

Harvey Cushing / John Hay Whitney
Medical Library, Yale University

Annual Report, 2018–2019



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Cover: Dr. Douglas Hildrew leads a session in the new team-based learning classroom

Photo: Terry Dagradi

From the Director

Welcome! The theme for this year's Annual Report is *transformation*. As the members of the Yale School of Medicine Class of 2023 embark on their individual paths to become outstanding clinicians, researchers, and future leaders in medicine, many of their classes will take place in the Medical Library's newly renovated and entirely repurposed spaces. The large team-based learning classroom was designed specifically to facilitate the school's flipped curriculum education model. Bright and spacious, and equipped with technology that encourages collaboration, this classroom is a state-of-the-art education center. Nearby, eight breakout classrooms provide faculty and students the opportunity to further engage in discussion, exploration, and learning. When not used for education purposes, these rooms afford much-needed meeting, group study, and conferencing space. These enhancements expand the physical library as a social, informational, and educational hub for the Medical Center. We are so excited to welcome the medical curriculum into the library and for the opportunity to connect more people with the information and services we provide.

With a successful track record for innovation and creativity, the Yale University Library prides



Photo: Terry Dagradi

itself on its flexibility to change and adapt to best serve our users and their research and information needs. I am proud of the Cushing/Whitney Medical Library, its talented and dedicated staff, and all that has been accomplished this year, and it gives me great pleasure to present this year's Annual Report. I invite you to read about the myriad ways the library supports and advances the clinical, research, and educational goals of the individuals and teams we are so committed to serving.

John Gallagher

The Library, Transformed

It was an exceptional year of change and transformation for the physical infrastructure of the Cushing/Whitney Medical Library. In June we unveiled the long-anticipated renovated and repurposed library spaces. The impetus for this ambitious project was twofold: the need for modern classroom spaces in the Yale School of Medicine (YSM) and more functional work spaces in the library for all of our users. Designed by New Haven-based architects Apicella & Bunton, the renovation was a spectacular transformation that advances teaching, learning, and research in the heart of the Medical Center.

The YSM flipped curriculum model encourages students to learn concepts prior to class through faculty-created videos and related reading materials. Class time is then dedicated to guided group discussion and applying learned concepts to real-life cases. This method of teaching requires fluid and flexible spaces.



Medical Library renovation ribbon-cutting ceremony (L to R): Dr. Catherine Chiles, Susan Gibbons, Dr. Michael Kashgarian, Michael Schwartz, Dr. Richard Belitsky, John Gallagher, Holly Grossetta Nardini

Photo: Terry Dagradi

The Medical Library's skylit Information Room evolved into a 125-seat classroom, equipped with reconfigurable furniture and technology designed specifically to accommodate the revitalized medical education model.

On the lower level, brightly lit breakout classrooms replaced shelving that housed thousands of bound journals. The gradual transition to electronic journals had dramatically slowed the circulation of these print resources, and as a result over 150,000 items were transferred to the university's Library Shelving Facility, where they are still accessible to researchers. The reclaimed space was enough for six new classrooms that feature adjustable walls and furniture for maximum versatility. When not used for teaching, these rooms provide the medical community with much-needed space for a wide range of purposes. Additionally, four smaller meeting rooms offer added study and collaboration space within the library.

The new Information Commons features upgraded public computing clusters, with twenty-four workstations and six bring-your-own-device areas. All thirty computing spaces are equipped with large 27" displays. Distributed Support

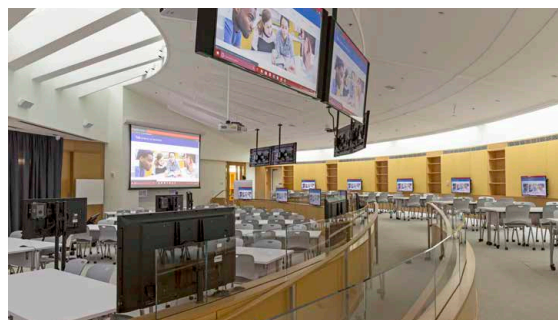
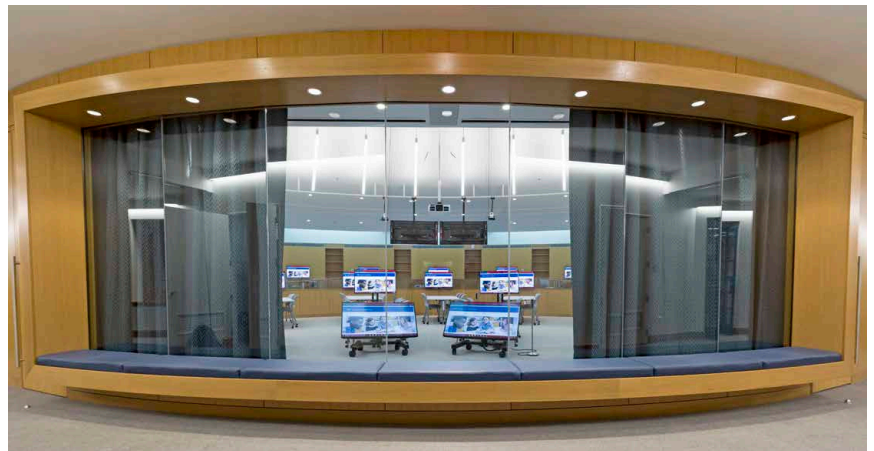
Provider Justin DeMayo, who considers himself responsible for "everything with a plug" in the library, was essential in the planning, installation, and testing of the technology in the new computing clusters. Justin continues to work closely with YSM's Office of Education and staff from ITS Media and Technology Services to configure and troubleshoot the new systems to ensure a smooth user experience for faculty, staff, and students.

The Medical Library continues to provide instructional design services in support of YSM's flipped curriculum. The renovated space features a brand new Faculty Video Production Studio, which is four times the size of the previous one, complete with soundproofing panels, furniture, lighting, and equipment. The studio reinforces the Medical Library's role as an important partner in the delivery of the YSM curriculum and aligns with Yale University Library's overall goal to be the center of learning at the university.

The Cushing/Whitney Medical Library has always been a place where community, information, and services intersect. Partnering with the YSM Office of Education to realize this transformation has been a fruitful collaboration.

"Our students come from an era in which they have rapid access to information, a high reliance on technology, and an emphasis on interactive learning, and the curriculum we implemented in 2015 is designed to reflect that. But if you change your pedagogy, you need different spaces that can better carry out these new ways of teaching."

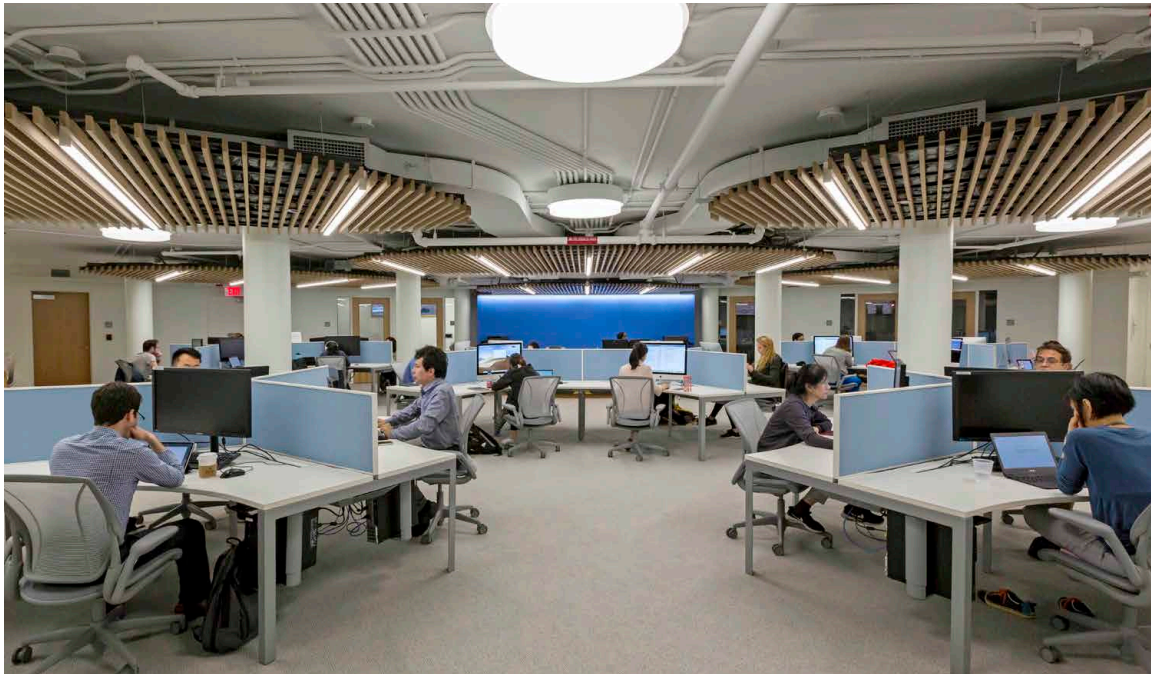
Richard Belitsky, M.D., Deputy Dean for Education



A view into the 125-seat team-based learning classroom

Modern technology and flexible furniture in the team-based learning classroom

Photos: Terry Dagradi



“Medicine today is a team-based endeavor. Our new curriculum reflects this reality, and the new classrooms give us effective spaces for helping our students develop the perspective and expertise to work this way. Learning is less about facts and more about the process of evaluating and applying information, so it makes a lot of sense to center this in the library.”

Michael Schwartz, Ph.D., Associate Dean for Curriculum



Information Commons on the lower level
Photo: Terry Dagradi



Janene Batten teaches in 112B, a 16-seat classroom on the main level
Photo: Christopher Gardner

Six small-group classrooms on the lower level can be combined to accommodate 32 people
Photo: Terry Dagradi



Lei Wang assists Dr. Auguste Fortin in the Faculty Video Production Studio
Photo: Kelly Perry

The Embedded Library

TEACHING AND COMMITTEE WORK

As partners in medical education, Medical Library staff provide instruction in courses throughout Yale. This past year, our staff were guest lecturers in thirty-five courses across the Medical Center and Yale College curriculums. A key partner in educational assessment, library staff also participate on various committees involved in evaluating and improving programs in the Medical Center, such as the YSM Educational Policy and Curriculum Committee, the YSPH Working Group on Research, and the Physician Associate Program Assessment Committee. We are deeply engaged in all aspects of Medical Center community life, with staff serving on committees ranging from the YSM Security Committee to the Art in Public Spaces Committee.

SECONDARY APPOINTMENTS

Biomedical Sciences Research Support Librarian Rolando Garcia-Milian and Research and Education Librarian for Public Health Kate Nyhan received appointments as Lecturers in Epidemiology in recognition of their exceptional support at the Yale School of Public Health (YSPH). Rolando has collaborated and published with researchers on multiple projects, providing support in the use of the Medical Library's many tools for analyzing -omics data. Kate provides consultations to students, faculty, and researchers on issues such as open access, research reproducibility, and finding evidence-based public health literature. She also teaches in multiple courses across the YSPH curriculum.

CLERKSHIP CURRICULUM INTEGRATION

Building on last year's integration across the YSM clerkship curriculum, Assistant Director of Research and Education Services Judy Spak and Research and Education Librarian Caitlin Meyer became even more involved this year with the Evidence-Based Medicine Write-Up assignment. Students in this internal medicine clerkship reflect on a patient interaction, construct a search strategy, consult multiple resources, and critically appraise the most relevant article. Judy and Caitlin provide in-depth feedback on each answer and score the assignment based on a rubric. The assignment



was developed with faculty member Dr. Dana Dunne to assess students' abilities prior to entering residency in accordance with standards set forth by the Association of American Medical Colleges (AAMC).

EXPANDING OUR REACH

Saint Raphael Campus & York Street Campus

Over the past year, our clinical librarians have strategically implemented new support for Yale New Haven Hospital's (YNHH) Saint Raphael Campus (SRC). Access Services/Clinical Librarian Alyssa Grimshaw now offers regularly scheduled, in-person evening sessions at the SRC in addition to the Medical Library and York Street Campus programming. The schedule includes Mobile App Monday sessions, where Alyssa helps users download, set up, and effectively use point-of-care applications licensed by the Medical Library; and Walk-In Wednesdays, where she answers questions about citation management, literature searching, and library resources. The clinical team also hosted two informational events at the SRC to introduce the community to the services and resources available to them through the library. The hot chocolate event held in January for residents and fellows was exceptionally popular.

Melissa Funaro, Lindsay Barnett, and Alexandria Brackett offer hot chocolate to residents and fellows during Resident Appreciation Week

Photo: Holly Grossetta Nardini



Melissa Grafe teaches Yale undergraduates using the Medical Library's special collections
Photo: Jessica Lamont

Additionally, the clinical librarians are working to facilitate evidence-based practice by becoming partners in patient rounding. Assistant Director of Clinical Information Services Katherine Stemmer Frumento started rounding twice a week with the Primary Care teams at the SRC to quickly answer clinical questions that arise during patient bedside visits. In the first four months of rounding, clinical librarians have provided evidence-based patient care information for more than 100 queries.

Yale School of Nursing

The Medical Library partnered with colleagues at West Campus for the first-ever Yale School of Nursing (YSN) Faculty Development Workshops this past fall and summer. The program included a full slate of informational sessions and workshops relevant to YSN faculty's teaching and research interests. Sessions included: The Librarian as Research Partner, Scholarly Communication, Research Impact Basics, The Librarian in Your Class, Working with Data, Design Basics, and Educational Scholarship.

Faculty attendees developed new relationships with the medical librarians and scheduled many follow-up consultations.

SPECIAL COLLECTIONS TEACHING

During our renovations, the Historical Library staff relocated one of its largest and most popular lectures, "Media and Medicine," to Sterling Memorial Library. Over the course of three days in October, more than 200 Yale College students interacted with posters, pamphlets, and other historical material for discussion and research. Curator Susan Wheeler and Head of the Medical Historical Library Melissa Grafe led multiple sessions exploring these collections. Students left with project ideas and a greater understanding of the many types of media used in the promotion of medicine and health.

Supporting the University Science Strategy

In June 2018 Yale released the University Science Strategy (USS) to guide and encourage investments in science infrastructure over the next decade. Yale University Library's response highlighted five areas of current support that dovetail with areas of the USS focus: Research Support, Marketing and Outreach, Collections, Scholarly Communications, and Software Management. While this work is evolving, some examples of the Medical Library's contributions are mentioned below.

BIOINFORMATICS SUPPORT

The Medical Library offers a broad suite of software for the analysis, annotation, visualization, and integration of multi-omics (e.g., transcriptomics, proteomics, metabolomics) data. Among the most popular are Ingenuity Pathway Analysis (IPA), Partek Flow, and Qlucore Omics Explorer. This software empowers researchers to interact with and analyze their own data where a biostatistician would traditionally be needed. This year we expanded our collection to include MetaDrug and Integrity. MetaDrug provides information on biological effects of small compound molecules, while Integrity focuses on pharma and drug development intelligence. In addition to software, the Medical Library offered a robust slate of training sessions and consultations for over 600 Yale biomedical researchers.

Now in its fifth year, the bioinformatics support program has expanded to offer embedded, instructional support. This year Rolando gave lectures in B&BS 550b, Skill Development for Diverse Scientific Careers, and EHS 562b, Applications of -Omics Technologies in Public Health: Biomarkers to Big Data. Next year, through the generosity of Stan Simbonis '53, '57 M.D., the Medical Library will inaugurate a new eighteen-month fellowship program. The first fellow will be a scientist interested in medical librarianship and will support bioinformatics services.

RESEARCH DATA SUPPORT

To establish library data services in the Medical Center, Sawyer Newman joined the Medical Library as the inaugural Data Librarian for the Health Sciences. Sawyer identifies gaps and solves problems that researchers and other stakeholders encounter while working with research data. Sawyer began offering in-person information sessions to address graduate students' needs such as programming languages, data manipulation and cleaning, and conceptualizing data-driven research. In the coming year, the Medical Library will develop a data catalog for the Medical Center to increase data findability and understanding of data resources available at Yale.



Rolando Garcia-Milian teaches a class on bioinformatics

Photo: Kelly Perry



Sawyer Newman and graduate students during a data management consultation

Photo: Terry Dagradi



EVIDENCE SYNTHESIS SUPPORT

Our medical librarians continue to partner with faculty and researchers on systematic review and evidence synthesis projects. Collectively, our librarians co-authored twenty-two published systematic review articles in the past year, twice as many as the year before.

To improve expert searching and methodology skills, the Medical Library hosted librarians from the University of Michigan for a multiday comprehensive searching and systematic review training course. The library continues to streamline processes through staff cross-training and identifying opportunities to improve efficiency by exchanging ideas, tools, tips, and tricks. For example, this year staff created a reproducible reference deduplication procedure for systematic reviews that, on average, saves nine hours per project.

SCHOLARLY COMMUNICATION SUPPORT FOR PUBLISHING

Support for scholarly communication is growing at the Medical Library. Collection Development and Scholarly Communication Librarian Lindsay Barnett provides many specialized services

including evaluating publication venues for manuscripts, comparing different publishing models, and navigating copyright and author's rights. Through a partnership with the YSM Office of Student Research, Lindsay consults on copyright and publishing questions for students submitting their M.D. theses. The Medical Library continues to work to increase the accessibility of open access publishing to researchers by establishing new partnerships with publishers. This includes securing discounts on article processing charges (APCs) and helping researchers with APC waiver requests.

Medical librarians and regional colleagues during the searching and systematic review training led by librarians from the University of Michigan

Photo: Dana Haugh

New in the Library

COLLECTIONS

Library collections and electronic resources are essential sources of information for biomedical education, research, and patient care. The Medical Library subscribed to a number of new resources in response to requests from users across the Medical Center.

The Medical Library licensed MedOne Plastic Surgery, a database representing current scholarship in every aspect of plastic surgery. Plastic surgery residents were particularly interested in this resource, and it has seen consistently high usage since the subscription was initiated.

Through a cost-sharing partnership with the Lillian Goldman Law Library, the Medical Library subscribed to STAT Plus, a premium news service covering advancements in the health sciences, pharma, and biotech industries.

Acquisition Spotlight

Building on a strong collection of historical texts on surgery, and a growing focus on plastic surgery, the Historical Library acquired Johann Friedrich Dieffenbach's *Chirurgische Erfahrungen, besonders über die Wiederherstellung zerstörter Theile des menschlichen Körpers nach neuen Methoden* (1829–34). Dieffenbach, a Berlin surgeon operating in the early nineteenth century, discusses various techniques for reconstructing the ears, lips, and other parts of the body, including rebuilding the nose using a forehead flap.

FACILITATING ACCESS, LOCALLY AND GLOBALLY

Hinari Access to Research for Health Programme

For years, Library Services Assistant Jeannette Ponzio has helped provide access to hundreds of medical articles and books to low- and middle-income countries through the World Health Organization's Hinari Programme. The program, of which the Medical Library is a founding member, was launched in 2002 and enables countries with limited or no resources to access cutting-edge medical research from some of the largest publishers in the world. Jeannette's work

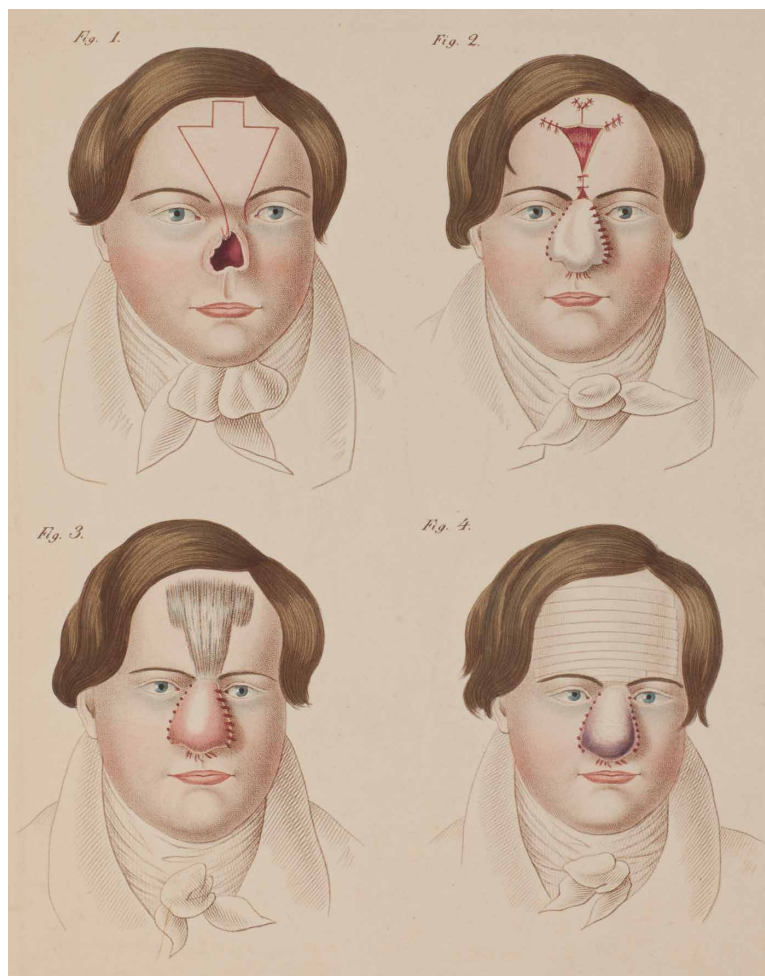


Photo: Terry Dagradi

NEW CLASSES AND WORKSHOPS

Design Basics – How to Create Better Visuals

Introduction to Data Visualization in R with ggplot2

Introduction to Google Analytics

Introduction to R with Swirl

Mobile Apps Mondays

Research Data Management for the Health Sciences

Research Impact Basics

Scholarly Communication Basics

Walk-in Wednesdays



Alyssa Grimshaw and Vasean Daniels examine collections
Photo: Terry Dagradi



Lisa Sanders reclassifies medical biographies
Photo: Terry Dagradi

6,772

reference questions,
referrals, and research
consultations

826

classes and orientations
provided by the library

11,064

attendees at library
classes, tours, and
orientations

2,325

links to library resources
provided for 95 courses

4,079

articles and books lent
to other libraries

5,357

articles sent to our
patrons through Scan
and Deliver services



Mary Hughes and Dorota Peglow process
materials for scan and delivery services
Photo: Terry Dagradi



Alla Mashkautsan welcomes visitors
at the circulation desk
Photo: Terry Dagradi

on Hinari is just one example of the Cushing/Whitney Medical Library's global impact in support of medical research.

Medical Biography Reclassification

On the home front, our medical biographies were given new prominence through a reclassification project. In the Morse Reading Room, an expansive collection of medical biographies lines the shelves surrounding the quiet study spaces. To improve browsing and discovery of the collection, Library Services Assistants Vasean Daniels, Alla Mashkautsan, and Lisa Sanders reclassified more than 9,500 biographies into a simpler classification system. The new system is organized by the subject's last name, making it easier for researchers to discover the stories of eminent physicians and medical professionals throughout the centuries.

THE PATIENTS IN CUSHING'S WORLD: 10,000 PHOTOGRAPHIC NEGATIVES NOW CATALOGED

Dr. Harvey Cushing's Brain Tumor Registry is an extraordinary collection of over 600 brain and tumor specimens and nearly 15,000 clinical portraits of patients. The photographs, which are affixed as negatives to glass plates, are a visual portal into early neurosurgery and patient care. The Cushing Center, which opened in 2010, displays parts of Cushing's remarkable collection, including patient photographs developed from these negatives.

The Historical Library began a project to catalog and rehouse these negatives and, with the help of a grant from the National Network of Libraries of Medicine—New England, the 10,000th negative was recently cataloged. Staff and researchers continue to have greater insight into the patients that Cushing treated, the conditions they suffered from, and how medical photography shaped patient care in the early twentieth century.

RESEARCH DATA SITE

In March, the Medical Library launched a new web portal dedicated to information and library services for research data in the health sciences. Users can find information about best practices, definitions in data science and management, software



Judy Spak speaks with Dr. Darin Latimore about the Medical Library's research data portal during Love My Data week
Photo: Terry Dagradi

best suited for working with data, and how to get guidance on significant health science datasets. The portal also showcases training sessions, data events throughout Yale, consultation opportunities, and office hours.

WEBSITE AND DIGITAL SIGNAGE

The Medical Library continually strives to enhance our users' experiences, in person and online. Over the past year, Web Services Librarian Dana Haugh redesigned our digital spaces to communicate a library brand and message that resonate with the medical community. Dana restructured the website to focus on information discovery, usability, and cohesiveness, and streamlined the layout to facilitate site navigation.

To promote services and resources to library visitors, Dana reimagined the digital sign at the Medical Library's entrance to feature creative and captivating images on everything from new workshops to library resources to grants and fellowships. Additionally, the email newsletter has been optimized for readability and reaches over 16,000 individuals with news of upcoming classes, new acquisitions, and library services.

205,156
visitors to the Medical
Library website from
201 countries and
territories

268,886
in-person visitors to
the Medical Library

339
guided tours of the
Cushing Center

Exhibits



During the Medical Library's open house, Melissa Grafe shows an item from special collections to Dr. Cyrus Kapadia and Michael Fitzsosa
Photo: Terry Dagradi



JANUARY 9, 2018–JANUARY 20, 2019

Highlights of New Acquisitions in the Medical Historical Library, Collection of Prints and Drawings and Historical Medical Posters

JANUARY 25, 2019–JUNE 26, 2019

Selections of Recent Acquisitions in the Historical Medical Poster Collections

JUNE 27, 2019–FALL 2019

Grant Wood's American Gothic Repurposed and Several Anti-Smoking Acquisitions from the Collection of Historical Medical Posters

HIGHLIGHTS

October 29, 2018–April 5, 2019

Selling Smoke: Tobacco Advertising and Anti-Smoking Campaigns

(Sterling Memorabilia Room)

For well over a century, the tobacco industry has been selling smoke in America and abroad, aligning the idea of smoking with celebrities, promises of health benefits, memorable slogans, and promotional sweepstakes. *Selling Smoke* exhibited a wide array of tobacco advertising alongside anti-smoking campaign materials drawn from the William Van Duyen collection of magazine

advertisements, articles, and pamphlets related to tobacco and cigarette-smoking. Additional anti-smoking posters from the Historical Library's collections represented national and international efforts to eliminate smoking worldwide. An online exhibit is available.

May 30–September 30, 2019

Celebrating 90 Years of the Yale Journal of Biology and Medicine (YJBM)

Founded in 1928 by Milton C. Winternitz, the *Yale Journal of Biology and Medicine (YJBM)* is the oldest student-run medical publication still in production. In 2018 journal staff discovered historical documents related to their founding and operation. They collaborated with Historical Library staff to create a 90th anniversary celebration that explored the accomplishments and challenges of student editorship and the vivid history of the *YJBM*.

YALE JOURNAL OF BIOLOGY AND MEDICINE



CELEBRATING 90 YEARS 1928–2018

Library Supporters and Friends

DONORS

Gifts of \$250 or more

Robert P. Bazemore	Katherine M. Philbin
John Booss	Philip J. Rich
Irwin M. Braverman	Jody D. Robinson
Michael E. Carey	Robert M. Rosa
Charles A. Coffin	Seth A. Rosenthal
Memorial Fund	Frederick C. Sherman
Robert B. Diasio	Yung H. Son
Jennifer L. Eras	Dennis D. Spencer
Maxwell G. Farina	Lauren T. Spiliotes
Lesley F. Fishelman	Shepard B. Stone
Robert B. Johnson	Lee H. Strohl
Arthur F. Jones	Robert B. Vranian
Michael Kashgarian	Karl G. Wagner
Anne W. Lucky	Dora L. Wang
Paul A. Lucky	Edward D. Wang
Linda L. Maerz	Wilderness Spine
Robert Marcus	Services, P.C.
Kent K. Min	Kristine M. Zanotti

BECOME A FRIEND OF THE CUSHING/ WHITNEY MEDICAL LIBRARY

Through the generosity of our Associates, the Cushing/Whitney Medical Library provides essential support for biomedical education, research, and patient care. We encourage you to consider supporting these invaluable and comprehensive resources 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 our website. All gifts are tax-deductible.

MAJOR GIFTS

This year, the Historical Library welcomed the Hall-Benedict Drug Company logbooks and ledgers, a gift from Thomas F. and Helen Formichella. The Hall-Benedict Drug Company, which operated from 1909 to 1998 in the East Rock neighborhood of New Haven, was one of the oldest independent drugstores in Connecticut. The establishment was owned and managed by the Hall, Benedict, and Formichella families. The pharmacy contained a soda fountain, which was a popular attraction for children and busloads of visitors to East Rock Park. Comprising seventy-five volumes and six boxes of prescription logbooks



Khadija El-Hazimy working
at the circulation desk
Photo: Terry Dagradi

and financial ledgers, the collection is a nearly complete record of the pharmacy's operations from 1909 to 1970.

The Medical Library also accepted gifts from the following generous donors:

Bradford Gray, Ph.D. '73: books from his collection
Jessica Helfand: books from the library of William Helfand

Harold R. Mancusi-Ungaro, Jr., '69, M.D. '73:

50 volumes from the Classics of Medicine

William Sherman, M.D.: 2 medical instruments
and print

Gifts for the general collection were accepted from:

Dr. Adil Bhutta, Internal Medicine

Harold Doshan

Dr. Myron Genel, Professor Emeritus of Pediatrics
(Endocrinology) and Clinical Professor of Nursing

Dr. J. Lance Lichtor, Anesthesiology

Catherine Fuller Miller

Taylor Ottesen, Yale School of Medicine

Dr. Derek Ou, Yale School of Medicine

Dr. Clifford Sung, Yale New Haven Hospital

GIFT PAVES THE WAY FOR LIBRARY'S FIRST FULL-TIME ARCHIVIST

In October, Katherine Isham joined the Historical Library as its first full-time archivist. Katherine's position is funded by the Yale Archives of Plastic Surgery, which was endowed through a generous gift from an anonymous donor. In her role, Katherine aims to provide better access to digital materials, increase awareness of collections, and expand archival collections to document women in medicine at Yale.



Photo: Terry Dagradi

Staff Highlights

LONGTIME SERVICE AWARDS

25 years — Judy Spak
15 years — Chris Zollo
10 years — Katie Hart
5 years — Rolando Garcia-Milian

NEW STAFF

The Medical Library welcomed five new staff members in four departments.

[Dana Haugh](#), Web Services Librarian

[Katherine Isham](#), Archivist

[Sawyer Newman](#), Data Librarian for the Health Sciences

[Laura O'Brien-Miller](#), Conservator

[Lisa Sanders](#), Library Services Assistant

AWARDS

[Katie Hart](#), the Medical Library's Senior Administrative Assistant, was awarded the Future Leaders of Yale's first "Visionary" award in a ceremony recognizing early career professionals at Yale. Katie was nominated by Bob Hughes for her exceptional leadership and foresight, especially during this past year's renovation.

[Janene Batten](#), Nursing Librarian, received the "Achievement Award" from the North Atlantic Health Sciences Libraries (NAHSL), a regional chapter of the Medical Library Association. The award was established to recognize members who have served NAHSL faithfully for many years and contributed in a special way to the health sciences library community in New England.



New staff (l to r): Katherine Isham, Sawyer Newman, Lisa Sanders, Dana Haugh

Photo: Terry Dagradi



Katie Hart and colleagues at FLY award ceremony

Photo: John Hart



John Gallagher presents Janene Batten with the NAHSL Achievement Award
Photo: Holly Grossetta Nardini

PUBLICATIONS

We had a very productive year for publications. From July 2018 through June 2019, publications by Medical Library staff included thirty-seven co-authored articles and one co-authored book chapter.

Janene Batten

“Agreement between actigraphic and polysomnographic measures of sleep in adults with and without chronic conditions: a systematic review and meta-analysis.” *Sleep Medicine Reviews*. 2019. 46: 151–160. With Conley S, Knies A, Ash G, Miner B, Hwang Y, Jeon S, Hwang Y, and Redeker NS.

“Sexual minority men and the experience of undergoing treatment for prostate cancer: an integrative review.” *European Journal of Cancer Care*. 2019. With Moore M and Lazenby M.

Alexandria Brackett

“Chapter 28 – Role of neuroinflammation in the pathophysiology of traumatic brain injury.” In Minagar A, ed. *Neuroinflammation (Second Edition)*. 2018. 563–578. With Wu C, Lee R, Lee M, e Silva A, Hsieh TH, Possoit H, and Lin H.

“Association of conflicts of interest with the results and conclusions of goal-directed hemodynamic therapy research: a systematic review with meta-analysis.” *Intensive Care Med*. 2018. 44(10): 1638–1656. With Zhang L, Dai F, Ai Y, and Meng L.

“Differentiation of lymphomatous, metastatic, and non-malignant lymphadenopathy in the neck with quantitative diffusion-weighted imaging: systematic review and meta-analysis.” *Neuroradiology*. 2019. 61(8): 897–910. With Payabvash S, Forghani R, and Malhotra A.

“Meta-analysis of recent literature on utility of follow-up imaging in isolated perimesencephalic hemorrhage.” *Clinical Neurology and Neurosurgery*. 2019. 180: 111–116. With Geng B, Wu X, and Malhotra A.

Melissa Funaro

“Improving community well-being through collaborative initiatives at a medical library.” *Journal of the Medical Library Association*. 2019. 107(3): 425–431. With Rojiani R and Norton MJ.

“Improving healthcare professionals’ well-being through the use of therapy dogs.” *Journal of Hospital Librarianship*. 2018. 18(3): 203–209. With Norton MJ and Rojiani R.

“Integration of care for HIV and opioid use disorder: a systematic review of interventions in clinical and community-based settings.” *AIDS*. 2018. With Oldfield BJ, Muñoz N, McGovern MP, Villanueva M, Tetrault JM, and Edelman EJ.

“Tight junction structure, function, and assessment in the critically ill.” *Shock*. 2018. 49(6): 82. With Vermette D, Hu P, Canarie M, Glover J, Balda M, and Pierce RW.

“Tight junction structure, function, and assessment in the critically ill: a systematic review.” *Intensive Care Medicine Experimental*. 2018. 6(1): 37. With Vermette D, Hu P, Canarie M, Glover J, Balda M, and Pierce RW.

Rolando Garcia-Milian

“Data challenges of biomedical researchers in the age of omics.” *PeerJ*. 2018. With Hersey D, Vukmirovic M, and Duprilot F.

“Evaluation of potential carcinogenicity of organic chemicals in synthetic turf crumb rubber.” *Environmental Research*. 2019. 169: 163–172. With Perkins AN, Inayat-Hussain SH, Deziel NC, Johnson CH, Ferguson SS, Boyles AL, Thompson DC, and Vasiliou V.

“Hepatic metabolic adaptation in a murine model of glutathione deficiency.” *Chemo-Biological Interactions*. 2019. 303: 1–6. With Chen Y, Golla S, Thompson DP, Gonzalez FJ, and Vasiliou V.

“Integrated multi-omics approach reveals a role of ALDH1A1 in lipid metabolism in human colon cancer cells.” *Chemico-Biological Interactions*. 2019. 304: 88–96. With Charkoftaki G, Thompson D, Engel J, Golla JP, Lam T, and Vasiliou V.

“Molecular mechanisms of the progression of cisplatin-induced acute kidney injury to chronic kidney disease.” *Kidney International*. 2019. 94(4): 797–814. With Landau S, Guo X, Velazquez H, Torres R, Olson E, Moeckel G, Desir GV, and Safirstein R.

“Prioritization of reproductive toxicants in unconventional oil and gas operations using a multi-country regulatory data-driven hazard assessment.” *Environment International*. 2018. 117: 348–358. With Inayat-Hussain S, Aziz AM, Fukumura M, Chai MJ, Deziel N, Vasiliou V, and Low WJ.

“Resilience to pain: a peripheral component identified using induced pluripotent stem cells.” *The Journal of Neuroscience*. 2018. 39(3): 382–392. With Mis M, Yang Y, Tanaka B, Gomis-Perez C, Liu S, Dib-Hajj F, Adi T, Schulman B, Dib-Hajj D, and Waxman S.

Alyssa Grimshaw

“Incidence of ventricular arrhythmias, appropriate device therapies, and mortality among patients with cardiac sarcoidosis with an implantable cardioverter defibrillator: a meta-analysis.” *Circulation*. 2018. 138: A15171. With Annapureddy A, Mingos K, Annapureddy T, Murugiah K, Curtis J, Freedman J, and Miller E.

Melissa Funaro. “Microcirculation dysfunction in critically ill children: a systematic review.” *Shock*. 2019. 51(6S1): 121. With Maitoza L, Neeman E, and Pierce RW.

In June 2017, Dr. Richard Pierce from YSM’s Pediatrics department contacted Melissa to collaborate on a systematic review of critical illness. With the help of Jan Glover, Melissa and Richard developed a three-page search methodology on critical illness. The same methodology was used when Richard came back for an additional search on critical illness and microcirculation as well as one on Methylene blue. Both articles have been submitted for publication, and the systematic review on Methylene blue will be presented at a conference. The collaboration with Pierce sparked another systematic review with Eitan Neeman, also of Pediatrics, on ultrasound in pediatric emergency medicine.

“Melissa and I have completed three reviews together and each one goes smoother than the last, allowing us to focus more on the content. Having a consistent team is extremely helpful, and I look forward to completing new reviews in the future!”

— Dr. Richard Pierce

Holly Grossetta Nardini

"Fellow eye status is a biomarker for the progression rate of geographic atrophy: a systematic review and meta-analysis." *Ophthalmology Retina*. 2019. 3(4): 305–315. With Shen LL, Liu F, and Del Priore LV.

Judy Spak

"Transformative learning as pedagogy for the health professions: a scoping review." *Medical Education*. 2019. 53(6): 547–558. With Van Schalkwyk SC, Hafler J, Brewer TF, Maley MA, Margolis C, McNamee L, Meyer I, Peluso MJ, Schmutz AM, Davies D, and Bellagio Global Health Education Initiative.

PRESENTATIONS

Forty-five presentations were given across the United States.

Medical Library Association (MLA) 2019 Annual Meeting, Chicago, Ill.

The Medical Library Association's annual meeting is the largest medical library meeting in the United States, drawing over 2,400 attendees each year. The Medical Library had a large presence at this year's annual meeting, with thirteen presentations given by eleven staff members.

MLA Papers, Sessions, & Lightning Talks

Funaro M and Nyhan K. "Experiences of animal researchers: their required literature search for alternatives and their use of reporting guidelines."

Grimshaw A. "Yale School of Nursing pop-up library."

Meyer C and Brackett A. "Elevating the understanding of library resources: librarians working with clinical departments' administrative assistants."

Nyhan K. "Biomedical Bhutan through bibliometrics."

Nyhan K. "Yes, it really is necessary to use controlled vocabulary in systematic reviews."

MLA Poster Presentations

Barnett L, Grimshaw A, and Norton MJ. "Are resource-sharing statistics a reliable metric to determine the impact of journal cancellation?"

Brackett A and Newman S. "Data visualization as a point-of-need service within research data management: working with faculty to showcase professional connections."

Grimshaw A. "Long night against procrastination."

Grimshaw A and Nyhan K. "Going it alone: systematic reviews without assistance from a librarian."

Haugh D. "Where do I find...? An analysis of 13 medical library website homepages."

Melissa Grafe, who continues to serve as president of ALHHS (Archivists and Librarians in the History of the Health Sciences) and the Medical Heritage Library, has written multiple columns on issues related to medical archives, libraries, and museums. She has also written articles highlighting Yale's work with the Medical Heritage Library to develop a massive medical historical image database.

"The Medical Heritage Library Flickr: over 2.2 million images available online!" *The Watermark*. 2019. 42(2): 24–25.

Presidential columns for *The Watermark*. 2018–2019.

"Yale digitizes medieval and renaissance medical and scientific manuscripts." *The Watermark*. 2019. 42(2): 22–24.

Melanie Norton, Head of Access and Delivery Services, co-authored an article with Dr. John Booss, Professor Emeritus and Library Associate. The collaboration was serendipitously born when Dr. Booss returned a book about the Whitman massacre and Melanie recalled a family connection to victims of that tragedy.

Norton MJ and Booss J. "Missionaries, measles, and manuscripts: revisiting the Whitman tragedy." *Journal of the Medical Library Association: JMLA*. 2019. 107(1): 108–113.

Additional publications:

"Civilization and Disease." *Journal of the Medical Library Association: JMLA*. (book review) 2019. 107(1): 115–116.

"Improving community well-being through collaborative initiatives at a medical library." *Journal of the Medical Library Association*. 2019. 107(3): 425–431. With Funaro M and Rojiani R.

"Improving healthcare professionals' well-being through the use of therapy dogs." *Journal of Hospital Librarianship*. 2018. 18(3): 203–209. With Funaro M and Rojiani R.

Haugh D and Saragossi J. “Implementing a digital experience for the physical exhibit – dental instruments, past and present.”

Newman S, Gamble G, Ritchie J, Ross J, and Grossetta Nardini H. “Exploring the reuse of clinical trial data made available through the YODA Project: a medical library perspective.”

Additional Presentations, 2018

Annapureddy A, Minges K, Annapureddy T, Grimshaw A, Murugiah K, Curtis J, Freedman J, and Miller E. “Incidence of ventricular arrhythmias, appropriate device therapies, and mortality among patients with cardiac sarcoidosis with an implantable cardioverter defibrillator: a meta-analysis.” Poster presentation. American Heart Association Scientific Sessions. Chicago, Ill.

Barnett L and Norton MJ. “Are resource-sharing statistics a reliable metric to determine the impact of journal cancellation?” North Atlantic Health Sciences Libraries Conference. Manchester, N.H.

Freer J, Haugh D, Saragossi J, Witt A, Breitkopf M, and Greco N. “Ins and outs of professional collaborations.” New York Library Association Annual Conference and Trade Show. Rochester, N.Y.

Grafe M. “Medical Heritage Library, Inc.: opening access to seven centuries of medical history.” Online forum. Center for Research Libraries and Northeast Research Libraries Consortium eDesiderata Forum on Investing in Open Primary Sources.

Grafe M and Wheeler S. “Selections from the Historical Collections.” Special Session for Pulmonary Physicians, Yale New Haven Hospital. New Haven, Conn.

Grimshaw A. “Long night against procrastination.” North Atlantic Health Sciences Libraries Conference. Manchester, N.H.

Grimshaw A. “Yale School of Nursing pop up library.” North Atlantic Health Sciences Libraries Conference. Manchester, N.H.

Meyer C. “Using Qualtrics to create self-assessment-driven research workshops.” Lightning talk. North Atlantic Health Sciences Libraries Conference. Manchester, N.H.

Meyer C and Brackett A. “Investigating research and clinical education services in regional health science libraries.” Paper presentation. North Atlantic Health Sciences Libraries Conference. Manchester, N.H.

Morrison AA, Shields R, Olezeski C, Spak JM, Cron J, and Kallen A. “Fertility preservation and effects of gender-affirming hormone therapy for trans and gender non-conforming individuals: a systematic review.” Paper presentation. 36th GMLA Annual Conference on LGBTQ Health. Las Vegas, Nev.

Newman S. “Status of data services at the Cushing/Whitney Medical Library.” Data Management Roundtable. New Haven, Conn.

Gallagher J, Barnett L, Gamble G, Nyhan K, and Grossetta Nardini H. “Biomedical preprints and the future of scholarly communication: the librarian’s role.”

“Preprints” are scholarly papers as they exist before peer review. Some researchers share preprints on preprint servers (such as arXiv, bioRxiv, and now medRxiv) to disseminate their work quickly, invite feedback, or facilitate open (free) access. Their growing importance is shown by the fact that NIH has invited the citation of “interim research products,” including preprints, in grant applications and progress reports. At the 2019 Medical Library Association meeting, CWML librarians presented a paper to inform medical librarians about the benefits and risks of preprints and their importance to library users who may produce or consume preprints in today’s scholarly communication ecosystem. Ginger Gamble of the Yale University Open Data Access Project, a sponsor of medRxiv, collaborated on this paper.

Susan Wheeler, Curator of Prints and Drawings and Historical Medical Posters, continued offering primary source viewing sessions in the Historical Library stacks. Andreas Vesalius’s monumental text *De humani corporis fabrica* (1543), the origin of the modern medical textbook and one of the most beautiful books of the Renaissance, was examined together with earlier and later anatomical works. In the print room, students examined the work of activist/artist Sue Coe, including her sketchbook “HIV Women in Prison” (2006). Susan’s popular sessions provide a firsthand experience with the treasures of the library’s historical collections.

“Exploring the Closed Stacks.” Program for Humanities in Medicine, Yale University. 2018. New Haven, Conn.

“Patients.” Sherwin B. Nuland Summer Institute in Bioethics, Yale University. 2018. New Haven, Conn.

Newman S. “Unraveling sweater myths with data.” Yale University Library’s Standing Committee on Professional Awareness Forum. New Haven, Conn.

Spak JM, Adams N, Brennan E, Collins H, Kovar-Gough I, Lorbeer E, Nicholson J, Ogawa R, Thormodson K, and von Isenburg M. “Enabling self-directed life-long learning through EPA 7: the educator’s role.” Poster presentation. Association of Academic Medical Colleges Annual Meeting. Austin, Tex.

Stryker J and Wheeler S. “Bioethics and media.” Sherwin B. Nuland Summer Institute in Bioethics, Yale University. New Haven, Conn.

Van Schalkwyk SC, Hafler J, Brewer TE, Maley MA, Margolis C, McNamee L, Meyer I, Peluso MJ, Schmutz AM, Spak JM, Davies D, and Bellagio Global Health Education Initiative. “Trans-formative learning as pedagogy for the health professions: a scoping review.” Paper presentation. 11th Annual Conference on the Scholarship of Teaching and Learning. Stellenbosch, South Africa.

Additional Presentations, 2019

Barnett L. “License review team @ Yale University Library.” Yale University Library’s Standing Committee on Professional Awareness Forum. New Haven, Conn.

Canaan A, Kerr S, Yang W, Zhang Y, Arjona C, Yang MQ, Garcia-Milian R, and Weissman SM. “Single cell analysis reveals the impact of the inflammatory FAT10 gene on innate immunity response of splenocytes, in vivo.” 48th Annual Meeting of the American Aging Association (AGE). San Francisco, Calif.

Corcoran KL, Brackett A, Steffens C, Gunderson C, Bastian LA, and Lisi AJ. “Is the use of chiropractic care associated with the receipt of opioid prescriptions? A systematic review and meta-analysis.” Poster presentation. American Academy of Pain Medicine (Denver, Colo.); Association of Chiropractic Colleges Research Agenda Conference (Baltimore, Md.).

Erdmann C, Nyhan K, and Goldman J. “Introduction to library carpentry.” Webinar. National Network of Libraries of Medicine Data Management Webinar Series.

Grafe M. “Goat’s milk spider silk (or questions that stop a librarian in her tracks).” Panel presentation. Yale University Library’s Standing Committee on Professional Awareness Forum. New Haven, Conn.

Grimshaw A, Barnett L, and Norton MJ. “Are resource-sharing statistics a reliable metric to determine the impact of journal cancellation.” OCLC Resource Sharing Conference. Jacksonville, Fla.

Grossetta Nardini H. “Library 2.0: how new library services and resources can save you time.” Yale Department of Ophthalmology and Visual Science Grand Rounds. New Haven, Conn.

Jordan G, Grazioplene R, Florence A, Funaro M, Davidson L, and Bellamy C. “Generativity within the context of peer support for mental health challenges.” Paper presentation. 2nd Annual Yale Postdoc Symposium. New Haven, Conn.

Prakash J, Charkoftaki G, Garcia-Milian R, Lam T, Lu L, Thompson DC, and Vasiliou V. “Transcriptomic and proteomic analyses in ALDH1A1-deficient human colon cancer cells reveals dysregulation of cholesterol biosynthesis and DNA damage repair mechanisms.” 19th International Workshop on the Enzymology and Molecular Biology of Carbonyl Metabolism. Denver, Colo.

Schulman-Green D, Feder SL, Dionne-Odom JN, Shelli L, Batten J, En Long VJ, Harris Y, Wilpers A, Wong T, and Whittemore R. “Factors affecting family caregiver support of patient self-management of advanced, life-limiting illness.” Eastern Nursing Research Society Conference (Providence, R.I.); Annual Assembly of Hospice and Palliative Care/Hospice and Palliative Care Nurses Association Conference (Boston, Mass.); Palliative Care Research Cooperative Investigator Meeting (Denver, Colo.).

Wang Y, Charkoftaki G, Garcia-Milian R, Lam T, Thompson DC, and Vasiliou V. “Proteomic profiling of COLO320 cells reveals the potential regulatory role of ALDH in cell proliferation and energy metabolism.” 19th International Workshop on the Enzymology and Molecular Biology of Carbonyl Metabolism. Denver, Colo.

BOOK ACKNOWLEDGMENTS

Melanie Norton in *Execrated – Expatriated – Eradicated: the lives and works of German neurosurgeons persecuted after 1933*, by Ulrike Eisenberg, Hartmut Collmann, and Daniel Dubinski.

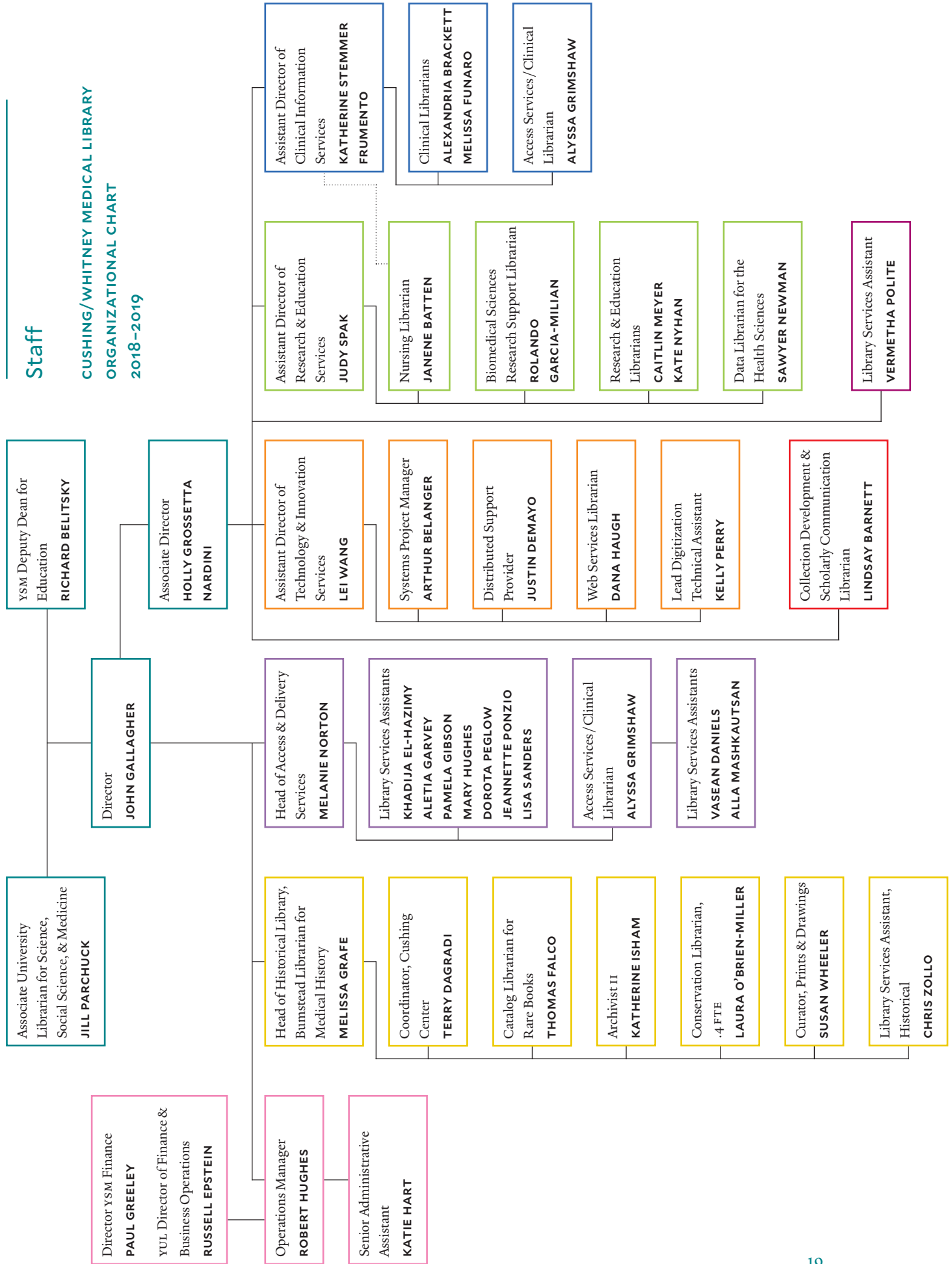
Vermetha Polite in *Emotionally disturbed: a history of caring for America’s troubled children*, by Dr. Deborah Doroshow.

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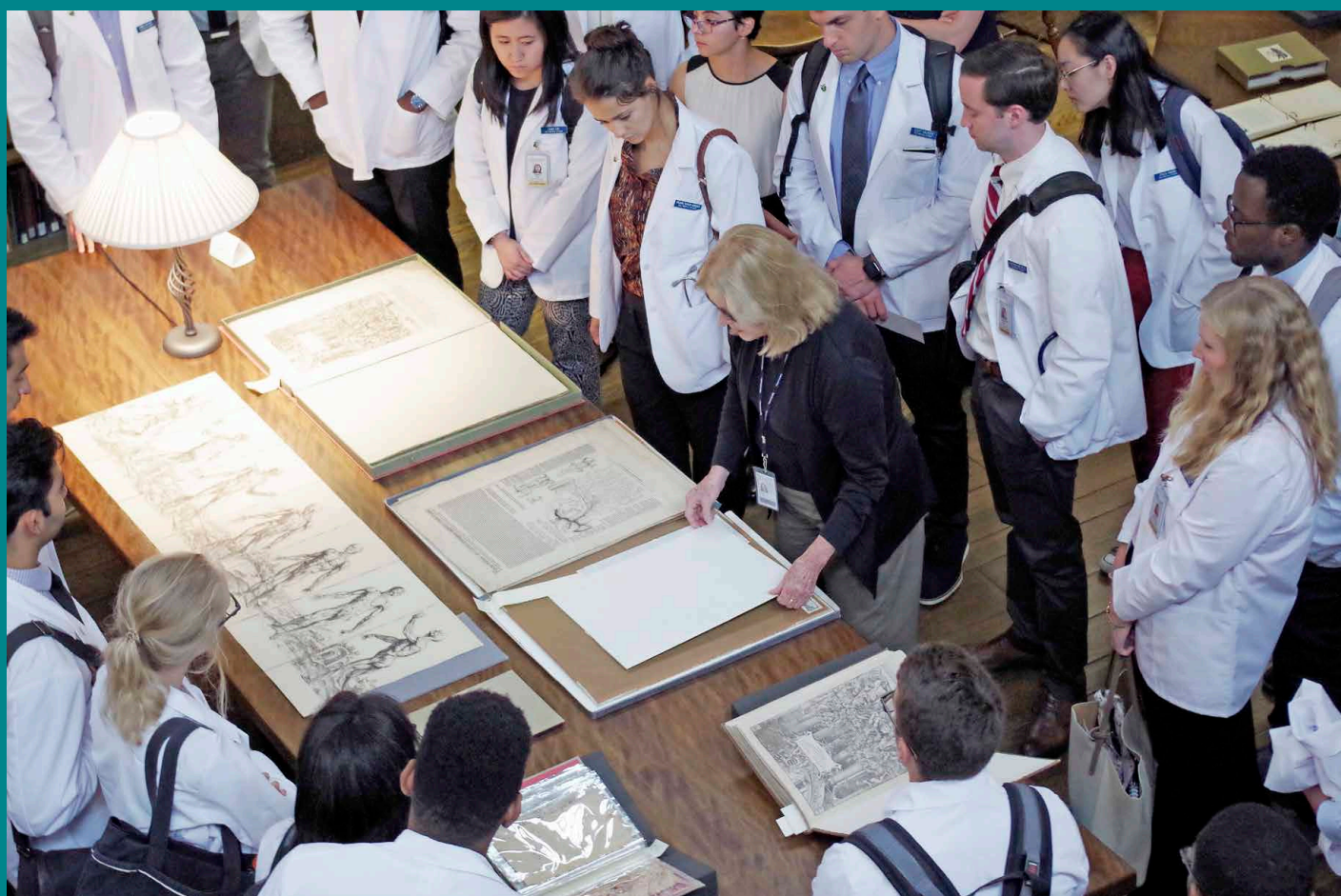
ORGANIZATIONAL CHART

2018-2019



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Susan Wheeler showcases items
from the Historical Library special
collections

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