University of Pittsburgh

Health Sciences Library System

Annual Report
FY 2015-2016

Falk Library of the Health Sciences serves as the home of the Health Sciences Library System, (HSLS), with a wide-ranging collection of biomedical and health-related journals and monographs along with a specialized collection of rare and historical materials. The library offers computing and Internet access, as well as educational, productivity, and research software packages. There are more than 70 publicly-available computers including circulating laptops, as well as two classrooms equipped for group computer instruction and eight group study rooms. The University's wireless network is available throughout the library. Falk Library is open 108.5 hours per week. The HSLS staff includes 25.75 FTE faculty librarians, and 23.6 FTE paraprofessional and technical staff.

The accomplishments and activities described in this Annual Report are organized in accordance with goals identified in the *HSLS Long Range Plan, 2011/12-2016/17.*

GOAL 1: Acquire knowledge-based information resources in appropriate formats to meet the needs of the health sciences community at the University of Pittsburgh and the University of Pittsburgh Medical Center (UPMC).

The economic climate of recent years demands that we build and manage our collection in the most cost-effective way. Subscription costs continue to rise at rates far above general inflation. In response to the changing needs of our diverse user population, we carefully analyze usage statistics, publication patterns and other metrics to identify materials to be discontinued and new items to be added. The results support a robust HSLS online collection of e-journals, e-books, databases, and specialized software. Library users have access to more than 8,200 electronic journals in the health sciences, as well as 3,940 e-books and 117 databases or publisher collections of full-text information. Our current collection is almost completely electronic: in FY16, less than one percent of our collections budget was spent on essential print materials that were unavailable electronically.

In FY16, we added over 930 new e-resources, including more than 450 new ebooks. New resources include JAMA Cardiology, Nature Microbiology, and Nature Review Disease Primers.

One area where HSLS is clearly "head and shoulders" above other academic health sciences libraries is our licensing of molecular biology software. HSLS licenses 14 molecular biology software packages for Pitt's research community. We now have a total of 3,424 registered users, an increase of 1545 (45%) over the previous year.

One of the more effective means of measuring the impact of these software resources on scientific research is the number of published articles in peer-reviewed journals that mention the software programs used. Authors customarily describe the software used in the "Materials and Methods" section of their articles. We searched the full-text of open access journal articles to identify recent published articles by Pitt researchers that cite the use of HSLS licensed software tools. These papers give a good picture of software usage, albeit only a partial picture, because journals that are not open access (e.g. Cell Science, Nature, etc.) are not included. Below is the list of HSLS licensed software cited in articles written by Pitt scientists:

- Ingenuity IPA: 144 articles
- Sequencher: 94 articles
- Biobase Transfac: 62 articles
- GeneSpring: 53 articles
- Partek: 35 articles
- Lasergene: 35 articles
- Metacore: 23 articles
- CLC Genomics: 12 articles
- NextBio: 6 articles
- Biobase HGMD: 4 articles
- Vector NTI: 42 articles

New Qiagen products added this year include Ingenuity Variant Analysis, Biomedical Genomics Workbench, CLC Microbial Genomics Module, and CLC Genome Finishing Module. With the addition of these new products, HSLS continues to lead academic health sciences libraries in the scope of bioinformatics software available to our users.

As part of our efforts to expand the availability of electronic books and to ensure that these meet the needs of our user population, the library instituted a PDA (Patron Driven Acquisition) Plan in FY14. This plan allows us to borrow and purchase ebooks from the distributor as our library users need them. In 2015-16, 80 ebook purchases were triggered by patron use.

The library licenses DistillerSR, a data management tool for systematic review projects; this resource is available to systematic review research teams that include an HSLS librarian. In FY16, 87 researchers, working on 24 SR projects, initiated DistillerSR accounts.

GOAL 2: Provide effective access to local and remote information to meet the needs of a diverse user community

HSLS supports health sciences students by providing high-powered and well-equipped desktop computers, powerful software packages, circulating laptops and tablet computers, group study rooms, well-maintained classrooms and a Technology Help Desk.

The HSLS Web site is the entry point to the wide range of HSLS resources and services. This site, on average, hosts over 117,000 sessions per month, totaling over 1,414,180 page views per year. Access from tablets or smartphones increased by 59% in FY16, totaling over 47,500 sessions. In FY16, HSLS hosted over 363 HSLS classes and events within Falk's classrooms, conference rooms and nontraditional Library learning spaces.

In early 2016, the HSLS front page was redesigned to provide additional focus on the instructional, research and clinical services provided by HSLS. The slide show has proven to be a popular addition with over 340 clicks to explore instructional, research and clinical services.

HSLS's federated discovery technology, powered by IBM Watson Explorer, continue to enhance education, research and clinical information needs as shown by over 700 searches per day.

A new discovery tool, search.bioPreprint, was developed this year, through a collaboration between HSLS Digital Library Services and the HSLS Molecular Biology Information Service. search.bioPreprint allows researchers to search four preprint databases to discover cutting edge, yet-to-be published or reviewed biomedical research articles. It conducts a federated search of the following preprint servers: arXiv (Quantitative Biology), bioRxiv, F1000Research, PeerJ Preprints. A bioPreprint bookmarklet, a one-click web browser add-on that connects every text appearing on a web page with the bioPreprint search engine, was also developed. This unique discovery tool is openly available on the HSLS website. It has garnered significant positive attention in the world-wide scientific community, and was demonstrated at the ASAPBio meeting in Bethesda in February 2016, attended by former heads of NIH, publishers and scientists.

At the end of June 2015, Falk Library launched a redesigned Web site for the rare book and special collections. In FY16, two new resources were made live on the Rare Book and Special Collections website:

- Psychiatry Collection – a guide to our historical materials in psychiatry
- Early Works on Animal Magnetism – an online exhibit highlighting books on animal magnetism from our collection.

Medical Humanities Dissertations is a guide featuring selected, recent doctoral dissertations listed according to topic and date of entry in *Dissertation Abstracts*. Interested users may receive monthly updates.

In FY16, circulating laptops continued to be popular with library users, with over 375 check-outs. Other equipment, such as headphones, external drives and charging stations, are also popular, with over 1,400 circulated items. This year, four new laptops, including two MacBooks, were added to the circulating collection.

Our state-of-the-art scanning equipment has been well received by our user community, as shown by over 28,000 scans in the first year of the technology's availability.
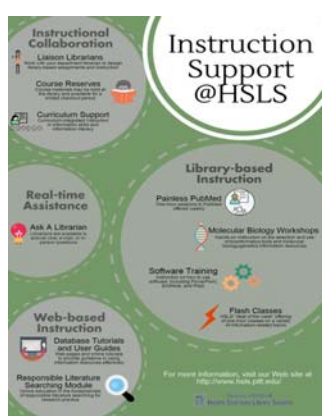
Falk Library's Group Study Rooms continue to be a popular location for Health Sciences students, staff and faculty. New booking software was introduced, and the four oldest group study rooms were upgraded with new display technology. In FY6, over 3,500 health sciences groups logged over 12,500 usage hours in the eight group study rooms.

To better support the information needs of our user community and to coordinate our service policies with other Pitt libraries, HSLS eliminated user fees for Document Delivery Service in FY16. To date, there are over 900 active Document Delivery accounts, a 51% increase from the previous year. The Document Delivery Service filled 6,918 requests in FY16, only 3% of which were from HSLS collections. Rapid turnaround time ensures that health sciences faculty,

students and staff have quick access to virtually all high quality foreign and domestic heath sciences publications produced in the last two centuries.

GOAL 3: Develop effective strategies to enhance information literacy and use of information resources.

"Reference Services" underwent a name change in FY16 to become "Research, Instruction, and Clinical Information Services" (RICIS). The new name more accurately reflects the changing roles and expertise of the department. Three interactive infographics, reproduced below, were designed to represent the three service areas: research, instruction, and clinical. These infographics are physically displayed in the library and represented on the front page of the website, with hot links leading to additional information. Job titles of the reference librarians were changed as well: most are now Research & Instruction Librarians.

Liaison Librarian Instruction

Each school has one or more liaison librarians, who provide extensive group and individualized instruction within undergraduate and graduate course curricula and as guest lecturers, consult with faculty on research, serve on curriculum committees, offer instruction at faculty meetings, etc. In FY16, a new liaison to Medical Education was added to strengthen the library's support to medical students and medical education faculty. Three liaison librarians have secondary faculty appointments in their schools. Each of the liaisons provides lectures and hands-on instruction to hundreds of students. Attendees totaled 2,200 students in 75 sessions.

Instruction in molecular biology information resources was provided to graduate and undergraduate students in several courses, including CLRES 2700, Fundamentals of Bench Research; HUGEN 2040, Molecular Basis of Human Inherited Disease; Pittsburgh Institute of Neurodegenerative Diseases Weekly Seminar; and MD/Ph.D. Students Summer Training (MSTP) & Physician Scientist Training Program (PSTP).

HSLS librarians are often asked to provide health sciences-related instruction to groups outside of the six schools of the health sciences. In FY16, these included classes in the following programs or departments:

- Sports Science Research
- Medical Sociology in the Department of Sociology
- Library and Information Sciences (iSchool)

- Tsinghua University Scholars & Xiangya University Scholars
- Summer Undergraduate Research Program (SURP)
- Vascular Medicine Institute
- High school student summer programs, including the Health Career Scholars Academy and the University of Pittsburgh Cancer Institute Academy for High School Students.

In-house instruction

Based on just-in-time scheduling, the FlashClass system proposes one or two topics each week and invites HSLS patrons to sign up for a one-hour class the following week. If enough people sign up, they are notified and the class is held. If not, the class is canceled. Last year, we offered 64 sessions to 256 attendees. Eleven of these sessions were offered as webinars to 80 attendees.

Four new FlashClasses were added this year:

- Copyright and Fair Use in Educational Settings
- EndNoteE for Systematic Reviews: Are You Ready?
- SciENcv: Automate Your Biosketch
- Searching for Dollars: Grant Seeking to Support Research was added as a webinar

Some FlashClass topics are requested by departments or groups for additional sessions. For example, one of the librarians was invited to provide the PechaKucha FlashClass for 15 teams of grant finalists in the *CTSI Pain Challenge*. Interestingly, while some of the 15 teams chose not to attend the PechaKucha FlashClass, each of the 4 teams who were awarded grants did send one or more team member to the class.

Painless PubMed workshops were offered weekly throughout the year, attracting 80 attendees. EndNote workshops continue to be popular, with 70 people attending the 12 sessions offered in FY16. Digital Library Services continues to offer PowerPoint for Conference Posters, Prezi for Presentation, and Advanced Prezi workshops.

Molecular Biology's Wednesday workshop series covered 6 bioinformatics topics, and were offered 16 times to 177 attendees. New topics this year included next-generation sequence-based data analysis, RNA-Seq analysis and exome sequencing. An outside vendor taught one workshop, Affymetrix Transcriptome Analysis Console and Expression Analysis Console, with 15 attendees.

Librarians provided workshops as part of the CTSI Responsible Conduct of Research (RCR) Center on the following topics:

- 3R" Literature Searching for IACUC Protocols;
- Data Management Plans;
- NIH Policy for Genomic Data Sharing
- Electronic Lab Notebook.

Major revisions and updates were made to the Responsible Literature Searching for Research: A Self-Paced Interactive Educational Program online module.

SPRINGBOARD is a yearlong required orientation program for new faculty investigators in the schools of the health sciences. Librarians provided an overview of HSLS, h-index and altmetrics, and how to locate grant funding during one session of the program.

PostDoc Talks are a "how to" workshop series taught by postdoctoral associates/fellows as a collaboration between the HSLS Molecular Biology Information Service (MBIS) and the Center for Postdoctoral Affairs in the Health Sciences. There were four talks during the year, attracting 35 attendees. All postdoc instructors received feedback, a letter of acknowledgment, and a digital recording of their session with the option to have it posted on the HSLS YouTube channel.

MolBio Videos, on the HSLS website, offer more than 100 step-by-step video guides to solve common bioinformatics queries. In the past year, videos were viewed 880 times. The five most popular titles were:

- Find disease causing genes (25 viewers)
- Retrieve a potential promoter sequence of a gene (19 viewers)
- Identify promoter, enhance and silencer sequences by browsing the epigenomic markers generated by the ENCODE project (Part 1) (16 viewers)
- Identify common microRNA binding sites present in a list of down-regulated genes (N = 14 viewers)
- Identify promoter, enhance and silencer sequences by browsing the epigenomic markers generated by the ENCODE project (Part 2) (11 viewers)

Librarians provided the following clinical instruction:

- One-on-one instructional consultations with Transitional Year Emergency Medicine Residents researching their topics for case presentations (monthly from September 2015 through May 2016
- Instruction as part of Leadership and Discovery (LEAD) Program for internal medicine house staff
- Instructional sessions for Institute for Clinical Research Education Clinical Research *CLRES 2010: Clinical Research Methods*
- Instruction for Institute for Clinical Research Education Clinical Research *CLRES 2300: Introduction to Systematic Reviews and Meta-Analysis*
- Instruction for Infectious Disease medical staff

Librarians conducted 75 database searches to provide literature support on clinical topics.

GOAL 4: Promote awareness of library services, resources and expertise to a large, diverse, and geographically dispersed user population.

In the past year, HSLS employed a variety of methods to publicize and promote information services. Representative activities are listed below:

- Our home page, www.hsls.pitt.edu, is the library's "electronic front door" and regularly lists News and Announcements

- The HSLS Update online newsletter is published monthly, with information about library news, e-resources, classes and workshops, and future events. The Update is distributed to more than 9,000 subscribers.
- A weekly blog, What's New@HSLS MolBio, promotes the Molecular Biology Information Service by highlighting workshops, licensed tools, and information of interest.
- In December 2014, HSLS debuted our own YouTube channel, Pitt Health Sciences Library System, featuring recordings of special lectures and classes. HSLS YouTube is a featured channel of the University of Pittsburgh's official YouTube presence. In its first year, HSLS content attracted over 7,500 viewers.
- Liaison librarians send information about library activities and resources to school mailing lists
- We provide articles about e-resources for publication in the UPMC Extra newsletter
- HSLS activities are a regular feature on the digital signage monitors throughout Scaife Hall and in Falk Library.

GOAL 5: Nurture and extend partnerships and collaboration with internal and external departments, schools, programs, and organizations.

Internal Partnerships and Collaboration
Individual reference consultations were offered to 425 faculty or students. Of these, 218 were queries related to bioinformatics topics or resources. Librarians conducted almost 300 database searches to provide literature on research topics for faculty and graduate students. In addition, HSLS librarians are viewed as increasingly valuable partners on systematic review (SR) research teams, providing comprehensive database searches, and ensuring that current standard for reporting and methodology are maintained.

Librarians were included as co-authors on nine SR articles in the past year in collaboration with Pitt faculty. Topics include:

- Systematic review of dyadic and family-oriented interventions for late-life depression
- Systematic review and meta-analysis of inhaled toxicants from water pipe and cigarette smoking
- Protocol for systematic reviews in privacy and security in telehealth
- Racial and ethnic health care disparities among women in the Veterans Affairs Healthcare System
- Correlates and outcomes of post-transplant smoking in solid organ transplant recipients
- Measuring nonspecific factors in treatment: item banks that assess the healthcare experience and attitudes from the patient's perspective
- Comparing online with face-to-face HELPP intervention in women experiencing intimate partner violence
- Impact of long-term, high-dose opioid therapy on endocrine function, including therapy in adult patients receiving treatment for chronic non-cancer pain
- Effect of antihypertensive medications on the severity of obstructive sleep apnea

HSLS librarians are funded as consultants or co-PIs on three NIH-funded grants: The Healing Context of CAM Instrument Development (Greco, PI); Multi-Pronged Genetic Studies of Schizophrenia (Nimgaonkar, PI) ; and Tri National Training Program in Psychiatric Genetics, (Nimgaonkar, PI)

Librarians also provide RCR workshops, and four librarians have secondary faculty appointments in the CTSI.

The HSLS Data Management Group continues to expand collaborations with other Pitt departments that have an active interest in data management. The DMPTool, an online system guiding researchers in completing research-mandated data management plans, was made available last year. An important new template is "NIH-GDS: Genomic Data Sharing," written specifically for the new NIH Genomic Data Sharing Policy (GDS). The GDS template customized by HSLS offers suggested responses and guidance from Pitt's IRB and Office of Research (OOR) in one location. In partnership with CSSD, the group has begun to support the use of Lab Archives, an electronic lab notebook, by offering instructional sessions and individual consultations. http://hsls.libguides.com/datamanagement

Through our ORCID initiative, HSLS promoted use of ORCHID, which provides a unique and persistent identifier for researchers, to faculty in the schools of the health sciences. An ORCID identifier helps to make individual scholarship easier to find and attrtibute. We appreciated support from the health sciences deans in helping us to reach out to the faculty and students. Information is available to the Pitt community on our online guide: http://hsls.libguides.com/scholarlycommunication/ORCID

HSLS librarians continued our active collaboration with the Institutional Animal Care and Use Committee (IACUC), since animal researchers must satisfy stringent requirements in documenting compliance, including extensive literature reviews. In the past year, librarians completed 74 IACUC searches, attended monthly IACUC meetings as non-voting members, and created a new online IACUC guide page: http://hsls.libguides.com/c.php?g=36000&p=2578299

Two HSLS librarians are members of the University-wide Research Data Management Committee, led by iSchool visiting professor Dr. Liz Lyons. Other representatives are from the University Library System, Computing Services & Systems Development, Office of Research, and the iSchool.   The goals of this committee are to:

- work toward a shared vision of institutional data infrastructure which potentially operates across scale, disciplines and sites
- leverage multi-institutional partnerships and explore shared data service solutions
- contribute to the operational development, implementation, extension and integration of institutional Data Infrastructure platforms, technologies, tools, advocacy and training.

A white paper with recommendations will be submitted to the Provost over the summer.

HSLS continues to host the School of Medicine's Laboratory for Educational Technology's server environment, including Navigator, Virtual Microscopy, Mediasite and MSSQL database servers. Digital Library Services provides technical expertise; ongoing server-based hardware, firewall and OS support; off-hours security, monitoring and problem solving; assistance with hardware and software migration, and backup and restoration services.

Nine historical Presbyterian Hospital Patients' Record ledgers were gifted to HSLS by UPMC. These ledgers contain hand-written information about each patient admitted to the hospital between 1895 and 1924. For each patient, there are twenty or more pieces of data, including

name, address, age, gender, religion, occupation, marital status, diagnosis, treatment, outcome, etc. The years covered by these records are significant in the history of American hospitals and the city of Pittsburgh, a major industrial center that saw a huge influx of immigrants during this period. The data in these ledgers are of great interest to historians, epidemiologists, and many others.

In the past year, we entered into an agreement with Digital Divide Data to first have the ledgers digitized for preservation purposes, and then to send the digital copies abroad where the data was keyed in to create a searchable database. A web site and search software are now in development by HSLS Digital Library Services, and we expect to introduce this online resource in FY17. We anticipate that this will be an important historical archive for this region.

External partnerships and collaborations

National Library of Medicine
HSLS is home to the regional office of the National Network of Libraries of Medicine Middle Atlantic Region (NN/LM MAR). The NN/LM program is the core component of the National Library of Medicine's (NLM) outreach program and its efforts to reduce health disparities and improve health information literacy. As one of eight regional medical libraries in the country, we were awarded a five-year federal contract with NLM that ended on April 30, 2016.

During this five-year contract period, the four MAR Librarian Coordinators and the Executive Director recruited new, underserved organizations into the National Network, resulting in a 30% increase in membership, with representation from community health centers, public health departments, critical access hospitals and school nurse associations. Since 2011, MAR librarians have promoted NLM resources to over 25,000 clinicians, public health workers, library staff, and employees of community-based organizations, along with members of the general public by:
- exhibiting at over 200 national, regional and local meetings and conferences and providing 70 workshops and CE opportunities as part of the conference program; and
- offering over 700 educational sessions through a variety of online and in-person learning opportunities.

Over the past five years, MAR also directed over $1.3 million to Network organizations for outreach projects designed to increase awareness and use of government-funded, high-quality biomedical and health information resources.

The RFP for the new five-year period (2016-2021) was issued in April 2015 as a UG4 cooperative agreement, rather than a contract. Proposals were due by July 24, 2015. We were notified in early 2016 that the University of Pittsburgh was again chosen as the Regional Medical Library for NN/LM MAR. The $7,913,438 award includes funding to support a new NN/LM Networked Services Office (NWSO), which is charged with developing and maintaining reliable web services for the nation-wide network in compliance with US Department of Health & Human Services information policies.

In the new cooperative agreement environment, the eight NN/LM regions and five national offices, along with the Coordinating Office at NLM are overseen by a National Network Steering Committee, which includes the MAR Director, MAR Executive Director, NWSO Director and

NWSO Executive Director. The Steering Committee met on the NIH campus in Bethesda for two days in April 2016, and now meets monthly by teleconference.

NLM EXHIBIT: From DNA to Beer (August 31-October 10, 2015)
This exhibit drew from the collections of the National Museum of American History and the National Library of Medicine to promote public understanding of the dynamic relationship between microbes, technology, science and medicine.

During the exhibit's stay in Pittsburgh, HSLS hosted 2 presentations:
- September 17, 2015
  "Background to the discovery of DNA" by Adam Davis, MA
- October 8, 2015
  Erythropoeitin: a case history – the promise and perils of harnessing nature, by Jamie Johnston, MD.

NLM Exhibit: Pictures of Nursing (April 4-May 16, 2016)
This exhibit showcased the Zwerdling collection of over 2,500 nursing-related postcards dated between 1893 and 2011. These postcards illustrate a long history of the nursing profession in the United States and abroad. The library also had on display a set of artifacts on loan from Pitt's School of Nursing, including early handbooks, the lamp and pin received at graduation and a nurse's cap from the 1950's.

A special lecture by Dr. Brigid Lusk from the University of Illinois at Chicago and reception were co-hosted by HSLS and the School of Nursing on April 14, 2016 in Victoria Hall.

Special Exhibit: Acceptance Journeys Pittsburgh: Addressing LGBT stigma through science, the humanities, and social marketing
In February-March 2016, Falk Library hosted this exhibit, developed by the Graduate School of Public Health in conjunction with the Provost's Year of Humanities. The posters for this exhibit were designed with public health messages relating to stigma and featuring local Pittsburghers. As an interactive exhibit, visitors could record their reactions through written notes or recorded audio.

C.F. Reynolds Medical History Society lectures co-sponsored by HSLS:

- 28th Annual Mark M. Ravitch History of Medicine Lecture, April 5th, 2016
  "Huey P. Long's Last Operation: When Medicine and Politics Don't Mix"
  Michael Trotter, MD, Surgeon, Delta Regional Medical Center, Greensville, Mississippi
- "Alligators, Maude Abbott, & the Holmes Heart," February 23rd, 2016
  Clyde Partin, MD, Emory University
- "The Development of Anesthesiology in Pittsburgh: Contributions from the Dental and Medical Professions," January 26th, 2016
  Andrew Herlich, DMD, MD, Professor of Anesthesiology, University of Pittsburgh School of Medicine
- 23st Annual Sylvan E. Stool History of Medicine Lecture, November 3rd, 2015
  "Historical Considerations of Parkinson's Disease, Dopamine and Levodopa"
  Christopher G. Goetz, MD, Professor of Neurological Sciences, Professor of Pharmacology, Rush University Medical Center

- "Knowledge Unbound: Literature of Medicine," September 29, 2015
  Michael E. Moran, M.D., Adjunct Associate Professor of Urology, University of Florida

Library of Congress
As a nationally recognized source of high quality health sciences metadata, HSLS created original metadata for open access health sciences journals via the Cooperative Online Serials (CONSER) Program Open Access Journal Project. In recognition of this contribution, HSLS's MetaData Librarian was once again named the CONSER co-coordinator for FY16 and is responsible for sharing CONSER-related communications with over 20 member institutions.

Systematic Review Workshop
The Systematic Review (SR) Instructional Team has taken a leadership role, locally and nationally, in their research of the SR process and provision of instruction and mentoring for librarians who will be part of SR research teams. The major accomplishment of the SR Team is development of the HSLS *Systematic Review Workshop: The Nuts and Bolts for Librarians*. This 2.5 day workshop, offered onsite in Pittsburgh, provides a comprehensive framework for the librarian's role in the systematic review process, with special emphasis on successful completion of the literature search. The intended outcome is to prepare librarians to serve as a systematic review team collaborator and a facilitator in the systematic review process.

The workshop was offered three times in FY16. To date, the workshop has been offered 21 times to more than 500 health sciences librarians from institutions across the United States and Canada. Tuition to attend the workshop is $500.

Gateway Medical Society
HSLS works with Gateway Medical Society to provide technology-based classrooms for use in their youth program. Gateway's mission is to promote health care and general welfare of minority and socio-economically challenged populations in Southwestern Pennsylvania.

Nightingale Digitization Project
The original Nightingale letters in the HSLS History of Medicine collection were included in this international digitization project. HSLS is considered a founding partner in this collaboration between the Florence Nightingale Museum in London, Boston University, the Royal College of Nursing and the Wellcome Library.

Interlibrary Loan (ILL)
HSLS lends books, book chapters, and articles to libraries around the world through interlibrary loan networks. Nationwide, there continues to be a decreasing amount of interlibrary loan activity. However, HSLS has bucked this trend for two years in a row. In FY15-16, over 15,000 lending requests were filled for more than 550 libraries. In addition to our "frequent borrowers discount program," HSLS has continued to offer a discounted ILL service to Pennsylvania and Delaware hospital libraries with fewer than 500 beds.

In coordination with UPMC, HSLS initiated document delivery service to residents and fellows. This service is reimbursed by UPMC. Year 1 of this program supported over 100 residents and provided over 700 educational and research materials.

GOAL 6: Cultivate an environment of learning for librarians and staff that encourages ongoing assessment and evaluation, creativity, innovation, and growth. Capitalize on new opportunities and challenges as they arise.

The HSLS Management Council meets bi-weekly with the following members:

- o Barbara Epstein, Director (Chair)
- o Nancy Tannery, Senior Associate Director
- o Fran Yarger, Associate Director for Digital Library Services
- o Renae Barger, Executive Director, NN/LM-MAR
- o Ansuman Chattopadhyay, Head, Molecular Biology Information Service
- o Jeffrey Husted, Assistant Director of Collections
- o Charles Wessel, Head, Research Initiatives

Three librarians are enrolled in advanced degree programs at Pitt. Two are in PhD programs and one in a Master degree programs.

HSLS librarians participated extensively in professional development activities, paper and poster presentations at professional meetings, and published in peer-reviewed journals. These activities are listed in Appendix 1.

Other Training
In January 2016, two sessions of Civilian Active Killer Training were scheduled for library staff. Instructors were Pitt Police Department officers trained and certified through the National Tactical Officers Association and the Federal Law Enforcement Training Center. The training included both classroom and hands-on learning in a four-hour block of instruction. This course was geared to give participants an array of tools for critical incidents involving an immediate threat. All staff were encouraged, but not required, to attend; only one person opted out. Evaluations indicated that attendees found the sessions useful in planning for how to respond to unforeseen hostile situations.

GOAL 7: Redefine space to best accommodate the delivery and storage of information resources and services.

While use of the library's digital collection continues to rise, the gate count, or the number of people who enter Falk Library, remains steady.

Maintaining and upgrading the physical spaces in Falk Library is a continuing challenge. As funding permits, we have renovated Falk Library little by little over the past ten years, including the public and staff spaces on the mezzanine floor, and the area on the main floor to the right of the library entry. In the past year, renovation of office space for ten Research and Instruction Librarians, formerly housed in cramped shared spaces that were poorly ventilated and offered little privacy, was completed.

Appendix 1

HSLS Honors, Publications & Selected Presentations & Other Accomplishments

Honors:

Barbara Epstein, HSLS director, began her one-year term as President-elect of the Medical Library Association. As such, she also serves on the Executive Committee of the MLA Board of Directors, and is the Board Liaison to the Government Relations Committee, the Corporate Partners Task Force, the Communities Task Force, and the National Planning Committee for the MLA 2018 Annual Meeting to be held in Atlanta, Georgia.

Barbara Epstein, HSLS director, was named a Fellow of the Medical Library Association (FMLA).

Nancy Tannery was appointed Chair of the Literature Selection and Technical Review Committee (LSTRC) for July 2015–June 2016. A National Library of Medicine committee, LSTRC advises on matters of policy related to the evaluation and recommendation of biomedical publications to be considered for indexing and inclusion in MEDLINE.

Andrea Ketchum was awarded the 2015 Medical Library Association Mid-Atlantic Chapter Award for Professional Excellence by a Health Sciences Librarian.

Melissa Ratajeski was awarded the 2015 Medical Library Association Mid-Atlantic Chapter Marguerite Abel Service Recognition Award. This award recognizes exemplary service to the Chapter during the past year.

Rose Turner and **Linda Hartman** were awarded the Medical Library Association Mid-Atlantic Chapter 2015 First Place Research Poster Award for their poster, *Comparing CINAHL and Scopus Coverage of Allied Health Journals*, at the Chapter's annual meeting in Asheville, NC, October 18-20, 2015.

Carrie Iwema and **Melissa Ratajeski**, received the Medical Library Association's President's Award for their outstanding work implementing new programming procedures for the MLA annual meeting

Andrea Ketchum was awarded a $1,500 scholarship from the Association of Academic Health Sciences Libraries to attend the *Force 11 Conference: The Future of Research Communications and eScholarship* in Portland, Oregon.

Publications (Faculty librarians in bold)

- Publications with Pitt health sciences faculty**:**

Venkatachari NJ, Zerbato JM, Jain S, Mancini AE, **Chattopadhyay A**, Sluis-Cremer N, et al. Temporal transcriptional response to latency reversing agents identifies specific factors regulating HIV-1 viral transcriptional switch. Retrovirology. 2015 Oct 6;12:85.

Stahl ST, Rodakowski J, **Saghafi EM**, Park M, Reynolds CF, Dew MA. Systematic review of dyadic and family-oriented interventions for late-life depression. Int J Geriatr Psychiatry. 2016 Jan 21. doi: 10.1002/gps.4434.

Primack BA, Carroll MV, **Weiss PM**, Shihadeh AL, Shensa A, Farley ST, Fine MJ, Eissenberg T, Nayak S. Systematic Review and Meta-Analysis of Inhaled Toxicants from Waterpipe and Cigarette Smoking. Public Health Rep. 2016 Jan-Feb;131(1):76-85.

Valerie J.M. Watzlaf, Dilhari R. DeAlmeida, Leming Zhou, **Hartman** LM Protocol for Systematic Review in Privacy and Security in Telehealth: Best Practices for Healthcare Professionals. *International Journal of Telerehabilitation*, Fall 2015, 7(2): 15-22.

Carter A, Borrero S, **Wessel C**, Washington DL, Bean-Mayberry B, Corbelli J; VA Women's Health Disparities Research Workgroup. Racial and Ethnic Health Care Disparities Among Women in the Veterans Affairs Healthcare System: A Systematic Review. Womens Health Issues. 2016 Apr 29.

Duerinckx N, Burkhalter H, Engberg S, Kirsch M**, Klem M**, Sereika S, De Simone P, De Geest S, Dobbels F. Correlates and Outcomes of Post-transplant Smoking in Solid Organ Transplant Recipients: A Systematic Literature Review and Meta-analysis. Transplantation. 2016. (in press)

Greco CM, Yu L, Johnston KL, Dodds NE, Morone NE, Glick RM, Schneider MJ, **Klem ML**, McFarland CE, Lawrence S, Colditz J, Maihoefer CC, Jonas WB, Ryan ND, Pilkonis PA. Measuring nonspecific factors in treatment: item banks that assess the healthcare experience and attitudes from the patient's perspective. Quality of Life Research : An International Journal of Quality of Life Aspects of Treatment, Care and Rehabilitation. 2015 Nov 12.

Constantino RE, Braxter B, Ren D, Burroughs JD, Doswell WM, Wu L, Hwang JG, **Klem ML**, Joshi JB, Greene WB. Comparing Online with Face-to-Face HELPP Intervention in Women Experiencing Intimate Partner Violence. Issues in Mental Health Nursing. 2015 Jun;36(6):430-8.

Hacker K, Anies M, **Folb BL**, Zallman L. Barriers to Health Care for Undocumented Immigrants: a literature review. Risk Manag Healthc Policy. 2015 Oct 30;8:175-83.

Gathuru IM, Tarter RE, **Klein-Fedyshin M**. Review of hookah tobacco smoking among college students: policy implications and research recommendations. Am J Drug Alcohol Abuse. 2015;41(4):272-80.

Khurshid K, Yabes J, **Weiss PM**, Dharia S, Brown L, Unruh M, Jhamb M. Effect of antihypertensive medications on the severity of obstructive sleep apnea: A systematic review and meta-analysis. J Clin Sleep Med. 2016. (in press)

Lawrence JD, Frederickson AM, Chang Y, **Weiss PM**, Gerszten PC, Sekula RF. An investigation into quality of life improvement in patients undergoing microvascular decompression for hemifacial spasm. J Neurosurg. 2016. (in press)

Bernstein C, Jarquin S, Brancolini S, Emerick T, Wasan, J, Mills D, **Klein-Fedyshin M**, **L Hartman LM**, The Impact of Long-Term, High Dose Opioid Therapy on Endocrine Function Including Therapy in Adult Patients Receiving Treatment for Chronic Non-Cancer Pain: A Protocol for a Systematic Review in the *PROSPERO International Prospective Register of Systematic Reviews*, 2016: CRD42016037635.

- Other publications

Klem ML, and Abromitis R. Undead PubMed at the University of Pittsburgh. In P. Higgenbottom and V. Gordon (Eds.), Marketing for special and academic libraries: a planning and best practices sourcebook (pp. 112-114). Rowman & Littlefield, 2016

Maggio LA, Durieux N, **Tannery NH**. Librarians in Evidence-Based Medicine Curricula: A Qualitative Study of Librarian Roles, Training, and Desires for Future Development. Med Ref Serv Q. 2015 Oct-Dec;34(4):428-40.

Iwema CL, LaDue J, Zack A and Chattopadhyay A. search.bioPreprint: a discovery tool for cutting edge, preprint biomedical research articles [version 1; referees: awaiting peer review]. *F1000Research* 2016, **5**:1396

Erlen J. "Latest Dissertations in the History of Science, Medicine, and Technology" in *History of Science Society Newsletter*, May 2010: 1-115.

Erlen J. "Disability Studies: Disabilities Abstracts" in *The Review of Disability Studies: An International Journal*, 2016, 11(4).

Erlen J. "New Dissertations," in *Nursing History Review*, 24: 176, 2016

Erlen J. and Jay Toth, "American Indian Dissertation Abstracts," in *Indigenous Policy Journal*, 2015, 27(2): 68.

Carrie Iwema authors book reviews for CHOICE, an ALA publication of "Current Reviews for Academic Libraries"

- Mar 2016 "Becoming fluent: how cognitive science can help adults learn a foreign language"
- Jan 2016 "Life's greatest secret: the race to crack the genetic code"
- Dec 2015 "On the move: a life"
- Nov 2015 "Trees of the brain, roots of the mind"
- Sept 2015   "A history of the brain: from Stone Age surgery to modern neuroscience"
- July 2015 "The Future of the brain: essays by the world's leading neuroscientists"

Selected Papers, Presentations & Posters

Wessel CB, LaDue J, Dahm J. Clinical eCompanion: Development of a Point-of-Care Information Tool. [paper] Medical Library Association Annual Meeting, Toronto, Canada, May 2016

Iwema CL, Zack A and Chattopadhyay A. InfoBundles: using free, simple web tools to dramatically enhance online information retrieval**.** [poster] Medical Library Association Annual Meeting, Toronto, Canada, May 2016

Turner R, Ketchum A, Ratajeski M, Sagahfi E, Wessel CB. Leaving the lecture behind: putting PubMed instruction into the hands of the students**.** [poster] Medical Library Association Annual Meeting, Toronto, Canada, May 2016

Ratajeski M, Iwema C. DMPTool Customization for Researchers Writing Data Management Plans (DMPs). [poster] Medical Library Association Annual Meeting, Toronto, Canada, May 2016

Bonifacino E, Bimla Schwarz E, Jun H, **Wessel CB**, Corbelli J. Effect of Lactation on Maternal Hypertension: A Systematic Review. [poster] 39th Annual Meeting of the Society of General Internal Medicine, Hollywood, FL, May 2016.

Turner R, Hartman LM. Comparing CINAHL and Scopus Coverage of Allied Health Journals [poster] Mid-Atlantic Chapter Medical Library Association Annual Conference, Asheville, NC, October 2015.

Iwema, C.L., Ratajeski, M.A., and Ketchum, A.M. Survey & Statistics: Lessons for Avoiding Survey Design Missteps [paper] Mid-Atlantic Chapter Medical Library Association Annual Conference, Asheville, NC, October 2015.

Iwema CL, LaDue J, Chattopadhyay A. Search.bioPreprint: A Tool for Discovering Cutting Edge, Yet-to-Be Published or Reviewed Biomedical Research Articles**.** [lightning talk] Medical Library Association Annual Meeting, Toronto, Canada, May 2016

Iwema CL, Gau K, Dillon P, Donaldson T. Crafting a Mosaic: Partnerships between Health Sciences Librarians, Postdocs, and More. [lightning talk] Medical Library Association Annual Meeting, Toronto, Canada, May 2016

Fort G. Invisible Ties: the Outliers of the Medical Medals Collection at Falk Library. Pennsylvania Association of Numismatists Fall Coin Show and Convention, Pittsburgh, PA, October 2015.

Yarger F. Keynote speaker. Annual Presbyterian University Hospital Nursing Alumnae Association Meeting, Pittsburgh, PA, September 2015.

Iwema C. Personal Genomics, Personalized Medicine, and You. Health Sciences Library Association, Princeton, NJ, December 2015.

Iwema C. Precision Medicine: What Is It & Why Should I Care? [webinar] Medical Library Association, December 2015.

Klem ML, Wessel CB. A Systematic Method for Selecting Search Terms [webinar] Saskatchewan Health Libraries Association, Regina, Saskatchewan, Canada, December 2015.

Folb B, VonVille H. Systematic Reviews: Tools & Skills for the Background and Methods Sections of Your Review. American Public Health Association Annual Meeting, Chicago, IL, October 2015.

Selected Other Accomplishments & Professional Activities

Barbara Epstein, Renae Barger, John LaDue and **Fran Yarger** are members of the National Network of Libraries of Medicine Steering Committee.

Nancy Tannery chaired the Leadership and Management Section of the Medical Library Association.

Nancy Tannery is a member of the Statistics and Assessment Committee of the Association of Academic Health Sciences Libraries.

Liping Song is the co-coordinator of the Library of Congress CONSER Open Access Cataloging Project.

Nancy Tannery is an Advisory Board Member and Board Secretary for the SUNY at Buffalo Department of Library and Information Studies.

Andrea Ketchum and Michele Klein-Fedyshin are co-chairs of the Medical Library Association's Ad Hoc Committee to Review Core Clinical Journals.

Nancy Tannery and **Melissa Ratajeski** are members of the University-wide Research Data Management Committee.

Mary Lou Klem is the team leader of a group of librarians who are conducting a scoping review of the literature on librarian involvement in promotion of health literacy, a project of the Medical Library Association Research Agenda Group.

Carrie Iwema received the 2016 Medical Informatics Section/ Medical Library Association Career Development Grant.

Carrie Iwema, was Incoming Chair of the Medical Library Association's Continuing Education Committee

Melissa Ratajeski, is the Medical Library Association's Chapter Council Chair and a member of the Medical Library Association's Board of Directors as the Chapter Council Liaison.

Michele Klein-Fedyshin is a *JMLA* Associate Editor

Pat Weiss served as co-chair of Faculty Senate Plant Utilization and Planning Committee

Barb Folb was invited to join an Evidence Based Expert Panel by the Public Health Accreditation Board

Ansuman Chattopadhyay presented 3 workshops at the Centre for DNA Fingerprinting and Diagnostics in Hyderabad, India

Ansuman Chattopadhyay presented InfoBoosters: Connecting Texts with Databases at the Department of Chemistry, Kent State University

Carrie Iwema and **Melissa Ratajeski** were members of the 2016 Medical Library Association/Canadian Health Library Association/International Clinical Librarian Conference Joint Planning Committee.

Julia Dahm is a member of Faculty Assembly.

Gosia Fort is a member of the Bylaws & Procedures and the Election Committees of the Faculty Senate, and she is a member of the Faculty Assembly.

Fran Yarger is a member of the Provost's Technology Accessibiilty Task Force and the Provost's Information Technology Steering Committee.

Fran Yarger is co-chair of the Faculty Senate Computer Usage Committee.

<u>Professional Development Opportunities for HSLS Faculty Librarians</u>

<u>Webinars Attended</u>

NISO Virtual Conference: Evolving Scholarly Communication Models (September 2015)

MLA Instructional Design for Medical Librarians Webinar (November 2015)

AAMC Virtual Medical Educational Event (January 2016)

NISO Virtual Conference: BIBFRAME & Real World Applications of Linked Bibliographic Data (June 2016)

<u>Meetings Attended</u>

Mid Atlantic Chapter of the Medical Library Association Annual Meeting (Charlotte, NC; October 2015), 4 attendees

Conservation Center for Art & Historic Artifacts - The Next Chapter: Rare Books in Modern Times (New York, NY; October 2015), 1 attendee

American Public Health Association Conference (Chicago, IL; November 2015), 1 attendee

Association of Academic Health Sciences Libraries Annual Meeting (College Park, MD; November 2015), 2 attendees

Library of Congress: CONSER Business Meeting (Washington, DC; May 2016), 1 attendee

Medical Library Association 2016 Conference (Toronto, Canada; May 2016), 13 attendees

NN/LM Cooperative Agreement Training and inaugural Steering Committee meeting (Bethesda, MD) – 3 attendees+