOXNET: Carcinogenic Potency Database

TOXNET (http://toxnet.nlm.nih.gov/index.html), a collection of toxicology and environ-mental health databases, recently included a new resource, the Carcinogenic Potency Da-tabase (CPDB) (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CPDB.htm), developed by scientists at the University of California, Berkeley, and the Lawrence Berkeley National Laboratory. The information contained in the CPDB can be useful for completing cancer risk assessments.

CPDB provides:
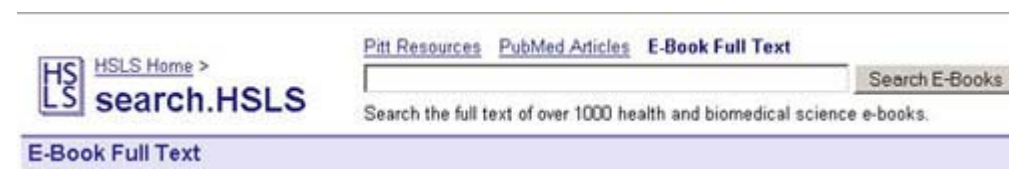- access to results on 1,547 chemicals from 6,540 chronic, long-term animal cancer tests, conducted since the 1950s
- for each experiment, information on the species, strain, and gender of the test animal
- protocol features such as dose duration, administration route, dose level and ex-periment duration
- analyses of dose-response curve shape, carcinogenic potency, and statistical sig nificance

The CPDB reports on animal cancer tests that are both positive and negative for carcino-genicity and standardizes the assorted literature of animal cancer tests that have been published in the general literature or reported by the National Cancer Institute and the National Toxicology Program.

The CPDB can be searched as a part of TOXNET, or independently, by chemical name or Chemical Abstracts Service Registry Number (RN). Supplemental information regarding CPDB can be found on Berkeley's Carcinogenic Potency Project's homepage (http://potency.berkeley.edu/index.html).

~ Carolyn Biglow

E-books: Information One Click Away

HSLS offers access to over 1,000 electronic books (e-books). Use the online alphabetic title (www.hsls.pitt.edu/resources/books/ebooks) or subject (www.hsls.pitt.edu/resources/books/ebooks/subjects) lists to browse the collection. Search the full-text (http://search.hsls.pitt.edu/vivisimo/cgi-bin/query-meta?v%3aproject=laserbeam&v:sources=ebooks-meta-laserbeam) of HSLS e-books using the program developed by HSLS with Vivisimo technology. Vivisimo clusters the results of the full-text search by topic or e-book source, allowing users to narrow their search in just one click.

~ Leslie Czechowski

HSLS Update Archives Now Searchable

The online archives of the HSLS Update newsletter are now searchable. Use the search box located in the right margin of the newsletter (www.hsls.pitt.edu/updatereport), to find topics of interest or locate the specific details from articles you have read in the past. Note that links and information are up-to-date at time of publication; archived information may no longer be current.

HSLS Schedule of Classes May-June 2008

HSLS offers classes on database searching, software applications such as Adobe Photoshop, bibliographic management, molecular biology and genetics, and library orientations. For more information visit the online course descriptions (www.hsls.pitt.edu/services/instruction/desc).

Classes are held on the first floor of Falk Library (200 Scaife Hall) in Classroom 1, and on the second floor in the Computer and Media Center Classroom 2. Some classes are also held at the Western Psychiatric Institute and Clinic (WPIC) Library Classroom.

Class schedules are subject to change. Please consult the online class calendar (www.hsls.pitt.edu/services/instruction/calendar) for the most current information.

All classes are open to faculty, staff and students of the schools of the health sciences at the University of Pittsburgh and UPMC. No registration is required. Seating for classes is first-come, first-served, until the class is full. Classes marked with an asterisk (*) qualify for American Medical Association Category 2 continuing education credit.

HSLS ORIENTATION

Introduction to HSLS Resources and Services at Falk Library
(Meet inside library entrance)
Tuesday, May 13   10-11:15 a.m.
Also offered upon request to groups or individuals. Call 412-648-8796.

Introduction to HSLS Resources and Services at WPIC Library
(Meet inside library entrance)
Tuesday, May 6   10-11:15 a.m.
Also offered upon request to groups or individuals. Call 412-246-5507.

SEARCHING DATABASES

PubMed Basics* (Falk Library Classroom 1)
Friday, May 30   9:30-11 a.m.
Thursday, June 12   1-2:30 p.m.
Wednesday, June 25   1-2:30 p.m.

Transitioning to Ebsco CINAHL* (Falk Library Classroom 1)
Wednesday, June 4   10-11:30 a.m.
Tuesday, June 24   1-2:30 p.m.

Searching PsycINFO* (WPIC Library Classroom)
Monday, June 9   10:30 a.m.-noon

Measuring Health: Finding Mental Measurement Tools* (WPIC Library Classroom)
Monday, May 5   10-11:30 a.m.

MOLECULAR BIOLOGY AND GENETICS RESOURCES

Introduction to VectorNTI* (Falk Library Classroom 2)
Wednesday, May 28   1-3 p.m.

Introduction to Pathway Analysis Tools* (Falk Library Classroom 2)
Wednesday, Jun 25   1-3 p.m.

SOFTWARE TRAINING

EndNote Basics (Falk Library Classroom 2)
(Note: This class is usually full. Please arrive 15 minutes in advance to ensure seating.)
Monday, May 5   9:30-11:30 a.m.
Tuesday, June 10   1-3 p.m.
Friday, June 27   9:30-11:30 a.m.

Adobe Photoshop for Beginners
Thursday, May 8 (WPIC Library Classroom)   10 a.m.-noon
Thursday, May 22 (Falk Library Classroom 2)   10 a.m.-noon
Thursday, June 26 (Falk Library Classroom 2)   10 a.m.-noon

Advanced PowerPoint for Presentations (Falk Library Classroom 2)
Thursday, May 15   10 a.m.-noon

PowerPoint for Beginners and Advanced PowerPoint (Falk Library Classroom 2)
Thursday, June 5   10 a.m.-2 p.m.

The WOW Factor: PowerPoint for Posters (Falk Library Classroom 2)
Tuesday, June 17   10-11 a.m.

LUNCH WITH A LIBRARIAN

These informal, brown-bag lunches are held in Falk Library Conference Room B. Bring your own lunch. Drinks and dessert are provided. For more information visit the online descriptions (www.hsls.pitt.edu/services/instruction/lunchlibrarian).

Jazz It Up: How to find Medical Images for Your Presentation
Tuesday, May 13   Noon-1 p.m.

Customize Google to Work for You
Thursday, June 12   Noon-1 p.m

CUSTOMIZED CLASSES

Customized classes (www.hsls.pitt.edu/services/instruction/customizedinstruction)
can be developed for your department, course, or other group.

HSLS Staff News

The HSLS Staff News section includes recent HSLS conference presentations, publications, staff changes, staff promotions, degrees earned, etc.

Kudos

The National Network of Libraries of Medicine, Middle Atlantic Region, recently recognized **HSLS Document Delivery Services staff** for their work in providing interlibrary loans to the region and nationally. The department's six staff members use sophisticated scanning and software applications to provide more than 3000 copies of journal articles per month to libraries worldwide. They are applauded for their top-notch service!

Publications

Barbara Epstein, HSLS director, published "Ascending the Leadership Hierarchy" in the newsletter of the Medical Library Association, *MLA News*, 402: 1,21, January 2008.

John Erlen, history of medicine librarian, published "Dissertations" in *AVISTA Forum Journal Medieval Science*, *Technology, & Art*, 17(1/2):83-89, 2007, and "Recent Dissertations in (or near) the History of Technology" (http://shotnews.net/?p=416) on the Web log *SHOTnews.com*, January 3, 2008. Erlen also served as a major contributor to "ISIS Current Bibliography of the History of Science and Its Cultural Influences 2007." Chicago: University of Chicago Press, 2008.

Carrie Iwema, information specialist in molecular biology, published "18 Ways to Improve your PubMed Searches" (http://bitesizebio.com/2008/03/05/18-ways-to-improve-your-pubmed-searches/) on the Internet blog *Bitesize Bio*, March 5, 2008.

Patricia Weiss, reference and information technology librarian, co-authored "Supporting the Emergence of Dental Informatics with an Online Community" in *International Journal of Computerized Dentistry*, 10: 247-264, 2007. Co-authors, all from the University of Pittsburgh, were H. Spallek, assistant professor[1]; J.Y. Irwin, PhD student[2]; T. Schleyer, associate professor and director[1]; and B.S. Butler, associate professor of business administration[3].

[1] Center for Dental Informatics, School of Dental Medicine
[2] Department for Biomedical Informatics
[3] Joseph M Katz Graduate School of Business

News

Phil Bittenbender has been promoted to storage specialist (library IV), and will act as the site supervisor of HSLS' remote storage facility at Lexington Technology Center. Bittenbender will oversee storage operations, retrieval and transmission of documents, and inventory processes.

Geoffrey Spear has been promoted to metadata manager (administrator II). Spear will be a key participant in organizing access to print and electronic library resources by overseeing implementation and maintenance of HSLS' newly-licensed electronic resources management system and link solver.

Presentations

John Erlen, history of medicine librarian, presented a talk "New Primary Resources for History of Medicine and Science: The EU Archives at the University of Pittsburgh" at the Southern Association for the History of Medicine and Science annual meeting, Gainesville, F.L. on February 29, 2008.