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A lot of things in life are cyclic and this time of year, I reflect on the start of another fall and the return of students to campus. We at the Spencer S. Eccles Health Sciences Library welcome you to enjoy another year of learning and intellectual adventure! We encourage you to stretch your imagination and to challenge yourself to approach your learning in new ways!

We will be doing the same this year ourselves, as we embrace a renovation of our ceiling and installation of a safety sprinkler system. In order to reduce costs, acquire faster networking, and achieve complete removal of asbestos from our ceiling, we will be closing the physical library building for a period of time this year. That does not mean however that the library will be unavailable to you. Instead it means that we will be offering services in creative ways, mostly virtually, so that you will still be able to easily ask questions, get help with your research, and order materials from our collection as well as many other libraries across the country.

We will be distributing staff throughout the campus as well to be better able to assist you when needed. And yes, we will still be offering terrific classes, lectures and seminars to inform you of ways to use new and existing tools, resources, and technology.

Will this be a challenge - you bet! But one that is going to enable us to really understand your information needs as well as what services and resources you rely upon to accomplish your learning, research, and patient care. Watch our website for construction details as they unfold and do enjoy the beginning of a new academic year!

We welcome you and look forward to working with you in the coming year!

JPS-August 16, 2009
Grant W. Cannon, M.D., FACP, FACR

The Spencer S. Eccles Health Sciences Library salutes our Library Champions. This month we feature Grant W. Cannon, M.D., FACP, FACR. Dr. Cannon has appointments at both the University of Utah and the VA Medical Center in Salt Lake City. At the George E. Wahlen VA Medical Center Dr. Cannon is the Associate Chief of Staff for Academic Affiliations; at the University of Utah he is a Professor of Medicine and the Thomas E. and Rebecca D. Jeremy Presidential and Endowed Chair for Arthritis Research, in the Division of Rheumatology, Department of Internal Medicine and School of Medicine. Dr. Cannon graduated from the University of Utah School of Medicine in 1979 and did his residency and fellowship training here as well.

We asked Dr. Cannon to tell us, in his own words, why he is an Eccles Library Champion.

Tell us why the Eccles Library is your best friend.
Throughout my career, first as a medical student and then as a clinician and researcher, the Eccles Library has been there with the resources and services that I need. The library compliments the work I do but also fills a special niche. It’s not just about literature searching and access to journal articles, but also teaching and information management. The library faculty and staff have helped me learn to use WebCT for course presentation, taught me EndNote, provided student materials, placed readings and exams on electronic reserves, and planned, developed and taught courses for the medical students.

Why do you support the library?
I support the library because they support me. The library faculty and staff are committed to providing a range of information services and resources that help me get my job done.

How has the library helped you do your job?
First, the library has provided information support for my various research endeavors. If they don't have a journal article I need, they will get it for me through the Interlibrary Loan service. In addition, the library faculty have worked closely with me to develop informatics instruction for the third year
medical student during the OB/GYN and Pediatric rotations. Library faculty have helped plan, develop, implement, teach and evaluate these important sessions that have the goal to help the students become life-long learners. By helping the students, the library faculty have helped me help the students become successful users of information resources and services.

What are the top three library services you use?

1. Library faculty and staff as instructors.
2. Electronic reserve.
3. On-line examinations.

What will the library look like in the near and distant future?
The library of the future will provide a virtual consulting service with resources to provide real time on-site information needs. When I first started to use the library in the mid-1970's it was all about books and finding the books and journals I needed; I spent hours in front of the print Index Medicus trying to locate journal articles of interest. Now the library is about providing access to information online. I can locate the information I need without leaving my office or by using my home computer or PDA. The library of the future will be more about information access and providing consultations. You don't necessarily need a big physical space for the library; you just need a computer with remote access to library subscription resources to locate the information you need now.

How do you describe the Eccles Library to others?
The library is a wonderful resource with dedicated staff who can help you meet your objectives related to clinical care, research, and education. Library faculty and staff quickly respond to requests for the purchase or loan of materials, teach classes like EndNote, PowerPoint and Photoshop, and can help you develop curriculum integrated training programs. The library manages the Health Sciences Education Building and while there is a logistical component to running the building, it meshes quite nicely with library services and teaching. One example is the Audience Response System (the clickers). The tech support team ensures that the software and the receivers operate as they should in the individual classrooms; while the staff provides instruction on how to create a polling slide and use the gathered statistics.

What information seeking/using advice would you offer to today's health sciences students?
Get to know library faculty and staff by name! Get them to help you navigate the information maze. Libraries are more than just books; they can help you learn about appropriate technologies and tools that will make your time in school more efficient and productive.

What's the best information advice you ever got?
"It's only money." If you want to do something that requires an expenditure of monies you don't have, don't let that stop you. There are teaching grants, technology grants and folks out there who can help you get the money you need to do the project you want to do. In working with the library faculty to
incorporate the use of PDAs into the 3rd year Pediatrics rotation, we were able to find the funding we needed to purchase 20 devices and software. Be sure to talk to the people and experts who can move your ideas from concept to reality.

What do you do for fun?
Spend time with my family, plan vacations, and take vacations. Always have a vacation planned.

Grant and Sandra Cannon on vacation.

GC/JML August 16, 2009
Medical Library Association Awards Given to Directors

The faculty and staff of the Spencer S. Eccles Health Sciences Library are pleased to announce that two prestigious awards were given to both the current Library Director, Jean P. Shipman and Emeritus Director Wayne J. Peay at the Medical Library Association annual meeting, May 18, 2009 in Honolulu, Hawai'i.

Jean Shipman received the MLA Fellows Award from the Board of Directors in recognition of her notable leadership, outstanding achievement, significant scholarship and professional reputation. Jean was president of the Medical Library Association in 2006-2007, a member of the MLA Board of Directors from 1999-2002, a Distinguished Member of the Academy of Health Information Professionals and has long served the association in many capacities. She is particularly noted for her role in health information literacy and is the co-principle investigator for MLA's recently completed Health Information Literacy Research Project.

Jean has also been awarded Honorary membership in the Southern Chapter of the Medical Library Association which will be presented at the Annual meeting in Memphis, TN.

Jean has presented over 50 papers and presentations all over the country and will be travelling to Milan this month to present a paper entitled Teachers of Health Information Literacy - Future roles for librarians as supported by the Medical Library Association/National Library of Medicine's Health Information Literacy Research Project Jean P. Shipman (University of Utah, Salt Lake City, USA) and Carla Funk (Medical Library Association, U.S.A.)

Wayne Peay was awarded the Marcia C. Noyes Award, the highest professional distinction of the Medical Library Association. The award was established in 1947, recognizing a career that has resulted in lasting, outstanding contributions to the field of health sciences librarianship. Wayne was named a Fellow in MLA in 2000 and was asked to deliver the association's Janet Doe lecture in 1998. He served on the MLA Board of Directors, as president of the Association of Academic Health Sciences Libraries, and was elected as Fellow of the American College of Medical
Wayne J. Peay  
Emeritus Director  
Eccles Health Sciences Library

Informatics. From his earliest days as a librarian, Wayne has promoted the use of technology in libraries and been viewed as an innovator of new and creative ideas. An introduction of Wayne as he received this award can be found on YouTube.

JMS-8/17/09
As the semester winds down the Spencer S. Eccles Health Sciences Library Ceiling Project is ramping up. Books have been moved to the lower level while library staff members are being relocated to adjacent buildings. As the date for closing the building approaches how is one to keep track of all the changes? In addition to posting large colorful signs around the library we are leveraging the power of Web 2.0 applications to make up-to-date information available to you online.

Eccles Library has recently begun hosting its own blogging service using the free, open-source software Wordpress MU. A blog (which is a contracted version of the earlier term weblog) is a kind of website with regular entries that are typically listed in reverse-chronological order. The entries are often news or commentary in nature and can include other media such as images, audio and video. To blog or blogging refers to the act of writing for and maintaining a blog, and a single entry is a blog post. Many blogs allow followers (readers) to comment on its content, creating a dialog between author and audience. The entire collection of blogs on the Internet is often referred to as the blogosphere.

Eccles Library has created two blogs to provide patrons and fans with current information. The first, EHSLibrary, is the general news and information source for the library. The second, Eccles Library Ceiling Project, was created to provide up-to-date information on our current renovations and their effects on service. Generally both blogs are updated 1-2 times per week and include pictures and other media of interest whenever available. Comments are welcome and moderated for inappropriate content.

A recent change to blogging is the advent of micro-blogs, the most popular and familiar form being Twitter. These blogs allow the user to post short updates of 140 characters or less as well as pictures, audio clips, etc. Both kinds of blogs can be open to anyone or restricted to a certain group as determined by the owner of the blog. An update or post on Twitter is referred to as a tweet; the act of writing tweets is referred to as twittering, and a particular micro-blog is referred to as a feed. Eccles
Library has a Twitter feed called EHSLibrary, which is updated as often as the EHSLibrary blog.

Eccles Library also has a presence on Facebook, the most popular social-networking site on the Web. Part of the power of Web 2.0 applications is demonstrated in how these tools work together creating networks of information. For example, using two free Web 2.0 applications, HootSuite and Ping.fm, when a post is added to the Eccles Library blog (EHSLibrary) it is automatically posted on the library's Facebook page, and to the library's Twitter feed (EHSLibrary). So no matter which social media our patrons prefer Eccles Library has a presence in it.

For more information on social networking software contact Todd Vandenbark; 801-581-5263.

Ceiling Project Flickr Slideshow by Todd Vandenbark

TV-Dec 3, 2009
MLA Releases Web-based Health Information Literacy Tutorial

The Medical Library Association (MLA) is happy to announce the availability of a new free, web-based health information literacy tutorial, *Prescription for Information: Addressing Health Information Literacy*. The *Prescription for Information* tutorial is for health care professionals and emphasizes the importance of health literacy and the challenges patients face with understanding medical terminology. The tutorial also helps participants recognize the impact that low health literacy has on patient care and learn about quality health information resources and strategies available to them and their patients. It also describes health literacy services provided by medical librarians.

The *Prescription for Information* tutorial, developed by Gail Kouame, consumer health coordinator, National Network of Libraries of Medicine, Pacific Northwest Region, University of Washington-Seattle, is based on *Putting Information into Health Literacy: The Health Information Literacy Curriculum*, developed by Sabrina Kurtz-Rossi on behalf of MLA. Both the tutorial and health information literacy curriculum were produced as part of MLA's Health Information Literacy Research Project, funded under National Library of Medicine (NL) contract HHSN276200663511/NO1-LM-6-3511, with co-principal investigators Jean P. Shipman, AHIP, FMLA, and Carla J. Funk, CAE. The curriculum was developed with input from more than 1,100 health professionals in the United States and Canada, who found the content of the session useful to their practices.

The free tutorial and two versions of the mediated curriculum are available on MLA's Health Information Literacy site.

The Medical Library Association, a professional nonprofit educational organization, comprises health sciences information professionals with more than 4,000 members worldwide. Through its programs and services, MLA provides lifelong educational opportunities, supports a knowledgebase of health information research, and works with a global network of partners to promote the importance of quality information for improved health to the health care community and the public.
Introducing . . . Todd Vandenbark

Todd Vandenbark began serving as the Spencer S. Eccles Health Sciences Library Web Services Librarian on July 22, 2009. His role will be to lead the library's effort to develop a state-of-the-art web presence that responds effectively to the needs of its patrons and communities. He will also assist with the library's educational programs by developing classes on new Web technologies and teaching curriculum-integrated courses, as well as providing reference services to library patrons.

Todd began his association with libraries by serving as a student volunteer at his junior high and high school libraries. He went on to work in a variety of employment settings after college: lifeguard, daycare teacher, research assistant, school bus driver, data entry, martial arts instructor, telecom customer service rep, webmaster and Keebler elf. Most recently, Todd worked as a part-time temporary Special Projects Developer at Ball State University Libraries in Muncie, Indiana.

Todd received his B.A. in Psychology from Luther College in Decorah, Iowa, followed by extensive coursework in Early Childhood Education at the University of Minnesota, Minneapolis campus. He received his Masters of Library Science and Technology Management at the School of Library and Information Science, Indiana University, Indianapolis campus, in May 2009, where he also worked as a Graduate Assistant on the Shaping Outcomes Project managing their website and providing technical support to instructors and participants.

Besides spending time with his wife, Marie, and two daughters (Alissa, age 9, and Sonia, age 18), Todd enjoys reading, swimming, biking, hiking, camping, playing folk and children's music and storytelling.

TV - August 7, 2009
Welcome Kathleen Amos!

Welcome to Kathleen Amos, who started with the Spencer S. Eccles Health Sciences Library at the end of August 2009 as a second year National Library of Medicine (NLM) Associate Fellow. Ms. Amos spent a year as a fellow at NLM in Bethesda, MD, and with a second year award, she will have the opportunity to work with the Eccles Library staff to learn more about how our health sciences library operates and how we partner with our campus and community constituencies. Ms. Amos is one of three NLM first year fellows to have this second year opportunity.

Ms. Amos brings a lot of experience to her fellowship. She "received her MLIS in May 2008 from Dalhousie University in Halifax, Nova Scotia and also holds a BA in Sociology and Social Anthropology from Dalhousie. She has experience in cataloging and database management as a student assistant in an academic library, as well as varied practicum experience in the Health Sciences Library and the Family Resource Library of the Izaak Walton Killam Health Centre. She has been involved as a volunteer with a patient record database at the Maritime Medical Genetics Service and served as the Secretary for the Dalhousie University Student Chapter of the Canadian Library Association" [from NLM website].

Please join us in welcoming Ms. Amos to the University of Utah!

JPS-August 7, 2009
Cool Tools - Gliffy

While many people are familiar with the most popular Web 2.0 applications such as Wikipedia and Facebook, there are a number of free and useful tools available for creating professional-looking projects. Gliffy is an online diagramming software package that allows users to quickly and easily "create professional-looking flowcharts, diagrams, floor plans, technical drawings, and more." It is also a great way to quickly create website maps, diagram entity relationships, and develop prototype user interfaces. Users can share, print, or export any diagram created for use elsewhere. If you can click-and-drag using your computer mouse, and type a few letters, you can use Gliffy.

To get started, sign up at the Gliffy home page. Gliffy offers two types of accounts - free and premium. When you first sign up for an account you get a free 30-day trial at the premium level. This reverts to a free basic account level unless you pay a quarterly subscription fee. As Gliffy is web-based, there is no software to install, and it is compatible with both Windows and Mac platforms, as well as all major Web browsers.

Drag-and-drop shapes from Gliffy's extensive library to create a diagram. Click and drag to connect shapes with lines that shift and adjust as you move the shapes around. Add text inside shapes, labels outside shapes, and use color to distinguish and clarify different portions of the drawing. You can even upload images (up to 2 MB) to use in the diagrams. Gliffy allows users to collaboratively edit drawings by emailing a link to colleagues. Once finished, drawings can be published on the Web or exported in various graphic formats (JPEG, SVG, or PNG). Gliffy does add its logo and an advertising tag line to the bottom of each exported image, but these are easily removed using image-editing software such as Adobe Photoshop, Fireworks, Gimp, Image Well, OpenOffice Draw and others.

Gliffy feature summary:

- Basic account: free with a limit of 20 MB image uploads
- Premium account: $5/month, paid quarterly; multi-user and institutional subscriptions available; ad-free
- Unlimited number of drawings allowed at both levels
- Forum and online help features
- Revision control
• Export diagrams as images
• Publish diagrams to blogs and websites

Cool Tools Disclaimer: The user assumes full responsibility for use of applications or technology.

TV-August 16, 2009
Tools for Data Mining

According to the May 2009 issue of the AAMC Reporter, March 9, 2009 marked the day President Obama overturned the federal ban on embryonic stem cell research. With this announcement it is anticipated there will be an increase in this area of research. Academic institutions will be playing an enormous role as research centers across the U.S. prepare to request federal funds.

The Spencer S. Eccles Health Sciences Library views this as an opportunity to promote the many online databases, tools and utilities from the National Center for Biotechnology Information (NCBI) that exist to support researchers who need data to better understand the molecular processes affecting human health and disease.

An annotated list of the NCBI online databases, tools and utilities follows. These NCBI resources are freely available to anyone with access to the Internet. The NCBI Tools for Data Mining website presents six categories of interest:

1. **Nucleotide Sequence Analysis**
2. **Protein Sequence Analysis and Proteomics**
3. **Structures**
4. **Genome Analysis**
5. **Gene Expression**
6. **Tools for Programmers**

If you have any questions about these databases, please contact Jeanne Le Ber (801-585-6744), Education and Research Librarian at the Eccles Library for more information.

1. **Nucleotide Sequence Analysis**
   - The Basic Local Alignment Search Tool (BLAST) for comparing gene and protein sequences against others in public databases now comes in several types including PSI-BLAST, PHI-BLAST, and BLAST 2 sequences. Specialized BLASTs are also available for human, microbial, malaria, and other genomes, as well as for vector contamination, immunoglobulins, and tentative human consensus sequences.
   - Electronic PCR - allows you to search your DNA sequence for sequence tagged sites (STTs) that have been used as landmarks in various types of genomic maps. It compares the query sequence
against data in NCBI's UniSTS, a unified, non-redundant view of STSs from a wide range of sources.

- **Entrez Gene** - each Entrez Gene record encapsulates a wide range of information for a given gene and organism. When possible, the information includes results of analyses that have been done on the sequence data. The amount and type of information presented depend on what is available for a particular gene and organism and can include: (1) graphic summary of the genomic context, intron/exon structure, and flanking genes, (2) link to a graphic view of the mRNA sequence, which in turn shows biological features such as CDS, SNPs, etc., (3) links to gene ontology and phenotypic information, (4) links to corresponding protein sequence data and conserved domains, (5) links to related resources, such as mutation databases. Entrez Gene is a successor to LocusLink.

- **Model Maker** - allows you to view the evidence (mRNAs, ESTs, and gene predictions) that was aligned to assembled genomic sequence to build a gene model and to edit the model by selecting or removing putative exons. You can then view the mRNA sequence and potential ORFs for the edited model and save the mRNA sequence data for use in other programs. Model Maker is accessible from sequence maps that were analyzed at NCBI and displayed in Map Viewer.

- **ORF Finder** - identifies all possible ORFs in a DNA sequence by locating the standard and alternative stop and start codons. The deduced amino acid sequences can then be used to BLAST against GenBank. ORF finder is also packaged in the sequence submission software Sequin.

- **Organism Specific Resources** - Bee, Cat, Chicken, Cow, etc.

- **SAGEmap** - provides a tool for performing statistical tests designed specifically for differential-type analyses of SAGE (Serial Analysis of Gene Expression) data. The data include SAGE libraries generated by individual labs as well as those generated by the Cancer Genome Anatomy Project (CGAP), which have been submitted to Gene Expression Omnibus (GEO). Gene expression profiles that compare the expression in different SAGE libraries are also available on the Entrez GEO Profiles pages. It is possible to enter a query sequence in the SAGEmap resource to determine what SAGE tags are in the sequence, then map to associated SAGEtag records and view the expression of those tags in different CGAP SAGE libraries.

- **Spidey** - aligns one or more mRNA sequences to a single genomic sequence. Spidey will try to determine the exon/intron structure, returning one or more models of the genomic structure, including the genomic/mRNA alignments for each exon.

- **Splign** - is a utility for computing cDNA-to-Genomic alignments based on a variation of the Needleman-Wunsch algorithm combined with Blast for compartment detection and greater performance.

- **VecScreen** - a tool for identifying segments of a nucleic acid sequence that may be of vector, linker, or adapter origin prior to sequence analysis or submission. VecScreen was developed to combat the problem of vector contamination in public sequence databases.

- **Viral Genotyping Tool** - a web-based program that identifies the genotype (or subtype) of recombinant or non-recombinant viral nucleotide sequences. It works by using BLAST to compare a query sequence to a set of reference sequences for known genotypes. Predefined reference genotypes exist for three major viral pathogens:
human immunodeficiency virus 1 (HIV-1), hepatitis C virus (HCV) and hepatitis B virus (HBV), as well as for poliovirus. User-defined reference sequences can be used at the same time. The query sequence is broken into segments for comparison to the reference so that the mosaic organization of recombinant sequences is revealed. The results are displayed graphically using color-coded genotypes. Therefore, the genotype(s) of any portion of the query can quickly be determined.

2. **Protein Sequence Analysis and Proteomics**

- **The Basic Local Alignment Search Tool** (BLAST) for comparing gene and protein sequences against others in public databases, now comes in several types including PSI-BLAST, PHI-BLAST, and BLAST 2 sequences. Specialized BLASTs are also available for human, microbial, malaria, and other genomes, as well as for vector contamination, immunoglobulins, and tentative human consensus sequences.
- **BLink** - ("BLAST Link") displays the results of BLAST searches that have been done for every protein sequence in the Entrez Proteins data domain.
- **CD Search** - search the Conserved Domain Database with Reverse Position Specific BLAST.
- **CDART** - when given a protein query sequence, CDART displays the functional domains that make up the protein and lists proteins with similar domain architectures.
- **Open Mass Spectrometry Search Algorithm** (OMSSA) - The OMSSA search service allows proteomics researchers to submit the mass spectra of peptides and proteins for identification. OMSSA then compares these mass spectra to theoretical ions generated from data libraries of known protein sequences and ranks the results using a score derived from classical hypothesis testing.
- **TaxPlot** - a tool for 3-way comparisons of genomes on the basis of the protein sequences they encode. To use TaxPlot, one selects a reference genome to which two other genomes are compared. Pre-computed BLAST results are then used to plot a point for each predicted protein in the reference genome, based on the best alignment with proteins in each of the two genomes being compared.

3. **Structures**

- **Cn3D** - Cn3D is a helper application for your web browser that allows you to view 3-dimensional structures from NCBI's Entrez retrieval service. Cn3D runs on Windows, Macintosh, and Unix.
- **VAST Search** - VAST Search is NCBI's structure-structure similarity search service. It compares 3D coordinates of a newly determined protein structure to those in the MMDB/PDB database.
- **CD Search** - search the Conserved Domain Database with Reverse Position Specific BLAST.

4. **Genome Analysis**

- **Entrez Genomes** - whole genomes of over 1000 organisms. The genomes represent both completely sequenced organisms and those for which sequencing is in progress. All three main domains of life - bacteria, archaea, and eukaryota - are represented, as well as many viruses, phages, viroids, plasmids, and organelles.. Entrez Genomes provides graphical overviews of complete genomes/chromosomes and
the ability to explore regions of interest in progressively greater detail.

- **COGs - Clusters of Orthologous Groups** - a natural system of gene families from complete genomes. Clusters of Orthologous Groups (COGs) were delineated by comparing protein sequences encoded in 43 complete genomes, representing 30 major phylogenetic lineages. Each COG consists of individual proteins or groups of paralogs from at least 3 lineages and thus corresponds to an ancient conserved domain.

- **Map Viewer** - shows integrated views of chromosome maps for many organisms, including human and numerous other vertebrates, invertebrates, fungi, protozoa, and plants. Map Viewer is used to view assembled genomes (either draft or complete) and is a valuable tool for the identification and localization of genes and other biological features. Multiple map displays are aligned based on shared marker and gene names when available, and sequence map displays are based on a common sequence coordinate system. Sequence data for chromosome regions of interest can be downloaded, biological annotations can be viewed in graphical format and/or downloaded in tabular format, and gene models can be manipulated in the associated ModelMaker tool.

- **SKY/M-FISH & CGH Database** - The NCI and NCBI SKY/M-FISH and CGH Database is a repository of publicly submitted data from Spectral Karyotyping (SKY), Multiplex Fluorescence In Situ Hybridization (M-FISH), and Comparative Genomic Hybridization (CGH), which are complementary fluorescent molecular cytogenetic techniques. SKY/M-FISH permits the simultaneous visualization of each human or mouse chromosome in a different color, facilitating the identification of chromosomal aberrations; CGH can be used to generate a map of DNA copy number changes in tumor genomes. Collaborative project with the National Cancer Institute. (data submission instructions...)

5. **Tools - Gene Expression**

- **GEO Gene Expression Omnibus** - The Gene Expression Omnibus (GEO) provides several tools to assist with the visualization and exploration of GEO data. Datasets may be viewed as hierarchical cluster heat maps, providing insight into the relationships between samples and co-regulated genes. Individual gene expression profiles showing significant differences between experimental subsets may be located using average subset rank value comparisons. Related gene expression profiles may be identified on the basis of sequence similarity, profile similarity, or homology. Indicators of dataset normalization quality are provided as distribution graphs, and by flagging outliers. Links to other NCBI sequence, mapping and publication database resources are provided where possible.

- **SAGEmap** - provides a tool for performing statistical tests designed specifically for differential-type analyses of SAGE (Serial Analysis of Gene Expression) data. The data include SAGE libraries generated by individual labs as well as those generated by the Cancer Genome Anatomy Project (CGAP), which have been submitted to Gene Expression Omnibus (GEO). Gene expression profiles that compare the expression in different SAGE libraries are also available on the Entrez GEO Profiles pages. It is possible to enter a query sequence in the SAGEmap resource to determine what SAGE tags are in the sequence, then map to associated SAGEtag records and view the expression of those tags in different CGAP SAGE libraries.
• **The Cancer Genome Anatomy Project** (CGAP) - aims to decipher the molecular anatomy of cancer cells. CGAP develops profiles of cancer cells by comparing gene expression in normal, precancerous, and malignant cells from a wide variety of tissues.

• **UniGene DDD - Digital Differential Display** - an online tool to compare computed gene expression profiles between selected cDNA libraries. Using a statistical test, genes whose expression levels differ significantly from one tissue to the next are identified and shown to the user. Additional information about UniGene is above, including a list of organisms represented.

6. **Tools for Programmers**

• **Entrez Programming Utilities** - E-Utilities are a set of programs that provide a stable interface into the Entrez retrieval system. The eUtils use a fixed URL syntax that translates a standard set of input parameters into values necessary for various NCBI software components to search for and retrieve data from 23 Entrez databases.

• **Information Engineering Branch** - IEB is responsible for developing NCBI's resources and databases. Access is provided to documentation, access to NCBI software tools and libraries, and announcements.

JB-August 16, 2009
New Resources Available for Scholarly Research

The Libraries at the University of Utah have recently subscribed to a number of new resources for scholarly research. The following resources will be of particular interest to the Health Sciences Center campus.

JAMA and Archives Backfiles

The University of Utah community now has online access to the American Medical Association’s journals including JAMA and the Archives journals dating back to 1883. The JAMA&Archives Backfiles include the following:

- **JAMA** 1883-present
- **Archives of Dermatology** 1920-present
- **Archives of Family Medicine** 1992-2000
- **Archives of General Psychiatry** 1959-present
- **Archives of Internal Medicine** 1908-present
- **Archives of Neurology** 1959-present
- **Archives of Neurology & Psychiatry** 1919-present
- **Archives of Pediatrics & Adolescent Medicine** 1911-present (formerly American Journal of Diseases of Children)
- **Archives of Ophthalmology** 1929-present
- **Archives of Otolaryngology-Head & Neck Surgery** 1925-present
- **Archives of Surgery** 1920-present

Scopus

Courtesy of the J. Willard Marriott Library, the University of Utah community can search Scopus, "the largest abstract and citation database of research literature and quality web sources" covering scientific, medical and technical information. "Updated daily, Scopus covers 29 million abstracts of over 15,000 peer-reviewed titles from more than 4,000 publishers, 265 million references, [23 million patent records from 5 patent offices] and 265 million quality web pages through Scirus' web search to cover the scientific web" from 1996 to the present.

In addition to finding scholarly literature, "use the Journal Analyzer to compare up to 10 Scopus sources on a variety of parameters such as the total number of citations, articles published, percentage of articles not cited, and trend line." Use the Citation Tracker to find out "how often articles have been cited."

To learn more about searching Scopus check out their online tutorials or check the Eccles Library Workshops @ the Library page for training sessions.
**Note:** Web of Science (Science Citation) will no longer be available after December 2009.

For more information about these new resources, contact Reference; 801-581-5534

MMM-Aug 17, 2009
Wimba Virtual Consultation with a Health Sciences Librarian

Consult with a health sciences librarian from the ease and comfort of your computer. Need assistance with searching PubMed or developing effective search strategies? Want to know more about Scopus? The Spencer S. Eccles Health Sciences Librarians are offering virtual consultation to the University of Utah campus using Wimba, a virtual meeting environment. Wimba allows online sharing of video, audio, desktop, websites, presentation slides, documents, whiteboard, and chat. Think of Wimba as an alternative consultation and instruction space.

Visit our Ask A Librarian page to schedule a virtual Web consultation with a health sciences librarian.

University of Utah staff and faculty can activate their own Wimba room via the Campus Information System. You do not need to activate your own Wimba Room to take advantage of the library’s Virtual Consult service. See the Technology Assisted Curriculum Center's (TACC) website for more information about Wimba.

MMM-Aug 17, 2009
Open Access Week: Expanding Research and Increasing Impact

Sponsored by the J. Willard Marriott Library at the University of Utah, Open Access Week features national leaders and local experts addressing the many issues related to disseminating, accessing and re-using the results of scholarly and creative research. Open Access Week 2009 is scheduled for October 19-23.

The keynote address will be given by distinguished professor and noted author Dr. John Willinsky. Dr. Willinsky will discuss *Openness and the Value of Learning: The Intellectual Property Argument.* (Monday, October 19 at 11:00 a.m. in the Marriott Library Gould Auditorium)

Among other events, Utah poet laureate Katherine Coles participates on a panel that addresses open access to poetry, fine arts, music and humanities. (Thursday, October 22).

During Open Access Week, authors and creators can learn how to increase innovation by offering the path of least resistance to their work and gain the attention of readers, viewers and listeners. Administrators can learn ways for the University to raise its profile and impact both funding levels and community engagement. And all scholars can discover means for fostering new growth, advancing their discipline, and attracting new learners to their area of expertise.

For a list of events, dates, and times, visit the [Open Access Week website](http://ojs.med.utah.edu/index.php/esynapse/rt/printerFriendly/94/171). All events are free and open to the public.

If you have questions, contact Allyson Mower, Scholarly Communications and Copyright Librarian; 801-585-5458.

AM-JML August 16, 2009
J. Willard Marriott Library Rededication Planned!

On August 3, 2009 the west entrance of the J. Willard Marriott Library reopened, marking the completion of a four-year building-wide renovation project. On the evening of October 2, 2009 the library will host a special celebration for University of Utah students, complete with a D.J., dancing, movies, and a burrito extravaganza. On October 26, 2009 the library will be formally rededicated with a program that includes an address by former First Lady Laura Bush.

New spaces in the Marriott Library include the Grand Reading Room and adjoining Garden Terrace, which foster quiet study and reflection. The Knowledge Commons, an information rich and technology-intensive student center, embodies the integrated 21st century library. Mom’s Café on level one provides seating for 70. Other features include the Advanced Technology Studio to support digital scholarship, the Automated Retrieval Center (ARC) for efficient robotic collection management, 20 high-tech classrooms, and state-of-the-art preservation facilities.

Watch for a full story about the Marriott Library renovation in the fall issue of Continuum.

For more information contact Mary Ross; 801-581-7791.

J. Willard Mariot Library at night.

MR-August 17, 2009
Farmers Market Comes to the Health Sciences Campus

A mini version of the University of Utah Farmers Market is coming to the Health Sciences campus on Thursdays beginning August 20 through October 8, 2009. The market will be open from 9:00 a.m. to 2:00 p.m. Look for the booth on the plaza west of the Spencer F. and Cleone P. Eccles Health Sciences Education Building. The market will offer a variety of local produce from Tagge’s farms.

The Farmers Market is sponsored by numerous campus groups: WellU, University Health Care, Lowell Bennion Community Service Center, Office of Sustainability, and the Student Health Advisory Committee. The mission of the University's Farmers Market is "To enable students, faculty, staff, and the surrounding community to purchase fresh, healthy, local produce and unique arts and crafts where they live, work and study; and to promote a culture of health, wellness, sustainability, and local economic development."

We are delighted to be a part of this fun and worthy effort - so bring your recycled shopping bag and plan to shop.

Photo's by Joan M. Gregory