

HSLs Update

UNIVERSITY OF PITTSBURGH

Health Sciences Library System

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Librarians Attend Morning Report

As of March 2006, HSLs librarians are participants in Morning Report on the General Internal Medicine Service in UPMC Montefiore. The daily Morning Report session, which includes the attending physician, chief resident, and eight medical residents, is an important educational component of internal medicine resident training programs. Librarians are participating in a study for which the goal is to prepare residents to use evidence-based information in support of patient care. Following the discussion of a case, a clinical question is developed. Both the residents and the librarian retrieve relevant information to answer the clinical question, and this information forms a discussion at Report two days later. The presence of a librarian in this process serves as a reminder that quality primary literature is readily available.

This isn't the first time that HSLs librarians have participated in Morning Report. Beginning in 1988, a "clinical librarian" from Falk Library attended Report daily, and responded to the information needs identified by providing relevant journal articles to the chief resident that same day. A study conducted in 1991 by the participating librarians compared the article selections made by the librarian with that of a physician.¹ The study results found that librarians can recognize and select clinically useful articles as effectively as physi-



cians. The growing availability of electronic information resources since the late 1990s resulted in a dramatic rise in end-user searching. By the early 2000s, chief residents felt they could satisfy their own information needs, and the clinical librarian no longer attended Morning Report.

The resumption of librarian participation in Morning Report is a win-win situation. The inclusion of relevant literature in the clinical discussion provides residents with a more scholarly, evidence-based approach to patient care. The librarians, in turn, are exposed to clinical discussions resulting in increased knowledge of health and disease. Participation also provides librarians with an opportunity to build relationships with the physicians and residents.

¹Kuller AB, Wessel CB, Ginn DS, Martin TP. Quality filtering of the clinical literature by librarians and physicians. *Bull Med Libr Assoc.* 1993 Jan;81(1):38-43.

--Nancy Tannery

HSLs Biological Pathway Analysis Resources

Research in biological sciences is moving from single gene or protein-focused investigation to biological systems-based research. Advances in high-throughput (HT) technologies such as microarrays and protein arrays -- the major driving force for this change -- are producing large-scale data sets of genes or proteins.

The biological significance of these data sets can be uncovered by exploring biological pathways, functions, and molecular interactions associated with the genes or proteins derived from HT expression experiments. This requires systematic comparison of the large data sets of genes or proteins with knowledge drawn from the published literature. The number of articles and

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Director's Reflections... *Temporary Disruptions for Permanent Improvements*



Barbara Epstein
HSLs Director
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In Western Pennsylvania, drivers know that spring has arrived when they see orange construction cones along the highways. In Falk Library, we are also in the midst of a construction project to build a state-of-the-art computer classroom near the circulation desk at the front entrance, and four small group meeting rooms for students on the upper floor. The HSLs administrative offices will move to the main floor, and there will be a new office suite for the growing Information Service in Molecular Biology and Genetics. Nervous riders will be happy to learn that Falk Library's rickety elevator is scheduled for replacement after several postponements.

On the main floor, empty shelving that formerly displayed unbound issues of print journals has been removed to make room for additional study space and comfortable seating. The library's collection of print journal volumes is rapidly shrinking as new and older volumes are converted to electronic format, and as older print materials are moved offsite. The number of journal titles received only in print has decreased from more than 2,900 ten years ago to about 550 today.

These alterations are the first steps in a long-term plan to upgrade library space to accommodate new services, technology, and staff configurations. Delivery of electronic resources to users' desktop computers changes the role of the library-as-place, but it does not diminish it.

Falk Library was designed in the 1950s and has undergone modest renovations and reconfigurations in past years. The growing variety of formats of library resources – print, electronic and multimedia – calls for greater variety in the individual and group settings available to our users. When renovations are complete, the library's study environment will include comfortable seating and lounge areas, individual study carrels with space for personal computers and electrical outlets, tables seating two to four people, and small group study rooms with technological aids to enhance group learning and programmed instruction.

Most construction work will be done after 3 p.m. to minimize noise and disruption. Since workers will only be on one floor at a time, users can move to another study area for a more tranquil environment. We expect that construction will be complete by September 2006.

HSLs Update is produced by the University of Pittsburgh Health Sciences Library System, 200 Scaife Hall, 3550 Terrace Street, Pittsburgh, PA 15261 <www.hsls.pitt.edu>. Contact HSLs with questions, comments or ideas at 412-648-8796, or send email to medlibq@pitt.edu.

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HSLs Biological Pathway Analysis Resources *continued from page 1*

journals published is increasing at a notable rate, so much so that it has become impossible to manually analyze the HT results set. To help biologists with this challenging task, databases of gene or protein information culled from published literature are being created by either:

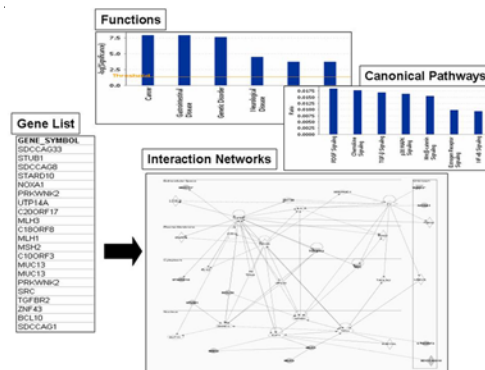
- Text mining algorithms (e.g., natural language processing (NLP)) technologies, or
- Expert human curation.

Researchers routinely use NLP and human-curated databases for HT data analysis. Some prefer NLP driven tools, which promise broader coverage of published knowledge due to their automated scientific fact-extraction feature. Others prefer human-curated databases for their high level of quality control.

HSLs Provides Tools for HT Results Analysis

HSLs is pleased to offer access to three HT results analysis software products. These are **Ingenuity Pathways Analysis** from Ingenuity Systems Inc., **PathwayArchitect** from Stratagene, and **PathwayStudio** from Ariadne Genomics. While Ingenuity offers a high quality expert-curated datasource, both Stratagene and Ariadne deliver NLP driven databases. Researchers can easily find the biological significance of their HT expression data sets by using these tools to:

- Identify biological interactions among genes of interest from the published literature and link to the supporting sentences in the matching journal article citations (for articles available online through PubMed);
- Connect two molecules by the shortest possible path;
- Import a list of genes and arrange them into a pathway;
- Import expression results and display as a heat map, as well as a pathway map;



- Find common upstream and downstream regulators of a gene;
- Display array results according to subcellular localization.

Each tool has its own strengths and weaknesses, and noteworthy features are listed below.

Ingenuity Pathways Analysis (IPA) 3.1 is a Web-based software application that enables biologists to identify the biological mechanisms, pathways and functions most relevant to their HT expression experimental datasets or genes of interest. For examples of IPA use in a wide range of research applications and peer-reviewed articles see www.ingenuity.com/solutions/ssolutions.html.

System requirements and a link for registration to download IPA are at www.hsls.pitt.edu/guides/genetics/ipa/.

PathwayArchitect helps you to interpret experiment results in the context of pathways, gene regulation networks, and protein interaction maps. Using curated and automatically created databases, PathwayArchitect identifies relationships among genes, small molecules, cell objects and processes; builds networks; and creates publication-quality pathway diagrams.

The HSLs license for PathwayArchitect will support five simulta-

neous users. Link to system requirements and register to download at www.hsls.pitt.edu/guides/genetics/pathwayarchitect/index_html.

PathwayStudio (formerly known as PathwayAssist) helps to interpret experimental HT expression results in the context of pathways, gene regulation networks and protein interaction maps. You can interpret microarray and proteomics data, classify and prioritize proteins, draw pathway diagrams, export, import, and filter data, and automatically update your pathways with newly published facts. The software includes ResNet, a proprietary database of more than one million functional relationships automatically extracted from scientific literature.

HSLs has three distributable static licenses for PathwayStudio. Link to system requirements and register to download at: www.hsls.pitt.edu/guides/genetics/pathwaystudio.

HSLs offers hands-on workshops and group or individual consultations for these resources. See www.hsls.pitt.edu/guides/genetics/ or contact Ansuman Chattopadhyay at ansuman@pitt.edu or 412-648-1297.

--Ansuman Chattopadhyay

Proteome Database Subscription Ends

HSLs will not renew the subscription to the Proteome database for 2006-2007 due to decreased demand.

See the HSLs Molecular Biology and Genetics portal www.hsls.pitt.edu/guides/genetics/ for alternative resources, or contact Ansuman Chattopadhyay, HSLs information specialist for Molecular Biology and Genetics, at 412-648-1297 or ansuman@pitt.edu.

Children's Hospital of Pittsburgh Libraries Redesigned

A redesign of the HSLs libraries of Children's Hospital of Pittsburgh is nearing completion, with a new layout, new computers, updated collections, and new furniture. The result is a more spacious and comfortable environment for research, browsing, or enjoyment for all our users – health care professionals, patients, and families.

The reference collection in the Blaxter Medical Library has been moved near the entrance for easy access to the core collection of reference books for health care professionals. The circulating collection, now located in the middle space of the Blaxter Library, has been updated to provide current clinical information. Print journals are now housed in the rear of the Blaxter Library. Since most HSLs journals are available online in clinical offices, or via HSLs Remote Access, we were able to open up space by removing pre-1991 volumes. These older journals remain available at Falk Library, through Document Delivery, or online.

To improve access to all HSLs online resources, we have installed a new network, and new Dell Optiplex GX620 computers in the Blaxter Library. Software includes Microsoft Office Professional 2003, Adobe Acrobat, Photoshop, and Endnote. Both Internet Explorer and Mozilla Firefox Web browsers are available. An HSLs username and password are necessary to access the new network, and you can register for an HSLs account instantly at www.hsls.pitt.edu/services/account/signup/ with a valid Pitt, UPMC, or CHP e-mail account.



The Family Resource Center now provides additional space for patients and families to use the updated Consumer Health Collection of books, videotapes, and DVDs on a wide range of health topics. A TV/VCR/DVD player is available for viewing videos in the library, and all Family Resource Center holdings may be checked out to inpatients for use in the hospital. The popular children's video collection now fills the back wall of the Family Resource Center, while the Moulis Library for children is stocked with the latest in children's and young adult fiction and non-fiction.

In the coming weeks, comfortable new seating and tables will be installed to further enhance the Libraries' role as a hub of information for everyone at Children's Hospital. Stop by and experience the transformation!

--Andrea Ketchum



Hopwood Library Participates in Diabetes Alert Day at UPMC Shadyside

The American Diabetes Association designated March 28, 2006 as *Diabetes Alert Day* to promote diabetes awareness in the community, alert people about the risks associated with the disease, and identify those at risk.

UPMC Shadyside promoted the event by holding an all-day *Diabetes Information Fair* in the West Wing Concourse of the hospital. The fair was open to patients, family members, staff, and the Shadyside community. The consumer health librarian from the Hopwood Library, representatives

from the departments of Diabetes Education Network, Cardiac Rehabilitation, Outpatient Nutrition Services, the School of Nursing, and Nursing Education were on hand to answer questions and offer information to attendees. Blood pressure and body mass index screenings (BMI) were done to assess risks, and consultations with healthcare team members, brochures, and nutritional information were also available. The Hopwood Library promoted its extensive diabetes collection, resources, and services. Over 250 people attended the event.

The **Hopwood Library** a health resource center for patients and families at UPMC Shadyside is a part of the Health Sciences Library System at the University of Pittsburgh. The library offers professional on-site reference assistance by a librarian who specializes in consumer health information. Access to medical information in various formats, and a specialized collection just for consumers is available to the UPMC Shadyside community and staff.

--Michelle Burda

Changes to MD Consult

MD Consult has eliminated their login requirement for Pitt and UPMC users. From the HSLs home page, users are now taken directly to the front page of MD Consult. Personalized features are still available, however, through the Personal Account link on the right side of the page. Users who have bookmarked MD Consult should change the bookmark to <www.mdconsult.com>.

Other enhancements include:

- Issue level access to journals to allow browsing within each journal's table of contents.
- Easier access to tables of contents of books.
- A new surgical image collection contained in the "Clinical Insights" section, located under the Current Practice tab.
- Improved functionality for e-mailing content.

-- Nancy Tannery

Staff News

PUBLICATIONS

Jonathon Erlen, history of medicine librarian, reviewed *Doctor Franklin's Medicine* by Stanley Finger, Philadelphia, University of Pennsylvania Press, 2006 in JAMA, 295(11): 1314-1315, 2006. Erlen also published: "Dissertations" in *AVISTA Forum Journal Medieval Science, Technology, & Art*, 15(1): 78-82, 2005; "Dissertations in the history of pharmacy" in *Pharmacy in History*, 47(5): 151, 2005; and "Dissertation list" in *History of Science Society Newsletter*, 35 (2): 11, 2006.

Charles B. Wessel, coordinator of Affiliated Hospital Services, and **Nancy H. Tannery**, associate director for Information Services, published "Health statistics phobia, part one: the hurdles" in *MLA News*, Mar;384:1,16, 2006; and "Health statistics phobia, part two: the solutions," in *MLA News*, Apr;385:21-22, 2006.

PRESENTATIONS

Leslie Czechowski, curator of manuscripts, presented "What's new at our place: the Thomas Detre collection" on May 4, 2006 at the Annual meeting of the Archivists and Librarians in the History of Health Sciences, Halifax, Nova Scotia.

Nancy H. Tannery, associate director for Information Services, and **Charles B. Wessel**, coordinator of Affiliated Hospital Services, taught their Medical Library Association continuing education course "Number, Number Who's got the Number, or Who's Counting?: Health Statistics Sources" to 54 participants from the Health Sciences Library Association of New Jersey in Princeton, New Jersey on March 8, 2006.

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HSLs Participation at the Medical Library Association Conference

Phoenix, Arizona, May 19-24, 2006

Contributed Papers

Rena Barger, reference librarian and Document Delivery coordinator; and **Melissa Ratajeski**, HSLs student intern: "Understanding User Needs in an Online Environment: What We Can Learn from Electronic Reference Questions."

Poster Presentations

Rebecca A. Abromitis, reference librarian: "Direct-to-Consumer Advertising of Psychiatric Drugs in Popular Magazines: How are Mental Disorders Portrayed?"

Jill Foust, reference librarian: "The Impact of Technology on the User Education Process."

Michele Klein Fedyshin, UPMC Shadyside manager of library services; and **Carol M. Patton**, professor and director of Nursing Programs, Chatham College: "Utilizing an Interdisciplinary Model to Promote Evidence-Based Practice in an Acute Care Hospital."

Mary L. Klem, **Ester M. Saghafi**, **Rebecca A. Abromitis**, reference librarians; and the Pittsburgh PROMIS Research Site: "Making a PROMIS and Keeping it: Providing Comprehensive Literature Search Services to an NIH Roadmap Initiative."

Continuing Education Presentations

Charles B. Wessel, coordinator of Affiliated Hospital Services, and **Nancy H. Tannery**, associate director for Information Services, presented a continuing education course "Number, Number, Who's Got the Number, or Who's Counting?: Health Statistics Sources."

Other Contributions

Deborah Silverman, associate director for Resource Management; and **Jaime Blanck**, former HSLs trainee, presented "Developing an Automated System to Analyze the Monograph Collection in a Health Sciences Library" at a meeting of the Collection Development Section.

Staff News *continued from page 5*

FAREWELL

June Bandemer, HSLs reference librarian, will retire at the end of June. During her almost 40 years at Falk Library, Bandemer held various positions including assistant director and head of Public Services, assistant director for Access and Administrative Services,* and two years as the library's acting director. She was one of three librarians in the late 1970s to be accepted into an Honors Internship sponsored by the Council on Library Resources and the National Library of Medicine. In the mid-1980s, Bandemer earned a Juris Doctor from the Duquesne University School of Law and is a current member of the Allegheny County Bar Association.

For two years, Bandemer taught the Medical Literature and Libraries course in the School of Library and Information Science at Pitt. She has been a member of the University's Institutional Review Board for psychosocial research, Faculty Assembly and the chairperson of the Peer Review Committee, University Libraries.

Bandemer is a Distinguished Member of the Academy of Health Information Professionals of the Medical Library Association. She has also been an active member of the Pittsburgh Chapter of the Medical Library Association for almost 40 years. Bandemer was the Chapter's secretary, Chapter Council Representative and Regional Legislation Chairman.

On June 30, 2006, **Alice Kuller** ends her 18 year tenure as an HSLs reference librarian. During her time at the University, Kuller initiated one of the first Clinical Medical Librarian (CML) programs in the country. The CML program was designed to provide timely, quality-filtered, knowledge-based information to residents in Internal Medicine and Surgical Oncology. These programs continued until the late 1990s, and the Internal Medicine program has been restarted this year. Alice also served as HSLs liaison to the School of Pharmacy where she provided information literacy instruction to students and assisted faculty with their information needs. At the request of the University's Institutional Animal Care and Use Committee (IACUC), Kuller has consulted with principal investigators performing database searches required by the U.S. Department of Agriculture.

Kuller has been an active member of the University Senate serving on faculty assembly, four years on the Senate Committee for Elections and one year as its chair, and more recently as secretary and co-chair of the Senate's By-laws and Procedures Committee.



From left to right: Alice Kuller, Cecile Roberts, and June Bandemer

During her 30 years as a member of the Pittsburgh chapter of the Medical Library Association, Kuller has served as its program chair, chair, secretary, and chapter council representative. In 1995 she received the chapter's Achievement Award for Role as a Leader and Mentor, and in 1998 she received the chapter's Librarian of the Year award.

Cecile J. Roberts, HSLs acquisitions manager, will be retiring from the University in June after 32 years at Falk Library.

Roberts came to Pitt after moving to Pittsburgh from Danville, Virginia in 1973. She began in the Falk Library Inter-Library Loan department, and three years later moved into the Acquisitions department where she was responsible for selecting and ordering books and managing payments and relationships with materials vendors. By 1998, she was managing the acquisitions area with a staff of five. Roberts has witnessed the changes in medicine and medical education through the changes in the book collection—"There is more variety now, especially since we became HSLs." She has also witnessed the growth of technology in the library, with the closing of the card catalog and manual record books and implementation of two automated library management systems.

Roberts is looking forward to some relaxation time with her husband, Clifford, shopping, and perhaps some traveling and volunteer work. She says she will miss her colleagues in HSLs, and the challenge her job offered. Like any good budget manager, she will miss "making it all work out at the end of the year."

We wish June, Alice, and Cecile a healthy and happy retirement!

HSLs Schedule of Classes July - August 2006

Class schedules are subject to change. Please consult the online class calendar at <www.hsls.pitt.edu/services/instruction/calendar> for the most current information. Classes are held in the Computer and Media Center Classroom 2 in Falk Library (200 Scaife Hall) unless otherwise noted.

HSLs ORIENTATION

Introduction to HSLs Resources and Services at Falk Library (Meet inside entrance to Falk Library)

Wednesday, July 5 Noon-1:15 p.m.
 Tuesday, July 11 9:30 a.m.-10:45 a.m.
 Friday, August 4 Noon-1:15 p.m.
 Also offered upon request to groups or individuals.
 Call 412-648-8796.

Introduction to HSLs Resources and Services at WPIC Library (Meet inside entrance to WPIC Library)

Wednesday, August 2 3 p.m.-4:15 p.m.
 Also offered upon request to groups or individuals.
 Call 412-246-5507.

SEARCHING DATABASES

Ovid MEDLINE-Getting Started*

Monday, July 17 5 p.m.-6:30 p.m.
 Tuesday, August 1 9 a.m.-10:30 a.m.

Ovid MEDLINE-Advanced Searching*

Tuesday, July 25 10:30 a.m.-noon

PubMed-Getting Started*

Monday, July 10 5 p.m.-6:30 p.m.
 Thursday, July 20 10 a.m.-11:30 a.m.
 Thursday, August 3 1 p.m.-2:30 p.m.

PubMed-Advanced Searching*

Thursday, July 27 2 p.m.-3:30 p.m.

Searching PsycINFO

Tuesday, August 1 3 p.m.-4:30 p.m.

MOLECULAR BIOLOGY AND GENETICS RESOURCES

Sequence Similarity Searching*

Wednesday, August 2 1 p.m.-3 p.m.

Introduction to PathwayArchitect*

Wednesday, August 16 1 p.m.-3 p.m.

Vector NTI: Database Management*

Wednesday, July 5 1 p.m.-3 p.m.

Vector NTI: Molecular Construction & Design*

Wednesday, July 19 1 p.m.-3 p.m.

Searching the HSLs Online Bioinformatics Resource Collection*

Wednesday, August 9 1 p.m.-3 p.m.

SOFTWARE TRAINING

EndNote Basics

(Note: this class is usually full and seating is first-come, first-serve. Please arrive 15 minutes in advance to ensure seating.)

Wednesday, July 12 Noon-2 p.m.
 Friday, July 28 9:30 a.m.-11:30 a.m.
 Wednesday, August 9 9 a.m.-11 a.m.

Adobe Photoshop for Beginners

Thursday, July 27 9 a.m.-11 a.m.
 Wednesday, August 23 9 a.m.-11 a.m.

PowerPoint for Presentations

Thursday, August 24 9 a.m.-11 a.m.

PowerPoint and Advanced PowerPoint

Wednesday, July 26 9 a.m.-1 p.m.
(Please plan to attend the entire four-hour session)

SPECIAL TOPICS CLASSES

Many classes on special topics are offered upon request to groups or individuals. For a list of all HSLs classes, see <www.hsls.pitt.edu/services/instruction/desc>. To request a class, call 412-648-8796 or e-mail medlibq@pitt.edu.

CUSTOMIZED CLASSES

Customized classes can be developed for your department, course, or other group. For more information, see <www.hsls.pitt.edu/services/instruction/customizedinstruction>.

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 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. Detailed course descriptions are available at <www.hsls.pitt.edu/services/instruction>.*

DailyMed Web Site

As of November 2005, drug manufacturers are required to provide product labels (package inserts) to the Food and Drug Administration (FDA) in a standardized, electronic format. The idea behind this new label layout is to manage the risks of medication usage, and to reduce medical errors.

A direct result of this recent FDA requirement is a useful Web site, DailyMed <<http://dailymed.nlm.nih.gov>>, developed by the FDA and National Library of Medicine to provide up-to-date medication information for consumers and health care professionals.

The uniform product label format includes:

- Description -- name, route of administration, active ingredients, inactive ingredients, and structural formulas;
- Clinical pharmacology -- pharmacokinetics and pharmacodynamics;
- Indications and usage;
- Contraindications, warnings, precautions such as information for patients, laboratory tests, drug interactions, carcinogenesis, mutagenesis, animal toxicology, and pediatric use, adverse reactions, overdose;
- Dosage and administration;
- How supplied -- marks (words, numbers, and scoring), how to store, and manufacturer's contact information.



DailyMed allows users to e-mail, download information, and request an RSS (Really Simple Syndication) feed for notification of drug updates.

DailyMed also links from each drug page to MedlinePlus, clinical trials, and biochemical data. The latter link connects to DrugBank, a database combining detailed drug data and comprehensive drug target information. DailyMed also provides a link to the FDA's MedWatch, where clinicians and the public can report adverse events on any FDA-regulated drug, biologic, medical device, or dietary supplement. Other DailyMed links lead to a preformulated PubMed search that retrieves all citations, or limits to adverse effects, therapeutic use, pharmacology, or clinical trials related to the drug.

Currently, DailyMed content consists of about 50 newly and recently approved prescription drugs, and drugs approved for new uses. However, since the FDA reviews and approves each label annually, every medication on the market should appear in the database over the next twelve months.

--Linda Hartman

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