

Harvey Cushing / John Hay Whitney
Medical Library, Yale University

Annual Report, 2016–2017



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Cover: Thousands of people visit the Cushing Center each year. The center features the Harvey Cushing Brain Tumor Registry, a collection of more than 400 brains and specimens from pioneering neurosurgeon and library namesake Harvey Cushing, M.D. For more, see page 8
Photo: Terry Dagradi

From the Director

This photograph of the magnificent Historical Library is the inspiration for the theme of this year's Cushing/Whitney Medical Library (CWML) annual report. Sunlight falls upon the Rev. George Stewart's poetic words carved into the fireplace's bluestone mantelpiece: *Here silent speak the great of other years. The story of their steep ascent from the unknown to the known.*

Light has long been used as a compelling metaphor for truth, understanding, and discovery. Today, scientific breakthroughs occur at an unprecedented pace, enlightening the mysteries and unanswered questions of yesteryear. Yet our scientific process has room for improvement. Within academia, we work to address the challenges of irreproducible research and the flaws of the peer review process. Externally, there is — among some groups — a casual cynicism toward science and a disregard for widely accepted scientific findings. These circumstances call for broad dissemination of validated, accurate, and authoritative evidence and information.

Providing and guiding users to authoritative and pertinent information is one of the library's core functions. Stewart's quote refers to books by "the great of other years," and today's library builds on that tradition and also provides access to an immensely rich and robust collection of digital tools and resources. Using these resources, library staff worked with dozens of research teams conducting systematic reviews and meta-analyses, performing comprehensive searches and delivering thousands of articles to support rigorous reviews of the literature. Librarians also augmented users' own search skills by teaching well-attended classes and workshops. The breadth and depth of not only the Medical Library's collections and expertise, but also those of the entire Yale University Library, are available to users engaged in translational and interdisciplinary research.

With commitment and passion, we proudly serve our community to provide meaningful and valuable support. Our talented and dedicated staff help our community shed light on truth, understanding, and discovery.

John Gallagher



Clinical Services

Clinical librarians meet with health-care staff in the operating room suites, ICUs, radiology reading rooms, their offices, and throughout the clinical environment to assist with research and information needs. They also teach medical and health-care program trainees in every specialty area how to use library resources to find evidence-based information. These are just two of the many ways librarians help inform clinical decisions and promote practice change.

Clinical librarians are integrated into the Yale New Haven Hospital (YNHH) quality improvement efforts. Interdisciplinary clinical redesign and quality and safety teams fast-track quality-of-care improvements for patients. Librarians contribute to this effort by finding and selecting literature about specific initiatives to help develop evidence-based procedures and protocols.

Evidence-based clinical information resources provided by the library are essential to the delivery of excellent patient care. Point-of-care tools are incorporated into Epic, the electronic medical record system of the University and Yale New Haven Health System (YNHHS). Clinical mobile apps, such as UpToDate and DynaMed Plus, are accessible from HIPAA-compliant Mobile Heartbeat devices right at the bedside. Clinical librarians worked with YNHH to create a library website for the new YNHH Physician Portal, providing resources curated for physicians to find and discover relevant and evidence-based clinical information.

CWML clinical librarians also deliver library classes to Yale clinicians beyond New Haven. For example, Mark Gentry and Melissa Funaro presented a Pediatric Grand Rounds lecture on evidence-based medicine resources at the Bridgeport Hospital campus. Denise Hersey and Melissa Funaro presented a two-hour instruction session at the Veterans Affairs (VA) Connecticut Healthcare System's West Haven campus on searching the literature and managing citations using EndNote.

Librarians also teach using creative new methods. Nursing Librarian Janene Batten collaborated with members of the YNHH Nursing Research Committee to develop two online

modules to complement existing research skills classes. The modules teach nurse residents how to build sound research questions and search the literature for evidence-based information. This continued library support for the hospital was integral to YNHH's Magnet status, awarded by the American Nurses Credentialing Center.



The clinical team welcomed three new librarians, Melissa Funaro, Alexandria Brackett, and Alyssa Grimshaw
Photo: Terry Dagradi

“The library staff assist in finding current, relevant literature that helps guide the team toward evidence-based best practices. The team can then adopt or adapt some of these practices. For example, the Progressive Care Unit Clinical Redesign team adapted an admission criteria algorithm, which was found while reviewing the literature, to create an admission criteria decision tree.

The library staff are eager to help. They are a great resource and know how to search the various databases for valuable information. They put forth tremendous effort in understanding the specific needs and goals, as well as how the information can guide decisions once obtained and reviewed.”

Lynda Cook, M.S.N., R.N.-B.C., Consultant,
Internal Consulting Group, YNHH

Research Guides

Library staff curate online guides that help navigate myriad services and resources (e.g., databases, websites, and e-books) pertaining to a medical topic, department, or time-saving service. These guides are part of CWML's effort to directly complement the University's missions. New guides are added regularly. Some highlights from last year include:

[IACUC: Searching for Alternatives to Painful Procedures Used on Research Animals](#)

This guide explains how to search the scientific literature on animal research, with advice about database selection, search strategies, and search documentation. Medical librarians also conduct and document Institutional Animal Care and Use Committee (IACUC) compliance searches for researchers and offer IACUC literature-searching workshops.

[Biomedical Literature: Full-Text Access without a Yale Affiliation: Finding Free Full Text Online](#)

Without university affiliation, accurate information becomes harder to find. Packed with tips on accessing high-quality biomedical literature online without a current university affiliation, this guide prepares graduates and independent scholars for their next academic research role.

[LGBTQI+ Health Resources](#)

In collaboration with faculty, students, and staff across the University, CWML developed a research guide that brought together resources and tools available at Yale and elsewhere devoted to LGBTQI+ health, including features such as statistics, practice guidelines and reports, health organizations, and an extensive section on conducting research related to this interdisciplinary topic.

[Course Reserves at the Cushing/Whitney Medical Library](#)

To ensure a smooth transition for the Schools of Nursing and Public Health to Canvas, Yale's new learning management system, CWML created a guide to help faculty find, obtain, and organize course reading materials, place them on reserve, and ensure copyright compliance.

Education Program



CWML not only provides access to accurate information, but also offers an education program that encourages a culture of critically appraising information and using authoritative resources to enable advances in biomedical research and patient care.

Librarians frequently tailor classes to the needs of specific user groups. Several notable new classes were offered that directly responded to users' educational needs and preferred learning styles. During National Public Health Week, Kate Nyhan adapted her usual classes to focus on resources and services of special interest to public health. Classes were also customized for summer interns and research associates, the National Clinician Scholars Program, Research in Progress seminars, and numerous clinical departments. CWML also provided classes customized for Yale's community outreach programs, such as Cancer Research Opportunities for Youth (CROY) and New Haven Public School students.

Zongzhi Liu, Ph.D., taught
"TCGA RNA-Seq Data
Download and Analysis,
All on Your Laptop"
Photo: Rolando García-Milian

New classes offered by CWML

Literature Review in 60 Minutes

Online Mapping Platform

Practical Research Data Management

Census.gov: A Guided Tour

Global Health Information Resources

Finding Health Statistics

Comprehensive Literature Searching for
Alternatives to Meet IACUC Requirements

Searching with Google and Google Scholar
for the Health Sciences

Creating Surveys with Qualtrics



Janene Batten teaching at the
Yale School of Nursing
Photo: Amanda Patrick

Melissa Grafe teaches Yale
undergraduates using CWML
special collections
Photo: Terry Dagradi

Biomedical Sciences Research Support Librarian Rolando García-Milian developed a training program capitalizing on peer instruction to help users tackle the complexity of bioinformatics resources, tools, and methodologies. Peer-teachers are better able to tailor instruction material to the attendees' needs because they have likely faced similar challenges. Four graduate students and one faculty member from the Biological and Biomedical Sciences Program expanded class offerings by providing five peer-instruction sessions on Next-Generation Sequencing (NGS) topics, including how to download and analyze public data from The Cancer Genome Atlas (TCGA).

TEACHING IN THE CURRICULUM

Librarians teach in the formal curricula at the Schools of Medicine, Nursing, and Public Health, in the Physician Associate Program, and in Graduate Medical Education and Continuing Nursing Education didactic settings across the YNHHS. These instruction sessions cover topics such as evidence-based approach to searching the literature in Psychiatry, Surgery, and Internal Medicine; conducting systematic reviews and other comprehensive searches of the literature across multiple disciplines; and managing citations using citation management software. These classes are designed to expose students to the wealth of authoritative resources the library provides. Further examples of such sessions include managing research data, searching the gray literature, and framing research and clinical questions to be able to search the biomedical literature efficiently and effectively. These classes are customized, often in collaboration with the instructor, to ensure that students are taught skills and knowledge most relevant to their course work, patient care activities, and research projects.

TEACHING WITH SPECIAL COLLECTIONS

There is increasing demand for primary sources and archival materials in the classroom to complement lecture courses and provide students with a hands-on and memorable experience. Introducing CWML special collections in the classroom makes medical history come alive. The Historical Library staff participated in more than 40 graduate and undergraduate classes. For example, John R. Bumstead Librarian for Medical History Melissa Grafe and Curator for Prints and Drawings Susan Wheeler taught 12 sessions for approximately 200 students over the course of two and a half days for the course Media and Medicine. Using a variety of materials from the Historical Library and Yale University Library, Melissa, Susan, Henry Cowles, Ph.D., and seven teaching fellows organized and taught a two-hour special collections session for the class History of Addiction to 106 students.

In addition, Susan led sessions using historical materials for the Yale Interdisciplinary Center for Bioethics on the topics of war and patients. To facilitate discussion about the ethics of the involvement and development of medicine during wartime, the war session compared depictions of wounded soldiers in art and in period medical textbooks showing before and after photographs of surgical reconstruction. Lori Bruce, Director of the Sherwin B. Nuland Summer Institute in Bioethics, wrote: "The summer bioethics scholars keep raving about the sessions with the Historical Library materials. These sessions truly enriched their learning and their time at Yale. I am grateful to you and your team for so thoughtfully selecting items from your collection to build upon our curriculum and expand their perspectives."

10,600

reference questions,
referrals, and research
consultations

38

faculty members trained
to create videos for the
flipped curriculum

97,603

views of online tutorials

659

classes and orientations
provided by the library

10,699

attendees at library
classes, tours, and
orientations

2,299

links to library resources
provided for 181 courses

4,981

articles and books lent
to other libraries

5,019

articles sent to our
patrons through our
Scan and Deliver service

14,862

articles and books
provided by our
Document Delivery team

Illuminating Your Data

Whether you are a clinician or basic science researcher working with high-throughput data (e.g., genomics, transcriptomics, proteomics, metabolomics), the CWML provides access to comprehensive biomedical knowledge bases, such as Ingenuity Pathway Analysis and MetaCore. These resources help annotate and find the biological or clinical significance of data, and also narrow or generate new hypotheses using publicly available datasets.

QUALITATIVE STUDY OF RESEARCHER NEEDS

Librarians conducted a qualitative research project to identify challenges researchers face in analyzing high-throughput omics data. The study participants included biomedical researchers, graduate students, postdocs, and faculty affiliated with the Yale School of Medicine (YSM) who were involved in omics-related research. Analysis revealed that Yale researchers need more advanced training to properly analyze the data they are producing, but lack the time to pursue it. The training needs are especially urgent for those who do not have personnel to assist with data analysis, specifically bioinformaticians. The final report will bring to light the services and resources necessary to meet researchers' data analysis needs and consider how the library can help.

HIGH-PERFORMANCE COMPUTING

The CWML is piloting a powerful workstation with a suite of licensed and open source tools, such as BRB-Array Tools, Cytoscape, and Qlucore, to process, manage, analyze, and visualize data in a variety of formats. Available to anyone with a Yale netID, this workstation can be used for high-throughput data analysis, such as NGS data analysis.

CWML offers the workshop **Practical Research Data Management**, which discusses the research data life cycle, moments of “data management risk,” and practical approaches to data management. Everyone, from early career to established researchers, leaves this workshop with a checklist of practical next steps in data management that can save them both time and trouble.



Rolando García-Milian consulting
with a researcher about data analysis
Photo: Terry Dagradi

Special Report: Artist/Activist Sue Coe's Work Featured in the CWML

CWML introduced our 2015 acquisition of seven large drawings related to artist/activist Sue Coe's *AIDS Suite, 1994* with well-attended events and a popular exhibit, The "*AIDS Suite*": *HIV-Positive Women in Prison and Other Works by Artist/Activist Sue Coe*. The drawings were exhibited with selected prints and drawings by Coe acquired in the past decade by CWML.

Coe was the guest of honor during opening events, including a Meet the Artist exhibit tour in which she discussed each drawing, a historic moment captured on video by Lead Digitization Technical Assistant Kelly Perry. The Barwick Lecture, "A Conversation with Sue Coe and Eric Avery, M.D.," sponsored by the Program for Humanities in Medicine, followed in the Historical Library. The conversation reunited collaborators Coe and Avery to share publicly for the first time their experiences with the AIDS project at the University of Texas Medical Branch (UTMB) at Galveston.

In 1994, at the invitation of Avery and in collaboration with UTMB's Institute for the Medical Humanities, Coe met and sketched dying patients in the AIDS ward. This experience captured an epidemic that, at the time, did not have a cure. Coe's work documented not only the suffering of the patients, but also the empathy and professionalism



Pages from Coe's sketchbook "Through Their Own Eyes"
Photo: Terry Dagradi



Sue Coe described and discussed each exhibited drawing, providing context and sharing personal experiences with many of these patients

Photos: Kelly Perry

of the physicians and staff who cared for them. At a time of fear and misinformation, the project humanized patients and their families.

The artist expressed appreciation by making a gift of her sketchbook "Through Their Own Eyes" from the *Women in Prison* project, 2005 to the Historical Library's collection of prints and drawings. During this second collaboration with Avery, Coe drew portraits from life of Texas women prisoners during interviews with Avery about their increased risk for HIV infection. The sketchbook presents ten full-page portraits, as well as biographical notes and sketches recorded on site.

Through endowments, CWML also acquired Coe's collection of 81 working drawings from the *AIDS project, 1994*, with additional notes. The collection includes sketches to finished drawings for the *AIDS Suite* as well as for the large drawings acquired in 2015. Both acquisitions are evidence of the artist's intimate on-site observations that became her compelling finished works. Developed over the past few years, CWML's substantial collection of Coe's works pertaining to patients and medicine is a rich resource for the study of these subjects and the artist herself.

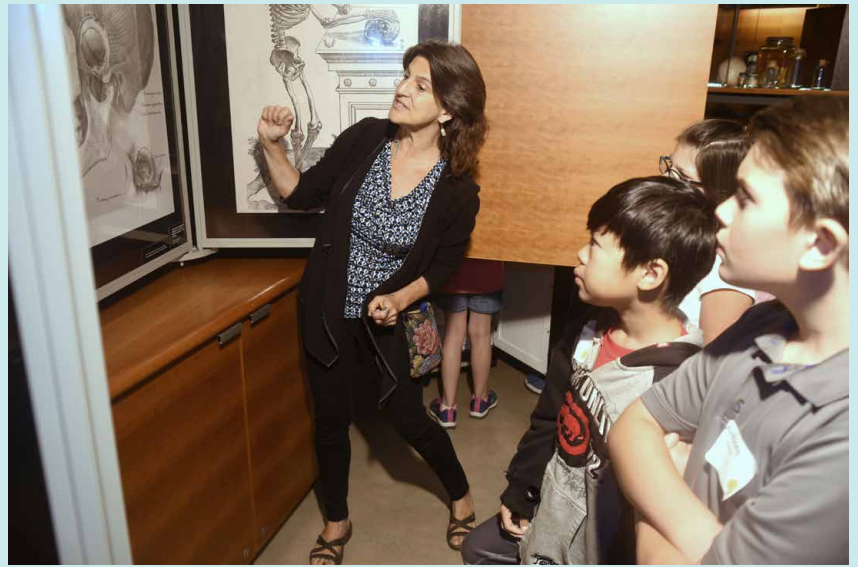
The Cushing Center

Thousands of students from regional middle schools, high schools, and colleges visit the Cushing Center at the CWML each year. Tours and activities are developed by Cushing Center Coordinator Terry Dagradi and Melissa Grafe, who continue to develop new ways to engage with visitors. The center features the Harvey Cushing Brain Tumor Registry, a collection of more than 400 brains and specimens from pioneering neurosurgeon and library namesake Harvey Cushing, M.D. For New Haven seventh-grade students in particular, a visit to the center complements their study of the infamous case of Phineas Gage, a nineteenth-century railroad worker who survived a horrific injury to the left frontal lobe of his brain. Terry and Melissa worked with the Center for Engineering Innovation & Design to create a 3-D replica of Gage's skull. In addition, they collaborated with Yale College students in the course Introduction to Engineering, Innovation, and Design to design *Harv-E*, an interactive brain model that helps visitors explore the highlights of the center. Such creative collaborations are an excellent way to connect Yale to the community, making visits to the center all the more enriching for students and visitors of all ages.

CATALOGING CUSHING'S PATIENTS

Because of the renewed interest in Harvey Cushing's research and work, staff at the CWML are working to document and digitize his collection of approximately 15,000 glass-plate photographic negatives. The negatives represent a major part of Cushing's research, and information from them is the linchpin connecting the patients and tumors depicted in the photographs to the brains in Cushing's collection. Once digitized, the negatives will be made available for research through the Cushing Center database.

CWML received a National Network of Libraries of Medicine – New England Region Knowledge & Data Management grant to catalog unprocessed glass-plate negatives in the Harvey Cushing Brain Tumor Registry. Over three months, a team of graduate and undergraduate students carefully added information on more than 3,000 glass-plate negatives to the Cushing Center database, bringing the total number cataloged to 7,832.



Terry Dagradi leading a tour of the Cushing Center

Photo: John Curtis

Due to popular demand, Cushing Center
tours are now offered on Saturdays



Digitized image from a
glass-plate negative in the
Harvey Cushing Brain
Tumor Registry

Photo: Terry Dagradi

Collections

SELECTED HISTORICAL LIBRARY ACQUISITION

The Historical Library acquired a rare deluxe 1891 German edition of “White’s Physiological Manikin” (1886), entitled *Anatomisch-physiologischer Atlas des Menschen*. This nearly life-size paper manikin contains multiple multilayered flaps, giving an internal view of the human body. Intended as a teaching aid for medical students, this type of anatomical manikin was also used in popular lectures, classes on hygiene, doctors’ offices, and traveling medicine shows. Our deluxe manikin also includes male and female reproductive parts as well as a baby in gestation. It was featured in a recent *Yale Medicine* article, “Like dissection, but without the mess” (see back cover).

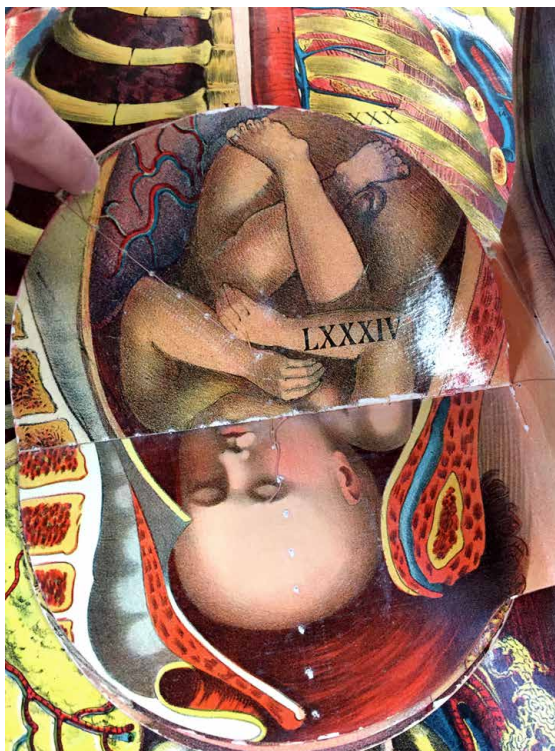
FEATURED DATABASES AND TOOLS

The CWML constantly introduces new licensed resources, which we fully support by providing instruction, consultations, and collaborations. Here are three from the last year.

[Qlucore Omics Explorer](#) facilitates a dynamic, visualization-guided analysis of omics data, applicable to various phases of the discovery cycle. What differentiates Qlucore is the combination of speed, advanced analytics, seamless workflow, and simplicity that empowers researchers to participate in their data analysis. This tool exponentially shortens time to results and improves accuracy of the findings.

[Pharmaprojects](#) lets researchers track the progress of drugs from bench to patient by exploring drug development by global and country development status and therapeutic class status. This database tracks drug progress from early preclinical development to market launch or discontinuation.

[Disability in the Modern World](#) builds on a growing interest in the field of disability studies. With periodicals, videos, archives, brochures, and other materials, this database is one of the first to capture resources on the topic of disability.



Anatomisch-physiologischer Atlas des Menschen
Photos: Terry Dagradi

Fellowship Highlights



Erin Travers
Photo: Florence Gillich

The Historical Library awarded two Ferenc Gyorgyey Research Travel fellowships for 2016–2017. Erin Travers, a doctoral candidate in history of art and architecture at the University of California, Santa Barbara, explored a book of drawings after Jacob van der Gracht's *The Anatomy of the Outer Parts of the Human Body* (1634) for watermarks hidden within the paper, and other physical clues, to date the manuscript to the early part of the eighteenth century. Travers wrote, "I am grateful to the CWML for its support of my project and greatly appreciate the opportunity to investigate an inquiry first raised by Cushing nearly one hundred years ago."

Whitney Wood, a postdoctoral research fellow in the Department of History, Classics, and Archaeology at the University of London, delved into the papers and correspondence of Yale Professor of Obstetrics Herbert Thoms as part of her larger project, "A New Way to Birth? The Natural Birth Movement in Canada, 1930–1980."

Library as Place

PLANNING FOR RENOVATIONS

Beginning next year, the CWML will undergo some exciting and significant renovations. The changes are driven by the need for additional classroom space to support the YSM curriculum. Since August 2015, YSM has used the flipped classroom curricular model for many of its courses. This model encourages students to learn new concepts prior to meeting. Class time is then dedicated to in-depth discussion and application of the knowledge to specific cases. This education model requires fluid and flexible spaces.

CWML's skylit Information Room will be repurposed to accommodate a 126-seat team-based learning classroom. Other improvements will include eight classrooms, several small-group study rooms, and an Information Commons. When finished, these classrooms will be used for most YSM first- and second-year classes and will provide much-needed group study spaces.

YSN CELEBRATE THE AUTHOR

Nursing Librarian Janene Batten and Dean of the Yale School of Nursing Ann Kurth, Ph.D., M.P.H., C.N.M., FAAN, collaborated to launch the inaugural YSN Celebrate the Author event, which recognized recently published YSN authors. Showcasing books published in the past five years, as well as a selection of older influential titles, this event highlighted YSN faculty and alumnae/i's powerful impact on nursing since the school's inception in 1923. A website featuring the recently published books has since been created.



215,615
visitors to the
physical CWML

2,957
visitors attended
232
tours of the
Cushing Center
provided by the
library

935,391
visitors to the
CWML website

7,622
hours reserved in
CWML study rooms

222,078
scans, photocopies,
and pages printed
on our public
multifunction
machines

YSN faculty authors Alison Moriarty Daley, Ph.D., A.P.R.N., P.P.C.N.P.-B.C.; Mikki Meadows-Oliver, Ph.D., R.N., FAAN; and Nancy Banasiak, M.S.N., A.P.R.N., P.P.C.N.P.-B.C.
Photo: Neal Greene

Have you visited CWML lately?

You may notice a new look for the entrance and a refurbished foyer that includes soft seating and tables.



Photo: Terry Dagradi

BUILDING COMMUNITY

To foster a sense of community, CWML hosted some fun events for students. Handsome Dan XVIII (aka Walter) and handler Kevin Discepolo visited CWML this spring; more than 150 people came to meet Yale's mascot. Throughout the year, students enjoyed finding a small paper version of CWML's namesake, Harvey Cushing, modeled on Flat Stanley. Library staff hid "Flat Harvey" throughout the library, and finders received a small gift for spotting him. CWML also collaborated with Student Peer Advocates to host a study break each semester.

ASSOCIATES LECTURE

In March, friends of the library gathered for a lecture sponsored by the Associates of the Cushing/Whitney Medical Library. Dean of the Yale School of Public Health Sten Vermund, M.D., Ph.D., presented a lecture on the history of the HIV epidemic and highlighted the specific urgent challenges and threats to effective response to one of the world's worst pandemics. Dr. Vermund offered an engaging and informative lecture that underscored policy, prevention, and health-care challenges, interspersed with personal experiences studying this disease all over the world.



Yale's mascot,
Handsome Dan XVIII
Photo: Terry Dagradi

Study break at the CWML
Photo: Alla Mashkautsan

Dean Vermund presenting
the Associates Lecture
Photo: Terry Dagradi



Exhibits

SEPTEMBER 15, 2016–JANUARY 10, 2017

“The AIDS Suite”: HIV-Positive Women in Prison and Other Works by Artist/Activist Sue Coe

JANUARY 25–APRIL 25, 2017

Refugees, Immigrants, and Library Books for Soldiers: A Selection of World War I Posters from the Collections

JANUARY 25–MAY 12, 2017

Yale Medicine Goes to War, 1917

APRIL 28–SEPTEMBER 5, 2017

Moral Judgment in Evaluating Disease: Some Pictures for Discussion

MAY 25–NOVEMBER 3, 2017

New Lives for Old Specimens

HIGHLIGHTS

Yale Medicine Goes to War, 1917

When America entered the First World War in April 1917, Yale University leapt into action. Curated by Yale doctoral student Maria Rios, the exhibit explored the many ways that the medical school faculty, researchers, and students contributed to the war effort at home and abroad. The war diaries of Harvey Cushing, which depict the trials and trauma of war, were also on view.

Programming for this exhibit included a musical revue, featuring WWI-era medically themed music from a collection gifted to the Historical Library by William Helfand. A large crowd enjoyed the live music, sung by volunteers from around the University and accompanied by pianist Jay Gitlin. CWML also cosponsored a panel discussion with the Beaumont Medical Club on the topic of “War and Medicine.” Moderated by Thomas Duffy, M.D., panelists Kristaps Keggi, M.D., Shepard B. Stone, M.P.S., and Melissa Thomas, YSM ’19 discussed their experiences as medical personnel in recent wars, and shed light on how medicine is affected by war. Dennis Spencer, M.D., described Harvey Cushing’s experiences in the First World War.

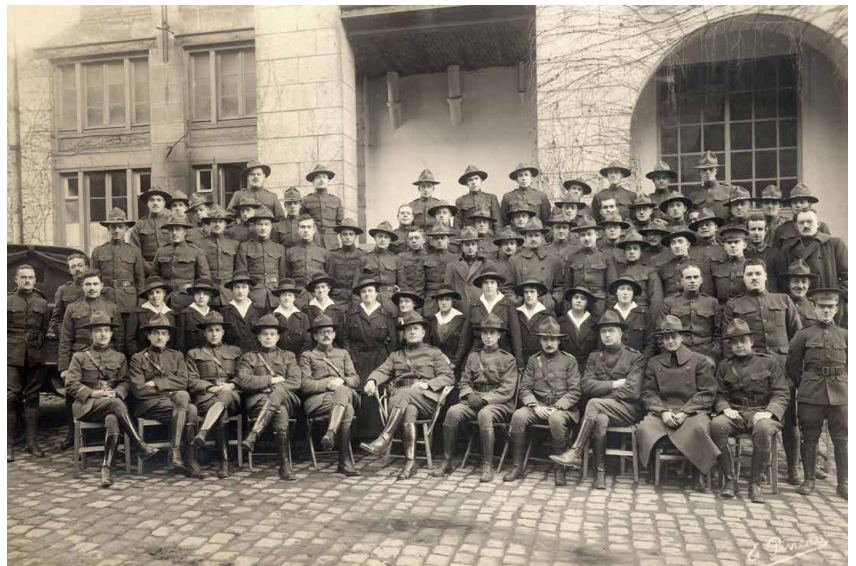


Music Librarian Suzanne Lovejoy sings about going off to war in the musical revue



Dr. Kristaps Keggi speaking during the “War and Medicine” panel discussion

Photos: Terry Dagradi



Mobile Hospital No. 39 (“The Yale Unit”) in France, 1918. Joseph Marshall Flint papers, MS 1295, Manuscripts and Archives, Yale University Library



New Lives for Old Specimens

The exhibit featured current medical research using historical specimens from Yale's collections. It was curated by Gerald Joseph Conlogue, M.H.S., Professor Emeritus, Diagnostic Imaging; Alan G. Lurie, D.D.S., Ph.D., Professor and Chair, Division of Oral and Maxillofacial Diagnostic Sciences, University of Connecticut; Charles Cecil Duncan, M.D., Professor, Neurosurgery and Pediatrics; Shanta Elizabeth Kapadia, M.B.B.S., Lecturer in Surgery, Gross Anatomy; William B. Stewart, Ph.D., Associate Professor of Surgery, Gross Anatomy, Section Chief; and Cynthia Tsay, YSM '18. From tumors in the Cushing Brain Tumor Registry and fetal skulls in the Kier/Conlogue collection, to 1970s dissection videos featuring the late Yale Professor of Anatomy Edmund S. Crelin, Jr., old specimens are finding new ways into current research and medical education. A panel during YSM's Alumni Weekend brought many of the curators together in a lively discussion on the uses of older specimen collections in teaching and research.

Dr. Edmund S. Crelin teaching an anatomy class at Yale in the 1970s

Alumni Weekend featured a panel discussion with the *New Lives for Old Specimens* curators

Photo: Robert Lisak

Student artwork commemorating donors who left their remains to the School of Medicine through Yale's Willed Body Donation Program

Photo: Terry Dagradi

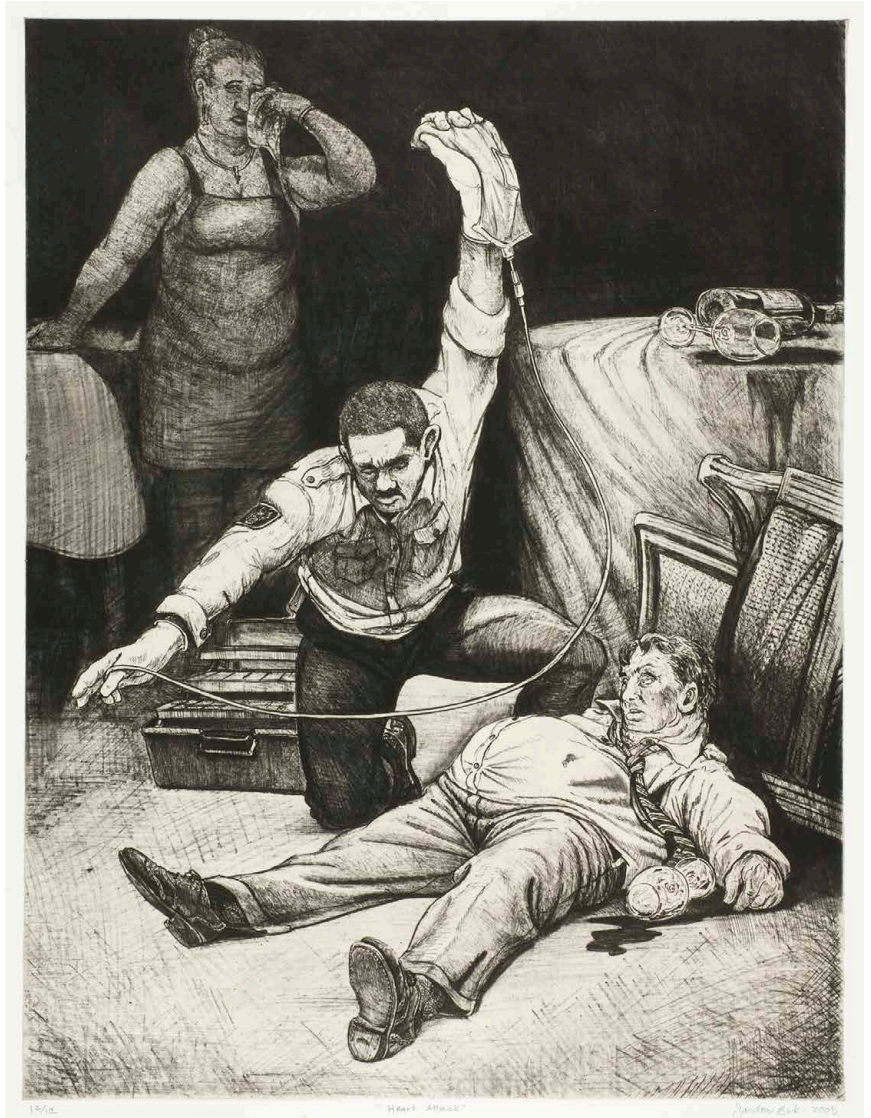


Curators David Dupee and Melinda Wang discuss the exhibit with Dr. Nancy Angoff, Associate Dean for Student Affairs, at an opening reception sponsored by the Program for Humanities in Medicine

Photo: Terry Dagradi

Moral Judgment in Evaluating Disease: Some Pictures for Discussion

This exhibit, conceived and curated by David Dupee, YSM '20, and Melinda Wang, YSM '20, presented a selection of prints from the eighteenth, nineteenth, and twentieth centuries that encourage viewers to confront the cultural constructs underlying moral evaluation and to see the depictions of mental health, illness, and body image not as echoes of the past, but as preludes to forces that remain substantial in the modern era. We all practice moral judgment long before developing an aptitude for clinical evaluation. Ideas of how a “good” person should look and act reside within us and subtly impact the way we perceive those around us. This practice is so deeply ingrained that it can carry over into the clinic, leading well-meaning practitioners to perceive patients both clinically and morally.



Sandow Birk, “Heart Attack,” 2005, from *Ten Leading Causes of Death in America*

Photo: Terry Dagradi

Major Gifts

Artist/activist Sue Coe made a gift of her sketch-book “Through Their Own Eyes” from the *Women in Prison project, 2005* to the Historical Library’s collection of prints and drawings. To learn more, see p. 7.

The Historical Library received 162 additional prints and other materials from the collection of Bert Hansen, Ph.D. The Hansen gift now contains more than 700 prints, including chromolithographs and wood engravings from nineteenth-century magazines like *Harper’s Weekly*, *Frank Leslie’s*, *Puck*, and *Judge*. Two other large gifts include the typed journals of Daniel Carleton Gajdusek, a Nobel Prize winner; and domestic medicine manuals, patent medicine bottles, and medical instruments from Dr. Sidney Schnoll.

The Historical Library also grew its archives program with the addition of papers from Martha Roper, M.D., a global expert in maternal and neonatal tetanus and epidemiologist; the collection of Myron Genel, M.D., Professor Emeritus of Pediatrics (Endocrinology), whose career has touched on such topics as stem cell research, pediatric research, and organ transplantation; and

a collection of papers, books, and objects from Joan Jackson, Ph.D., who conducted pioneering research on how alcoholism affects families.



Undergraduate students study materials from the Hansen gift
Photo: Terry Dagradi

Donors

GIFTS OF \$250 OR MORE

Michael Adelberg	Benjamin Harris	Hugh Moffet
Daria Andriole	William Helfand	Andrea Polesky
Anonymous	Kenneth Johnson	Seth Powsner
Susan Baserga	Robert Johnson	Robert Rosa
Robert Bazemore	Michael Kashgarian	Seth Rosenthal
Jean Bolognia	Jonathan Katz	Frederick Sherman
Irwin Braverman	Kristaps Keggi	Gilbert Solitare
Michael Carey	Donald Kent	Harold and Mimi
James Chang	Pramita Kuruvilla	Steinberg
The Charles A. Coffin	Richard Leff	Charitable Trust
Memorial Fund	Paul Lucky	Shepard Stone
Jennifer Eras	Linda Maerz	Lee Strohl
John Fenn	Robert Marcus	Albert Ungricht
Lucia P. Fulton Foundation	Richard Miller	
Ira Gewolb	Robert Modlin	

BECOME A FRIEND OF THE CUSHING/ WHITNEY MEDICAL LIBRARY

Through the generosity and support of our Associates, the CWML 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 Sharon McManus in the Office of Development. All gifts are tax-deductible.

Staff Highlights

LONGTIME SERVICE AWARDS

40 years

Arthur Belanger

Thomas Falco

35 years

Velma Williams

10 years

Pamela Gibson

Robert Hughes

5 years

Melissa Grafe

Nathan Rupp

CONTINUING EDUCATION FOR CWML STAFF

Providing relevant services, collections, and resources requires CWML staff to keep current with the profession and broader trends in health care. Our early career librarians formed a Search Club with Senior Research and Education Librarian Jan Glover as an adviser. The club fosters continued learning and offers opportunities to discuss new searches with colleagues. Clinical Librarian Alexandria Brackett said, “It is so helpful to gain different perspectives on how to search, as well as participate in discussion about different experiences using specific databases.” With fresh perspective, the club has also embarked on developing and redesigning CWML resources and services.

While not everyone has the opportunity to be a manager, everyone can be a leader. Head of Access and Delivery Services Melanie Norton convened a monthly Lunch and Learn discussion group that welcomed all library staff to discuss articles, chapters, and videos about leadership qualities.



Holly Grossetta Nardini, Jan Glover, and Lei Wang
at the Lorimer Award reception

Photo: Michael Marsland

Holly Grossetta Nardini and Lei Wang received the Linda K. Lorimer Award for creating the Yale MeSH Analyzer, which helps researchers and librarians refine search strategies for systematic reviews.



Fanny Duprilot

Photo: Terry Dagradi

The CWML was fortunate to host an intern as part of a long-standing YUL partnership with ENSIB (École Nationale Supérieure des Sciences de l'Information et des Bibliothèques), the French national school for librarianship and information science. Fanny Duprilot worked with Rolando García-Milian and Assistant Director of Clinical Information Services Denise Hersey on the qualitative research project they led.



Florence Gillich

Photo: Joanne Wilcox

After 18½ years of service to Yale, Florence Gillich retired from the Medical Historical Library. Flo was a major force in shaping CWML's Digital Library and a favorite with library patrons.

PUBLICATIONS

- Brackett A. "Tips for the First-Year Health Sciences Librarian." *Medical Reference Services Quarterly*. 2016. 35(4): 454–460.
- Brandenburg MD and García-Milian R. "Interinstitutional collaboration for end-user bioinformatics training: cytoscape as a case study." *Journal of the Medical Library Association*. 2017. 105(2): 179–184.
- Funaro M and Nyhan K. "Expert searching: animal experimentation, compliance, and literature searching." *Medical Library Association News: Expert Searching Column*. 2017. May.
- Grafe M. "Catherine L. Thompson, patient expectations: how economics, religion and malpractice shaped therapeutics in early America." *Social History of Medicine*. 2017. 30(1): 229–230.
- Gruenbaum SE, Zlotnik A, Gruenbaum BF, Hersey D, and Bilotta F. "Pharmacologic neuroprotection for functional outcomes after traumatic brain injury: a systematic review of the clinical literature." *CNS Drugs*. 2016. 30(9): 791–806.
- Husain Z, Sahgal A, De Salles A, Funaro M, Glover JG, Hayashi M, Hiraoka M, et al. "Stereotactic body radiotherapy for de novo spinal metastases: systematic review: International Stereotactic Radiosurgery Society practice guidelines." *Journal of Neurosurgery: Spine*. 2017. 27(3): 295–302.
- Malhotra A, Wu X, Forman HP, Grossetta Nardini HK, Matouk CC, Gandhi D, Moore C, and Sanelli P. "Growth and rupture risk of small unruptured intracranial aneurysms: a systematic review." *Annals of Internal Medicine*. 2017. 167(1): 26–33.
- Malhotra A, Wu X, Kalra VB, Grossetta Nardini HK, Liu R, Abbed KM, and Forman HP. "Utility of MRI for cervical spine clearance after blunt traumatic injury: a meta-analysis." *European Radiology*. 2017. 27(3): 1148–1160.
- Mansour SG, Puthumana J, Coca SG, Gentry M, and Parikh CR. "Biomarkers for the detection of renal fibrosis and prediction of renal outcomes: a systematic review." *BMC Nephrology*. 2017. 18(1): 72.
- Meddings J, Saint S, Krein SL, Gaies E, Reichert H, Hickner A, McNamara S, Mann JD, and Mody L. "Systematic review of interventions to reduce urinary tract infection in nursing home residents." *Journal of Hospital Medicine*. 2017. 12(5): 356–368.
- Munro HP and Appel TA. "Pushing the cause of women in medicine ahead: Connecticut's women physicians during the first world war." *Connecticut History Review*. 2016. 55(2): 198–222.
- Neshat-Vahid S, Pierce R, Hersey D, Raffini LJ, and Faustino EV. "Association of thrombophilia and catheter-associated thrombosis in children: a systematic review and meta-analysis." *Journal of Thrombosis and Haemostasis*. 2016. 14(9): 1749–1758.
- Nwanyanwu K, Grossetta Nardini HK, Shaughnessy G, Nunez-Smith M, and Newman-Casey PA. "Systematic review of community-engaged research in ophthalmology." *Expert Review of Ophthalmology*. 2017. 12(3): 233–241.
- Park S, Abdi T, Gentry M, and Laine L. "Histological disease activity as a predictor of clinical relapse among patients with ulcerative colitis: a systematic review and meta-analysis." *American Journal of Gastroenterology*. 2016. 111(12): 1692–1701.
- Robinson AA, Jain A, Gentry M, and McNamara RL. "Left ventricular thrombi after STEMI in the primary PCI era: a systematic review and meta-analysis." *International Journal of Cardiology*. 2016. 221(15): 554–559.
- Wang L and Grossetta Nardini HK. "The Yale MeSH Analyzer: using technology to make searching more efficient." *Journal of the Medical Library Association*. 2016. 104(4): 355–357.
- Zuo L, García-Milian R, Guo X, Zhong C, Tan Y, Wang Z, Wang J, Wang X, Kang L, Lu L, Chiang-Shan RL, and Luo X. "Replicated risk nicotinic cholinergic receptor genes for nicotine dependence." *Genes*. 2016. 7(11): 95.

PRESENTATIONS

- Appel TA. "Roundtable: the library and the discipline in the twenty-first century; the librarian/archivist for medical history in universities: a resource for history of science as well as history of medicine." History of Science Society Annual Meeting. 2016. Atlanta, Ga.
- Arjona C, Gulez B, Seay M, Zheng J, Harmanci AS, Henegariu O, García-Milian R, Kamari Y, and Canaan A. "FAT10 silencing slows aging through several networks at the intersect of inflammation metabolism and innate immunity." 2nd Interventions in Aging Conference: Understanding mechanisms and compressing morbidity in aging humans. 2017. Cancun, Mexico.
- Batten J, Bagley P, DeSanto K, Harnke B, Hurst E, Jones J, Mason J, Myatt A, Schardt C, and Traditi L. Supporting Clinical Care: an institute in evidence-based clinical care for medical librarians: 3-day intensive workshop. 2016. Denver, Colo.
- Batten J, Baxter H, Lewis S, May N, Russell F, and Schardt C. Australian Evidence-based Practice Librarians' Institute: 4-day intensive workshop. 2016. Adelaide, Australia.
- Collins H, Adams N, Brennan E, Kovar-Gough I, Lorbeer E, Nicholson J, Ogawa R, Rambo N, Spak JM, Thormodson K, and von Isenburg M. "Association of Academic Health Sciences Libraries Task Force Evaluating Association of American Medical Colleges Core Entrustable Professional Activities." *Spotlight talk*: North Atlantic Health Sciences Libraries Chapter Meeting, 2016, New Haven, Conn. *Poster presentation*: Association of American Medical Colleges Annual Conference, 2016, Seattle, Wash.; Southern Chapter of the Medical Library Association Annual Conference, 2016, Greenville, S.C.; Tri-Chapter Medical Library Association Meeting, 2016, Philadelphia, Pa.; Medical Library Association Conference, 2017, Seattle, Wash. *Paper presentation*: Joint Meeting of the Midwest Chapter and Midcontinental Chapter of the Medical Library Association, 2016, Des Moines, Iowa; Medical Library Association Conference, 2017, Seattle, Wash. *Webinar*: National Network of Libraries of Medicine Pacific Southwest Region, 2016.
- Collins H, Adams N, Brennan E, Kovar-Gough I, Lorbeer E, Nicholson J, Ogawa R, Rambo N, Spak JM, Thormodson K, and von Isenburg M. "Can I trust you? Librarians' involvement in competency-based medical education." Poster presentation. Association of College and Research Libraries Annual Conference. 2017. Baltimore, Md.
- Funaro M, Grossetta Nardini HK, García-Milian R, Hersey D, Gentry M, and Nyhan K. "Animal research at Yale: how librarians are improving IACUC literature searches." North Atlantic Health Sciences Libraries Annual Meeting. 2016. New Haven, Conn.
- Funaro M and Nyhan K. "How the Cushing/Whitney Medical Library can support you through the lifecycle of your clinical trial." Yale Center for Clinical Investigation. 2017. New Haven, Conn.
- Galbraith S and Hickner A. "Peeking under the hood: understanding, assessing and improving your library's website." Webinar. Canada Health Libraries Association/Association Bibliothèque de la santé du Canada Educational Institute. 2017.
- Green M, Mueller J, and Spak JM. "Test-enhanced learning in health professions education: a systematic review." Poster presentation. International Association of Medical Science Educators Annual Meeting. 2017. Burlington, Vt.; Medical Education Day at Yale. 2016. New Haven, Conn.

Hersey D and Blanchat K. "So you want to do user testing: operationalizing a plan." Workshop on how to prepare for a service redesign project. New England Chapter of the Association for Information Science and Technology Meeting. 2017. Boston, Mass.

Hickner A. "Using Google Analytics to assess the library's social media presence and email newsletters." Medical Library Association Annual Meeting. 2017. Seattle, Wash.

Horan M. "Studying current trends in preservation education and employment." Standing Committee on Professional Awareness Forum. 2017. New Haven, Conn.

Lundsberg LS, Lee HC, Villarin Dueñas G, Gregory K, Grossetta Nardini HK, Pettker CM, Illuzzi JL, and Xu X. "Quality assurance practices in obstetric care: a survey of hospitals in California." AcademyHealth Annual Research Meeting. 2017. New Orleans, La.

Norton M and Funaro M. "Creating community: how our library dreamed big, dared to take chances and did something new." Medical Library Association Annual Meeting. 2017. Seattle, Wash.

Nyhan K. "Improving communication with international students." Reference, Instruction, and Outreach Summer Instruction Forum. 2016. New Haven, Conn.

Nyhan K. "Information resources for entrepreneurship." InnovateHealth Yale. 2016. New Haven, Conn.

Nyhan K, Funaro M, and Hersey D. "Library support for clinical and translational research: research data management and data science." Poster presentation. University of Massachusetts and New England Area Librarian e-Science Symposium. 2017. Worcester, Mass.

Spak JM, Ordway M, Fankhanel C, Sherrick V, and Holt S. "Ideas and innovations: highlights of the 2016 education literature." Panel presentation. Medical Education Day at Yale. 2016. New Haven, Conn.

IN THE CURRICULUM

Batten J. Faculty. "Evidence-based practice and literature searching." Nurse Residency Program. August 2016–June 2017. Yale New Haven Hospital.

Batten J. Faculty. "Finding evidence." Graduate Entry Prespecialty in Nursing Program. August 2016, October 2016, and January 2017. Yale School of Nursing.

Batten J and Coviello J. Faculty. "Evidence-based practice." NURS 958: Evidence. Fall 2016. Yale School of Nursing.

Glover JG and Spak JM. Faculty. "Evidence-based medicine." Medical Approach to the Patient Clerkship, Internal Medicine Boot Camp. September 2016, January 2017, March 2017, and June 2017. Yale School of Medicine.

Glover JG and Spak JM. Faculty. "Evidence-based psychiatry." Primary Care and Mental Health Clerkship Precede. July–November 2016, January–June 2017. Yale School of Medicine.

Glover JG and Spak JM. Guest lecturers. "Research I: searching the medical literature." September 2016. Yale Physician Associate Program.

Glover JG and Spak JM. Guest lecturers. "Research II." March 2017. Yale Physician Associate Program.

Grossetta Nardini HK and Glover JG. Guest lecturers. "Systematic review searching." National Clinician Scholars Program. November 2016. Yale School of Medicine.

Grossetta Nardini HK and Nyhan K. Guest lecturers. "Systematic review searching." CDE 650a: Introduction to Evidence-Based Medicine and Health Care. September 2016. Yale School of Public Health.

Hersey D. Guest lecturer. "Presentation on library resources and services at YSM New Ladder Faculty orientation." September 2016. Yale School of Medicine.

Hersey D. Guest lecturer. "Surgical Intensive Care Unit lunch lecture: finding the literature you need and managing it with Endnote." June 2017. Yale New Haven Hospital.

Hersey D and Spak JM. Guest lecturers. "Evidence-based searching." Surgical Approach to the Patient Clerkship. June 2017. Yale School of Medicine.

Nyhan K. Guest lecturer. "Biomedical literature and health disparities." HPM 545: Health Disparities. March 2017. Yale School of Public Health.

Nyhan K. Guest lecturer. "Geographic information systems and John Snow." Doctor of Nursing Practice Program. July 2016. Yale School of Nursing.

Nyhan K. Guest lecturer. "Identifying and appraising grey literature." EPH 555b: Practicum in Climate Change, Sustainability, and Public Health. February 2017. Yale School of Public Health.

Nyhan K. Guest lecturer. "Literature reviews: building a set of key articles." CDE 676: Questionnaire Development. January 2017. Yale School of Public Health.

Nyhan K. Guest lecturer. "Literature reviews: reaching saturation." CDE 676: Questionnaire Development. February 2017. Yale School of Public Health.

Nyhan K. Guest lecturer. "Managing research data." National Clinician Scholars Program. May 2017. Yale School of Medicine.

Nyhan K and Olivares M. Guest lecturers. "Geographic information systems and public health data sources." BIS 511: GIS Applications in Epidemiology and Public Health. January 2017. Yale School of Public Health.

Olivares M and Nyhan K. Guest lecturers. "Geographic information systems." National Clinician Scholars Program. April 2017. Yale School of Medicine.

Spak JM. Faculty. "Effectively searching the medical education literature." Medical Education Fellowship. September 2015. Teaching and Learning Center, Yale School of Medicine.

Wheeler S. Collection expert. "Early medical manuscripts." Medieval-Renaissance Forum. October 2017. Yale Department of the History of Art.

Wheeler S. Collection expert. "Selection of medical texts from the late 15th, 16th, and 17th centuries." HSHM 203: Making Medicine Modern. February 2017. Yale College.

Wheeler S. Collection expert. "16th-century anatomy texts." HSAR 282: Renaissance Bodies. November 2016. Yale College.

Wheeler S. Guest lecturer with special collections. "Patients" and "War." Sherwin B. Nuland Summer Bioethics Institute. June 2017. Yale Interdisciplinary Center for Bioethics.

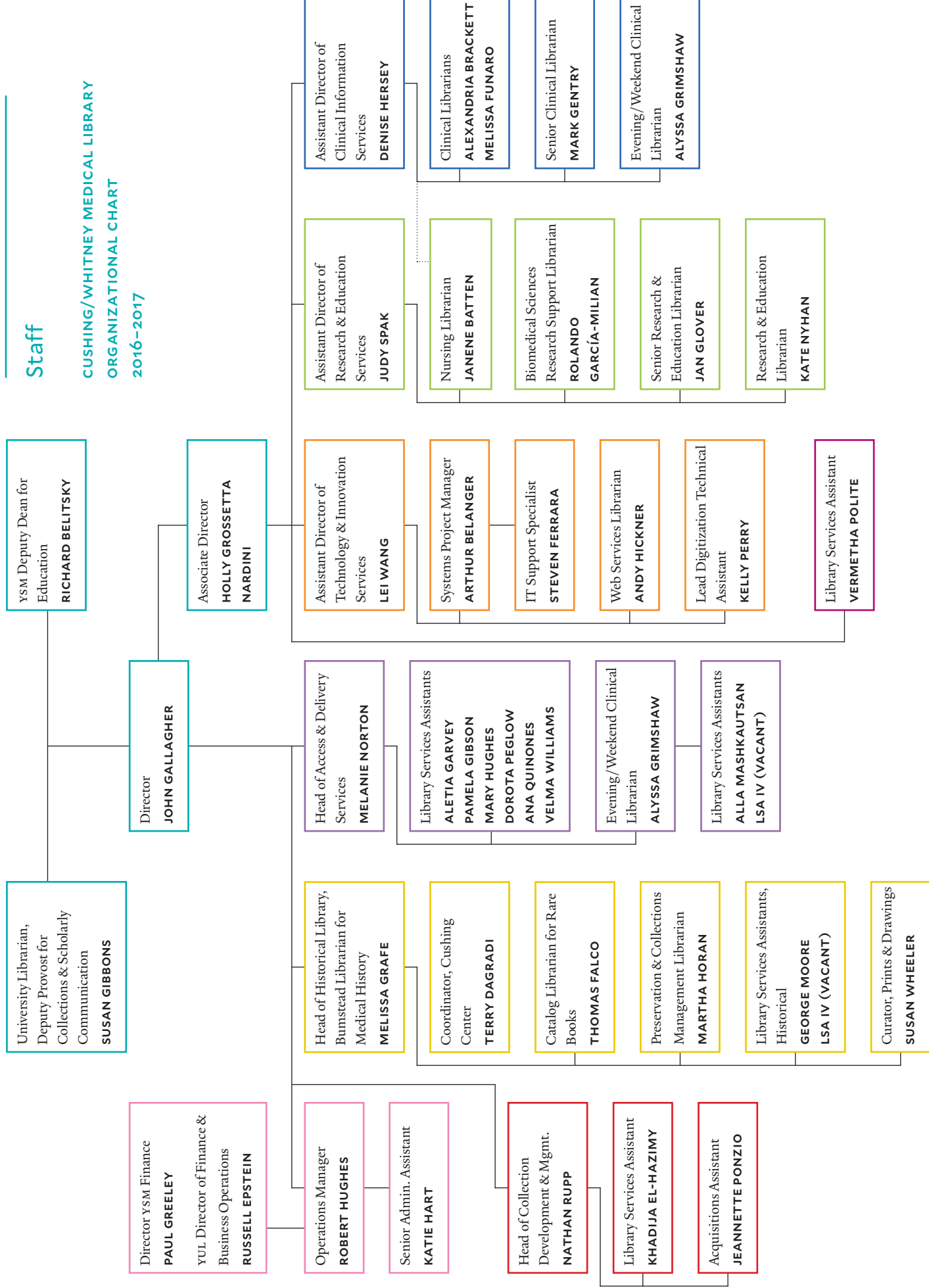
Wheeler S. Guest lecturer with special collections. "Selection of anti-smoking, anti-drug, and other public health posters from the 1970s to 1980s." HSHM 420: History of Addiction. March 2017. Yale College.

Wheeler S. Guest lecturer with special collections. "Vesalius's *Tabulae, Epitome, Fabrica*, and other 16th-century medical texts." ART 006: Art of the Printed Word. October 2016. Yale College.

Wheeler S and Grafe M. Guest lecturers with special collections. "Selections of public health, film, event, and novelty posters pertaining to health issues from the 1940s to the present." HSHM 202: Media and Medicine in Modern America. October 2016. Yale College.

Staff

CUSHING/WHITNEY MEDICAL LIBRARY ORGANIZATIONAL CHART 2016-2017





1891 German edition of
"White's Physiological
Manikin" (1886),
entitled *Anatomisch-
physiologischer Atlas des
Menschen*. See more
on p. 9

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