Welcome

In 2005 then Director of the National Library of Medicine (NLM) Donald Lindberg, M.D., and Betsy Humphreys, Deputy Director of the NLM, published a perspective article in the New England Journal of Medicine entitled “2015—The Future of Medical Libraries.”* The authors envisioned what medical libraries might look like within ten years given rapid advances in technology, medicine, and the sciences.

Well, here we are! It gives me great pleasure to document another successful year of providing excellent service, an extensive array of resources and tools, and collaboration with our users to achieve their research, patient care, educational, and intellectual goals. In 2015 medicine and science move forward in leaps rather than steps, and discoveries unfold more rapidly. This annual report highlights the various strategies and activities the library has employed to innovate and anticipate our users’ needs:

• More than 200 researchers registered to use both Ingenuity Pathway Analysis and MetaCore, end-user bioinformatics tools piloted by the library to make it easier for researchers to analyze genomics data.
• The library created a Cross-Departmental Public Services Team to deftly respond to patron and library needs.
• The library staff supported more than thirty systematic review teams.
• Clinical information resources UpToDate, ClinicalKey, and VisualDx were jointly licensed with Yale New Haven Health System partner libraries and integrated into Epic for convenient access by clinicians.
• An array of events and exhibits attracted new users to the library and exposed them to our remarkable historical collections.
• Librarians’ involvement in curricula resulted in increased teaching in courses across the campus.
• The library successfully delivered its Information Survival Skills Elective to medical students in November and January.

The Cushing/Whitney Medical Library has a wonderful and dedicated team of librarians and staff. While individual responsibilities and areas of expertise vary widely, all staff sincerely share the utmost commitment to support your research, patient-care, and educational goals in the coming year and beyond.

John Gallagher
Interim Director

*Available online at http://dx.doi.org/10.1056/NEJMpa48190.
The library launched two significant innovations this year: novel bioinformatics services and a restructuring of staff to enhance operations.

**BIOINFORMATICS SUPPORT**

The Cushing/Whitney Medical Library established an end-user bioinformatics program in support of researchers at the Yale School of Medicine (YSM). Rolando García-Milian joined the library in May 2014 and immediately set to work on this exciting new venture. The program’s primary goals are to provide support on three main fronts: resources, training, and consultations.

At its core, the program provides bioinformatics support and equal access to resources and software for all biomedical researchers within the Medical Center. The ability to access and examine molecular data is no longer restricted to bioinformaticians or those with exceptional computer skills. The Medical Library piloted the addition of two of the most powerful and popular tools for the analysis of omics data: Ingenuity Pathway Analysis (IPA) and MetaCore. The library obtained two site licenses on a trial basis, with two concurrent users each. As a result, some units discontinued their individual licenses to these software programs and are using the Medical Library’s site license, resulting in significant savings for individual researchers and labs. More than 170 users have registered to use MetaCore, and more than 220 users have registered to use IPA.

Rolando pioneered training sessions focusing on end-user bioinformatics tools and invited speakers such as those from the Lister Hill National Center for Biomedical Communications and the Jackson Laboratory to present on Semantic MEDLINE and Mouse Genome Informatics, respectively. The Medical Library also hosted commercial bioinformatics software training for BIOBASE, IPA, and MetaCore, and numerous National Center for Biotechnology Information (NCBI) webinars. More than 600 people attended these valuable training sessions.

“Thank you again for your continued work to get the IPA licenses for Yale researchers; this is of tremendous support for the work that we do here at our MS and Proteomics resource for Yale investigators.”

— TuKiet T. Lam, Ph.D., Director, FT-ICR MS Resource, MS & Proteomics Resource, Molecular Biophysics & Biochemistry
CROSS-DEPARTMENTAL PUBLIC SERVICES TEAM

Transformations in technology, medicine, and health care require transformations in the collections, services, and support provided by health sciences libraries. Growth of the Yale New Haven Medical Center combined with changing user needs and expectations motivated the Medical Library to evaluate its ability to keep pace. Dramatic increases in demand for comprehensive searches and systematic reviews, author and department research impact measurement services, bioinformatics services, and general reference support as well as gradual declines in other service areas reinforced the decision to analyze our staffing structure.

After assessing processes, workflows, and individual responsibilities of many of the clerical and technical (C&T) staff, librarians and staff devised a novel team approach that would allow our C&T staff to work across departmental lines to provide a broader variety of both in-depth support and frontline services. The creation of a Cross-Departmental Public Services Team (CDT) enables the library to easily accommodate spikes in volume in any of the services supported by the team and to undertake new projects as they arise. With the support of this team, librarians have been able to expand outreach efforts and provide more robust services. The restructuring has provided opportunities for team members to develop additional skills and support our users in new and meaningful ways.

“The formation of the CDT is advantageous to our users. Working across departments allows team members to deliver library services more effectively and promotes communication throughout the library.”

— Vermetha Polite

Research Services

Librarians have become increasingly involved in research teams requiring sophisticated, comprehensive searches. One example is the systematic review, a protocol-driven, exhaustive literature review, usually designed to answer a specific clinical question. Our librarians have been on more than thirty project teams and have coauthored more than ten systematic review articles in the biomedical literature. Our expert search services include:

- Conducting literature searches across multiple information sources
- Maintaining precise records of search results and following up with alerts and updates
- Providing guidance and support regarding bibliographic management tools, such as EndNote or RefWorks, to manage citations and easily produce bibliographies
- Writing the literature search methodology section for the submitted manuscript

Librarians are contributing to this important body of evidence-based literature.
Clinical Services

Librarians continued to expand services into clinical areas. By being available at the point of need, members of our clinical team, Mark Gentry, Denise Hersey, Janene Batten, and Holly Grossetta Nardini, are able to assist physicians, residents, nurses, PAs, and hospital staff to find the best and most appropriate information for their research and patient-care needs. This work takes place in the intensive care units, radiology reading rooms, operating room suites, and emergency departments, ensuring that clinical staff have the information they need when and where they need it. Librarians round with the Cardiothoracic and Surgical Critical Care and Surgical Acute Care teams in the CTICU and SICU and with the Saint Raphael campus Medicine teaching service. By restructuring library services, our outreach efforts were expanded to Pediatrics, Dermatology, Maxillofacial Surgery, Dentistry, Ophthalmology, and Orthopaedics. Librarians played a valuable role in supporting the Yale-New Haven Hospital Charter Teams by supplying them with the most recent and evidence-based research to support their work in improving patient safety.

Our proactive efforts allow faculty, residents, and students to have full and easy access to library resources in all clinical venues. The number of library resources available within Epic, the health system’s electronic health record, has increased with the system-wide contract for ClinicalKey. There are now health system contracts in place for three resources—ClinicalKey, UpToDate, and VisualDx. Negotiating system-wide contracts for these clinical resources not only enables them to be linked through Epic but also results in savings on contracts for all of the health system hospitals.

The clinical team worked with Yale New Haven Health System IT to ensure that the secure hospital WiFi network provides full access to Yale resources while limiting access to licensed content on the Health System’s open guest WiFi network. The clinical team convinced Yale University ITS project staff to make the Yale-New Haven Hospital (YNHH) network a trusted entity, thereby eliminating the need for Yale affiliates on that network to perform secondary authentication to access library resources.

The library has continued to increase our participation in didactic and hands-on sessions for residency and fellowship programs to contribute to the achievement of ACGME requirements for residency programs. Discussions with Dr. Rosemarie Fisher, Associate Dean for Graduate Medical Education, and others from her staff helped librarians focus on residency programs whose scholarly activity requirements are more stringent. In addition, the clinical support librarians are active members of the Graduate Medical Education Committee, attending the annual retreat and regular monthly meetings in which a Library Update is a standing agenda item.
In November 2014 and January 2015, the library offered medical students a two-week intensive elective focusing on information skills needed to answer immediate clinical and long-term research questions as well as form a strong foundation for lifelong learning. Topics include research/clinical question development, complex search strategy development, tips and techniques for searching both academic and grey literature, critical appraisal and evaluation of information, research impact enhancement, and much more. The ten two-hour sessions are highly interactive, and many colleagues from across the University Library shared their expertise with the students. Student evaluations have been incredibly positive. The elective is in the School of Medicine’s Elective Catalog Listing and is offered four to six times a year.

As the School of Nursing curriculum redesign continued, Janene Batten actively contributed by ensuring an information-seeking component was inserted into YSN courses. Janene was also involved in the Doctor of Nursing Practice program, teaching a major section of the Evidence-Based Practice course and participating in overall programmatic decisions.

Working with Dr. Kirsten Wilkins, Director of Clerkships, Jan Glover and Judy Spak created and presented a proposal to all clerkship directors for the inclusion of a library component in the new YSM curriculum. Based on that presentation, Drs. Dana Dunne and Daniel DiCapua (Medical Approach to the Patient) and Dr. Wilkins (Psychiatry) requested specific sessions for their clerkships. Librarians delivered these sessions in June: an evidence-based medicine session in the Medical Approach clerkship, “Boot Camp/Precede”; and a session on searching the literature to students in the Primary Care and Mental Health clerkship directly related to their write-up assignment during their first day of didactics.

Susan Wheeler and Melissa Grafe offered hands-on sessions to more than 340 undergraduates in the course Media and Medicine in Modern America, taught by John Warner, PH.D, and Gretchen Berland, M.D. They used posters from the Historical Library’s collections to introduce students to research and reading primary sources. Additional sessions were added for more than twenty Internal Medicine and clinical staff at the Yale Primary Care Center. Other classes using Historical Library materials and supported by staff include: Mental Illness in American Society; Photography and Science; Science and Religion; Art of the Printed Word; Early Modern Science and Medicine; Spies, Secrets, and Science; and The Scientific Revolution. Melissa Grafe met with nearly thirty senior thesis writers in the Program in the History of Science and Medicine.

Librarians across the Medical Library constructed research guides to facilitate access to a wide range of library resources and services. These guides pull together thematic and subject-specific content and present it in a packaged format, enhancing patrons’ ability to easily locate information. Guides created this year include Public Health, Medical Education Services, Systematic Reviews, Health Statistics, and Library Resources for YSM Clerkships.
MEDICAL EDUCATION DAY AT YALE SCHOOL OF MEDICINE


NEW MEDICAL LIBRARY TRAINING SESSIONS OFFERED THIS YEAR

Basics of Unix
GIS: a three-part series
BioMart: A Research Data Management Tool for the Biomedical Sciences
Tools for Enrichment Analysis
Introduction to Genome Browsers
MyBibliography and SciENcv
Making Sense of Genomic Variation

Collections

The Medical Library Association (MLA) awarded its Louise Darling Medal for Distinguished Achievement in Collection Development in the Health Sciences for 2015 to the HINARI Access to Research in Health Programme. HINARI partners with publishers around the world to deliver scholarly health information and content (articles, books, and databases) to developing countries that could not otherwise afford these resources. Under the guidance of Nathan Rupp, Head of Collection Development and Management, the Medical Library plays an essential role in supporting this program by entering metadata into the HINARI database for new books and journals each year. HINARI, headquartered at the World Health Organization in Geneva, is one of the Research4Life programs, with AGORA (agriculture), ARDI (applied technology), and OARE (environment). Yale University Library is a founding partner in Research4Life, starting with the launch of HINARI in 2002.

The Louise Darling Medal for Distinguished Achievement in Collection Development in the Health Sciences

Photo: Kelly Perry

13,101 Reference questions answered

22 Faculty members trained to create 40 videos, 20 for the flipped curriculum and 20 used for other educational purposes

80,682 online tutorials downloaded

395 Classes and orientations provided by the library, including expanded evening class times

265,828 Scans, photocopies, and pages printed on our public multifunction machines

1,580 Links to library resources provided for 68 courses

215,121 Visitors to the physical Medical Library

1,172,663 Visitors to the Medical Library’s homepage
NEW DRAWINGS AND POSTERS
Significant works by contemporary artists were acquired for the Collections of Prints and Drawings and Historical Posters. Among them are drawings by artist-activist Sue Coe related to her AIDS Portfolio, 1994, including Doctor Pollard Leads Ethics Rounds and It’s Over; and drawings related to Through Her Own Eyes, 2009, which gives voice to HIV-positive female prison inmates, including Prison Exercise Yard. The library also acquired a collection of posters and digital works on themes of social justice and health care by artist-activist Rachael Romero, a cofounder of the San Francisco Poster Brigade. Originally displayed on city streets from 1975 to 1982, they bear messages such as “Food is not a weapon, it is a human right,” “Stop forced sterilization,” and “Preventive medicine, not costly operations.”

NEW MANUSCRIPTS
The Historical Library, with additional support from the Divinity Library Special Collections, obtained the Morse Family Papers, which includes the papers of medical missionary William Reginald Morse and his wife, Anne (Anna) Crosse Kinney Morse, and their daughter, Marjorie Morse Crunden. This collection provides valuable documentation of the life and work of the Morses, who served under the American Baptist Foreign Mission Society in China from 1909 to 1937. Detailed and substantive correspondence describes the daily life and work of the Morses, their travels, and the turbulent political and social situation in China during this era.
NEW SOFTWARE AND DATABASES
This year the Historical Library, along with several other YUL special collections units, implemented new software (Aeon) to make it easier to request materials online through the library catalog and track use of these collections. Professors can request the same materials for their classes from year to year, easily adding new items using the online request form.

The Medical Library initiated subscriptions to two new bioinformatics resources, IPA and MetaCore, in support of the bioinformatics and genomics work being done at the Medical Center.

In addition, the library helped support the acquisition of the PolicyMap database by Yale University Library; PolicyMap is an online service with data for the United States that offers more than 15,000 indicators related to such topics as demographics and public health.

PRESERVATION
The preservation program cares for the library’s circulating collections and rare historical collections, adding value to the library’s assets and ensuring future use. Working with both Access and Delivery Services and the YUL Preservation Department, Martha Horan established workflows for general collections care, including binding, and archival housing for support and protection of our circulating collection. Martha rehoused hundreds of damaged materials from the historical collections and arranged for extremely fragile and rare items, such as ivory anatomical manikins, to receive custom housing from Conservation & Exhibition Services.

EliScholar
The library is actively advancing EliScholar as a platform for its Open Access electronic thesis and dissertation repository, including management of rights. Other collections uploaded to EliScholar include images from the Department of Surgery, the entire collection of YNHH Annual Reports, and the School of Public Health’s Practice Based Community Health Research Reports.

2,500 Theses were downloaded from EliScholar

560 Items from the circulating collection received preservation treatment

257 Damaged materials from the Medical Historical Library were rehoused

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*Increased expenditures in FY14 due to acquisition of the Saint Raphael Campus.
Responding to requests from our patrons, the library created more individualized study space in quiet areas. The Morse Reading Room especially benefited from this reorganization, with a 7 percent increase in individual study seats. The library replaced wooden chairs with height-adjustable swivel chairs. Blue chairs indicate quiet study space, and green chairs designate spaces in which group work and talking are permitted.

The library participated in School of Medicine recruitment activities by offering “Wow ‘Em” library tours and orientations to entice the best and brightest to come to Yale. Tours were provided for candidates for several residency programs. Chief residents from Psychiatry reported that this is the first year since they began their work to improve the candidate experience that all of their first-choice candidates chose Yale. Candidates specifically mentioned the library tour as one of the reasons that the Yale program stood out.

83%
Increase in use of the 24/7 Computer & Study Space as a result of last year’s renovation

9,474
Hours reserved in library study rooms

32,870
Journal volumes relocated to the Library Shelving Facility, freeing approximately 3,287 linear feet of shelf space

2
therapy dogs regularly visit the library. Our new addition, Finian, began work in April 2015 and visits the library on Sunday evenings.
Special Happenings

HARRY POTTER’S WORLD: RENAISSANCE SCIENCE, MAGIC, AND MEDICINE

Magic permeated the Cushing/Whitney Medical Library as it hosted the National Library of Medicine’s traveling exhibit *Harry Potter’s World: Renaissance Science, Magic, and Medicine* from January 19 to February 28, 2015. The exhibit’s banners explained the real history behind alchemy, herbology, mythological creatures, and other themes of the Harry Potter series. The Historical Library was transformed into Hogwarts’ great hall, and the festivities began with a YUL ball, drawing students, faculty, and children dressed in their finest wizard and witch costumes. The highlight of the event was a visit by Professor Dumbledore, portrayed enthusiastically by the medical school’s Deputy Dean for Education, Richard Belitsky, M.D. Children of all ages asked “Dumbledore” to autograph their copies of the Harry Potter books. Bridging fact and fiction, the library hosted lectures by Yale faculty and staff on topics including “Pharmaceutical Potions” and “Mind-Reading: Animal Minds and Magic.” More than 600 people attended events associated with the exhibit, reminding them that the library is truly a magical place.
Exhibits

SEPTEMBER 22, 2014–JANUARY 16, 2015

**Vesalius at 500**
In celebration of the birth of anatomist Andreas Vesalius in 1514, the library celebrated the important collection of Vesaliana bequeathed by its founder, Harvey Cushing.

**The Body as a Machine**
Fritz Kahn, physician and popular writer, applied visual metaphor to make the structure and function of the human body understandable to the general public. Posters from his multivolume book *Das Leben des Menschen* (The Life of Man) were displayed with other works that illustrated and complemented the metaphor.

**WEBSITE REDESIGN**
The library website was redesigned to create a more user-friendly interface optimized for searching and browsing. The site’s new responsive design adapts to any device and improves readability. Andy Hickner, Web Services Librarian, employed interviews, user testing, and cutting-edge methods to identify what changes would help our users and to ensure that those changes enhanced the overall user experience.

**NATIONAL CONFERENCES**
The Medical Historical Library hosted the Archivists and Librarians in the History of the Health Sciences/Medical Museums Association conference in April, welcoming ninety colleagues from across the nation. This conference was held in conjunction with the American Association for the History of Medicine conference, which Yale hosted for the first time in thirty years. Staff from the Historical Library, including Melissa Grafe, Susan Wheeler, Katie Hart, and Toby Appel, were part of the planning committee and organized events for the conference, including a book exhibit and tours.
The Dangers of Underage Drinking and Other Historical Posters
Among the materials on view were a 1971 series of brightly colored anti-alcohol posters aimed at teenagers, a selection of STD warnings in the form of comic strips, and a 1956 movie poster, "I've Lived Before."

January 22–May 15, 2015
Teratology: The Science and History of Human Monstrosity
This exhibit explored the history of the science of human monstrosity, from early modern accounts of human-animal hybrids and prodigies to present-day explorations of birth defects. The exhibit was featured in fifteen New England news outlets in conjunction with the Yale School of Art’s Side Show exhibit.

Prodigies and Marvels
A selection from the library’s extensive, and seldom seen, collection on this subject introduced a few of these individuals from the sixteenth through the early nineteenth century.

January 29–August 21, 2015
100 Years of Public Health at Yale
The Yale School of Public Health celebrated its centennial in 2015. This exhibit examined the rise of public health at Yale beginning with the appointment of C.E.A. Winslow in 1915 through the work of the school in the present day.

May 21–September 9, 2015
Preserving Form, Preserving Content: Caring for Collections at the Medical Library
This exhibit explored preservation efforts in the Medical Library to care for its important and varied collections.

Baldwin’s Patent Medicines
Nine letterpress posters from the late nineteenth century advertised the Baldwin Patent Medicine Company’s tonics and pills for an astonishing range of complaints.

Department of Surgery Exhibit
Historical Library staff curated and installed an exhibit on medical instruments for the Department of Surgery’s hallway rotating exhibit space and provided images and assistance for the department’s book on its history, *Yale Surgery: Leaders and Legacies*, by John Fenn, M.D., and Walter Longo, M.D.

Online Exhibits
Thanks in part to the efforts of two of our librarians, Melissa Grafe and Andy Hickner, the Omeka content management system was adopted as the official platform for online exhibits at YUL. The library created online versions of current exhibits using Omeka and then began transferring legacy exhibits onto the platform. Currently, online exhibits include *Selling Smoke: Tobacco Advertising and Anti-Smoking Campaigns*; *Founders and Early Benefactors of the Medical Historical Library*; and *Arnold Carl Klebs*, 1870–1943.
Major Gifts

Stanley Simbonis ’53 YC, ’57 M.D. is one of the Cushing/Whitney Medical Library’s greatest friends. According to Dr. Simbonis, “The library is the heart and soul of the university. It’s the crown jewel. How can you do without it? It’s been a storehouse of knowledge throughout the ages.” The Stanley Simbonis, M.D. Fellowship was established this year for the Cushing/Whitney Medical Library thanks to a generous gift from Dr. Simbonis. The fellowship provides the Medical Library with a dedicated source of income to host a visiting fellow from one of several national library fellow programs. Fellows help to influence and establish new library services and programs and allow the Medical Library to better serve Yale and the Medical Center’s faculty, staff, and students. Throughout his lifetime, Dr. Simbonis has created six separate Charitable Gift Annuities totaling more than $2 million, which when realized will establish the Stanley Simbonis, M.D. Endowed Fund at the Cushing/Whitney Medical Library.

William Helfand donated an additional gift of material to the Historical Library, consisting of more than 600 books, children’s books, almanacs, comic books, and other ephemera related to medicine and medical advertising.

An additional gift from Dr. Arthur Ebbert’s estate was received, bringing his total gift to nearly $1.5 million.

Photo: Terry Dagradi

Image from Nada Iveljić, We go to the doctor. Zagreb, 1974.
BECOME A FRIEND OF THE MEDICAL LIBRARY

Through the generosity and support of our Associates, the Medical Library provides essential support for biomedical education, research, and patient care. We encourage you to consider supporting this invaluable and comprehensive resource by becoming a member of the Medical Library Associates.

To make a gift or to find out more about becoming a Medical Library Associate, please visit http://library.medicine.yale.edu/associates or contact Katie Hart at katherine.hart@yale.edu or 203-785-5352. All gifts are tax-deductible.
Staff Highlights

LONGTIME SERVICE AWARDS

35 years
Lynn Sette

15 years
John Gallagher
Mark Gentry

10 years
Janene Batten
Dogota Peglow
Lei Wang

PUBLICATIONS


PRESENTATIONS


IN THE CURRICULUM


Batten J. Faculty. “YNHH evidence-based practice foundations for nurses.” Multiple times throughout the year. Yale-New Haven Hospital.

Gentry M. Invited speaker. “Principles of evidence-based medicine and accessing key EBM resources.: JAR Retreat for PGY1s, Internal Medicine, Traditional. May 2015. Yale-New Haven Hospital.


Spak J. Guest lecturer. “Effectively searching the medical education literature.” Medical Education Fellowship. September 2014. Teaching and Learning Center, Yale School of Medicine.

After a long illness, Lynn Sette passed away peacefully in April. Lynn was beloved by so many here at the Cushing/Whitney Medical Library, as a truly kind and considerate friend and colleague. Lynn first joined the Medical Library as an acquisitions assistant in 1979. Upon earning a Master’s of Library Science from Southern Connecticut State University in 1983, she became a reference librarian, a position she truly loved. She was passionate about her work, serving as a library liaison to the Departments of Pediatrics and Dermatology and as a personal librarian for medical students. Among her proudest accomplishments was her collaboration with staff at the New Haven Free Public Library to create a consumer health information collection to serve the health information needs of New Haven residents. For many years Lynn volunteered weekly at Yale-New Haven Hospital’s Newborn Special Care Unit, work that was extremely close to her heart. Our colleague will be sorely missed.
Der Mensch als Industriepalast (Man as Industrial Palace), 1926, featured in our exhibit The Body as a Machine, is from one of the volumes of Das Leben des Menschen (The Life of Man) by Fritz Kahn, a German gynecologist and popular science writer. Kahn’s books were famous for their detailed, innovative, and aesthetically pleasing illustrations. He is widely recognized as a pioneer of information graphics, using images and visual metaphors to convey information and ideas.