



University of Pittsburgh



Health Sciences Library System

# Introduction to the Health Sciences Library System

**Renae Barger**

Associate Director for Research, Instruction and Clinical  
Information Services

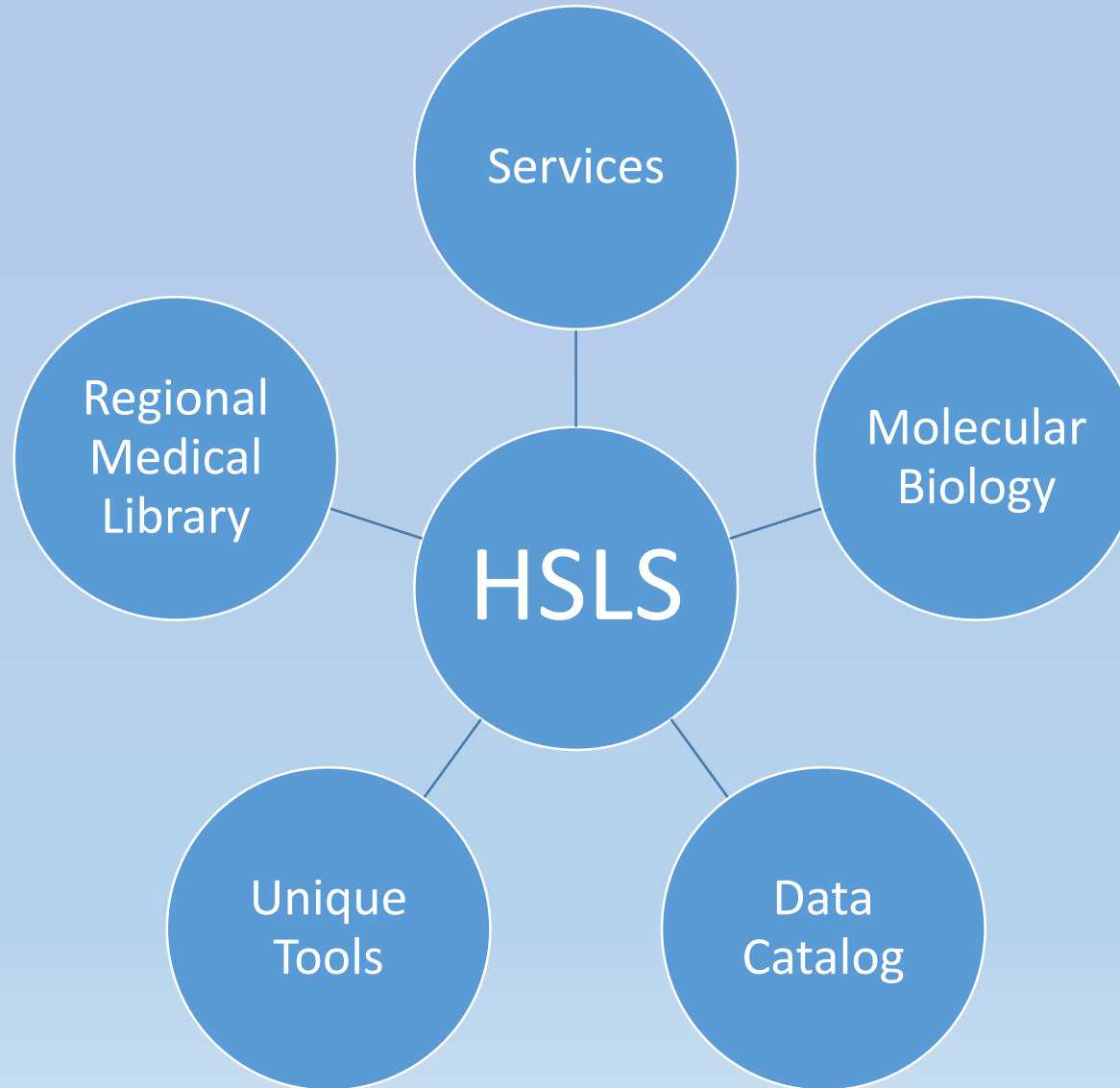


# Support for the Health Sciences

- Dental Medicine
- Medicine
- Nursing
- Pharmacy
- Public Health
- Health and Rehabilitation
- UPMC (resources/residents & fellows)



# Agenda



# Research and Instruction Services



# Liaisons

- Curriculum committees
- Course-integrated instruction
- Specialized instruction
  - Data management
  - Scholarly Publishing
- Student orientations
- Research and search assistance
- Advanced searching
  - Co-investigators on systematic review publications and grant-funded projects
- Secondary faculty appointments
  - Dental Medicine
  - Nursing
  - Public Health
  - CTSI (Medicine)



Dental Medicine  
Dental Hygiene  
Rebecca Abromitis  
[baa@pitt.edu](mailto:baa@pitt.edu)



Medicine  
Health and Rehabilitation  
Rose Turner  
[rlt@pitt.edu](mailto:rlt@pitt.edu)



Nursing  
Mary Lou Klem  
[klem@pitt.edu](mailto:klem@pitt.edu)



Public Health  
Barbara Folb  
[folb@pitt.edu](mailto:folb@pitt.edu)



Public Health  
IACUC  
Patricia Weiss  
[pwf@pitt.edu](mailto:pwf@pitt.edu)



Data  
IACUC  
Melissa Ratajeski  
[mar@pitt.edu](mailto:mar@pitt.edu)



Pharmacy  
Psychiatry  
Michele Klein Fedyshin  
[kleinf@pitt.edu](mailto:kleinf@pitt.edu)



Scholarly Publication  
Andrea Ketchum  
[ketchum@pitt.edu](mailto:ketchum@pitt.edu)



Basic Sciences - MolBio  
Carrie Iwema  
[iwema@pitt.edu](mailto:iwema@pitt.edu)

# HSLs FlashClasses

- [http://www.hslls.pitt.edu/flashclass/descriptions\\_main](http://www.hslls.pitt.edu/flashclass/descriptions_main)
- Open to entire Pitt community and UPMC residents/fellows

## **Literature Searching**

---

[Painless PubMed](#)

[Trim Your Search: Focusing PubMed](#)

[Best Behavior: Searching Behavioral Health Resources](#)

## **Data Management**

---

[Crafting a Data Management Plan](#)

[Data Visualization for Beginners](#)

[Electronic Lab Notebooks: Intro to LabArchives](#)

[Future Proof your Data: Planning for Reuse](#)

[Locating and Citing Research Data](#)

[You Do WHAT with Your Data?](#)

## **Instructional and Visual Design**

---

[Free Images and More and How to Cite Them](#)

[Infographics: Sharing Information Visually](#)

[PechaKucha Basics for Presentations](#)

[Presentation Zen: Effective Visuals and Design](#)

[Advanced PowerPoint for Presentations](#)

[PowerPoint for Conference Posters](#)

## **Author's Toolkit**

---

[Copyright and Fair Use in Education](#)

[Journal Matchmakers: Deciding Where to Publish](#)

[ORCID Author IDs: Boost Your Discoverability](#)

[Showcasing Your Research Impact](#)

## **Citation Management**

---

[EndNote Basics](#)

[Mendeley Basics](#)

[Advanced EndNote: Savvier Management](#)

## **Special Topics**

---

[Getting Systematic About Systematic Reviews](#)

[Box Basics](#)

[Create it Yourself With 3D Printing](#)

[Searching for Dollars: Grant Seeking for Funds](#)

# Advanced Searching Services

- What is a systematic review?
  - *A scientific investigation that focuses on a specific question and uses explicit, planned scientific methods to identify, select, assess, and summarize the findings of similar but separate studies...\**

JAMA | Original Investigation

## Association Between Palliative Care and Patient and Caregiver Outcomes A Systematic Review and Meta-analysis

Dio Kavalieratos, PhD; Jennifer Corbelli, MD, MS; Di Zhang, BS; J. Nicholas Dionne-Odem, PhD, RN; Natalie C. Ernecoff, MPH; Janel Hanmer, MD, PhD; Zachariah P. Hoydich, BS; Dara Z. Ikejiani, MD; Michele Klein-Fedyshin, MSLS, BSN, RN, BA; Camilla Zimmermann, MD, PhD; Sally C. Morton, PhD; Robert M. Arnold, MD; Lucas Heller, MD; Yaer Schenker, MD, MAS


### Quality of Life Research

July 2016, Volume 25, Issue 7, pp 1625–1634

Measuring nonspecific factors in treatment: item banks that assess the healthcare experience and attitudes from the patient's perspective

#### Authors

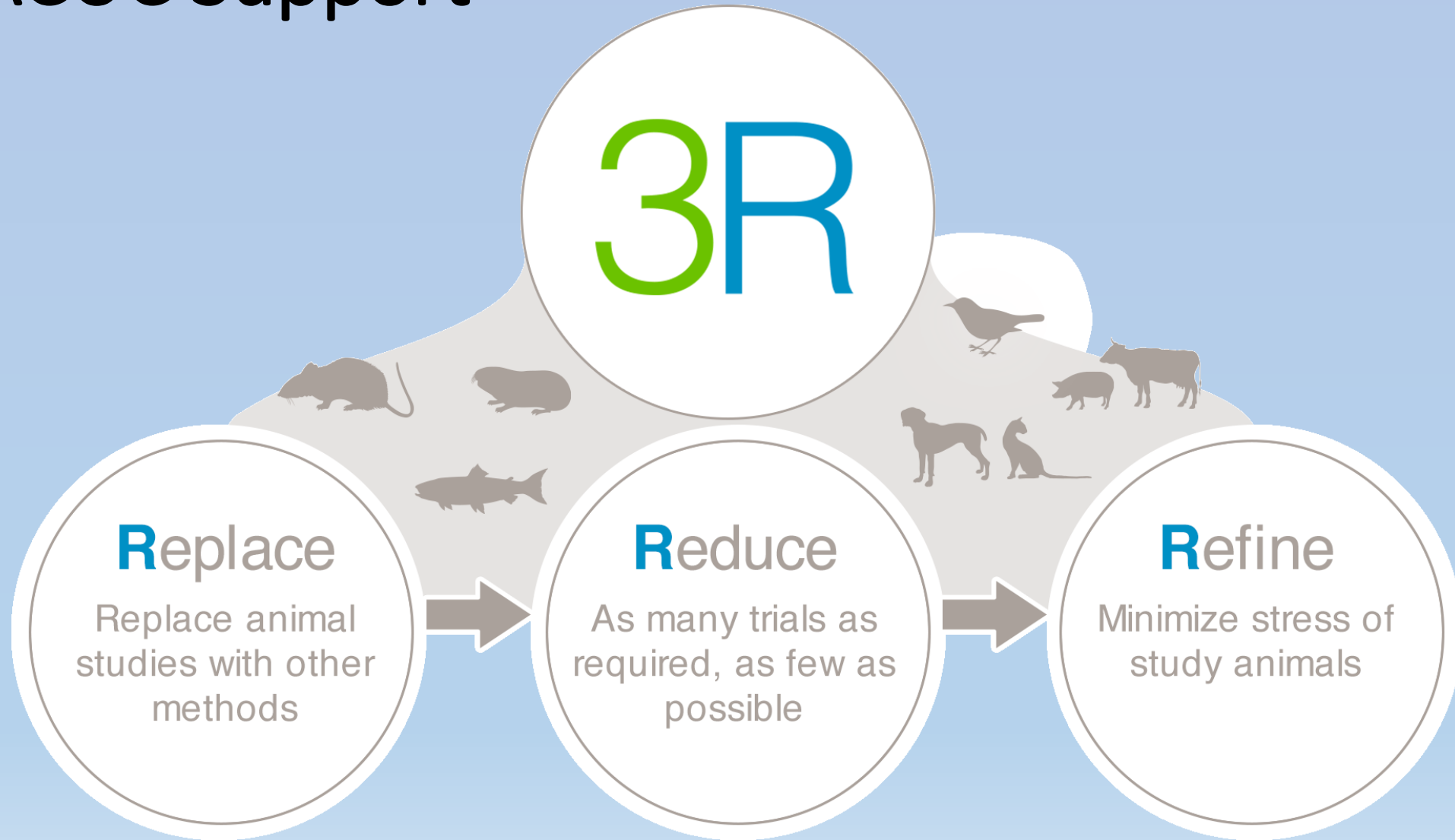
#### Authors and affiliations

Carol M. Greco , Lan Yu, Kelly L. Johnston, Nathan E. Dodds, Natalia E. Morone, Ronald M. Glick, Michael J. Schneider, Mary Lou Klem, Christine E. McFarland, Suzanne Lawrence, Jason Colditz, Catherine C. Maihoefer, Wayne B. Jonas, Neal D. Ryan, Paul A. Pilkonis

- Last year:
  - 43 projects at some stage
  - Co-authorship on 12 publications
    - First time authorship in JAMA

\*Taken from 2008 report: *Knowing What Works in Health Care: A Roadmap for the Nation*, the Institute of Medicine (IOM)

# IACUC Support





# History of Medicine

- Over 10,000 rare books and special collections supporting research in historical aspects of health professions

## History of Medicine: Featured Book

## Myographia nova

**Browne, John, 1642-approximately 1700**

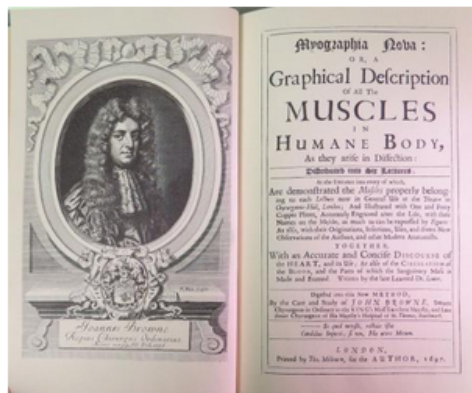
**Myographia nova, or, A description of all the muscles in humane body, as they arise in dissection.**

New York : Editions Medicina Rara, 1971?

Falk Library Call Number: q QM21 B882 (1697) 1971

*Myographia nova* written by the surgeon of the king Charles II, John Browne originally appeared in 1681 under the title *A Complete Treatise of the Muscles*. It was a very popular book though its originality was questioned. It plagiarized William Molins' *Myskotomia* and copied plates from *Tabulae anatomicae* by Guilio Casseri. After Browne met with criticism, he changed slightly the text and published it in 1697 as *Myographia nova*. (More information available from the entry at [The Hagströmer Medico-Historical Library](#)).

Setting aside the original or "borrowed" question, Browne's work has fantastic illustrations which show well in this limited edition facsimile.



# HSLS Data Catalog

# What is a Data Catalog?

- A ***discovery tool*** to highlight and aggregate data created at the University; whether the data is:
  - openly available from a repository such as Zenodo
  - available with restrictions for download on a laboratory web site
  - only available on a lab server
- Each dataset is curated and described in detail with rich metadata to increase findability and usefulness by researchers
- The catalog may or may not provide direct access to the data it describes
- Different than d-scholarship

# Benefits of a Data Catalog

- ***Low-barrier*** way for researchers to share information about their data
- Fewer obstacles/barriers in comparison to depositing data in a repository
- Increase the local and global visibility of research data generated at Pitt
- Facilitate collaboration across university departments and institutes and with researchers outside of Pitt
- Record of institutional/departmental activity



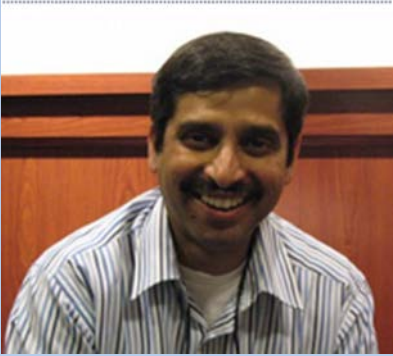
# National Partnership w/ Academic Health Sciences Libraries

- Code developed by New York University (NYU) Health Sciences Library
- HSLS received a small amount of start-up funding from the National Library of Medicine (NLM)
- Participating research institutions: NYU, Pitt, Univ of Maryland, and in discussions w/ others
- NLM's strategic plan to make data findable and accessible

Quote from NYU project team:

“work with other institutions so that they too can create catalogs for datasets relevant to their researchers. If others implement the Data Catalog’s code, it would facilitate the creation of a cross-institutional data catalog that would enable greater data discovery through federated searching” <sup>1</sup>

<sup>1</sup> <http://blogs.loc.gov/thesignal/2017/02/spotlighting-research-data-building-relationships-with-outreach-for-the-nyu-data-catalog/>



Ansuman Chattopadhyay, PhD  
[ansuman@pitt.edu](mailto:ansuman@pitt.edu)



Carrie Iwema, PhD  
[iwema@pitt.edu](mailto:iwema@pitt.edu)



Sri Chaparala  
[srichaparala@pitt.edu](mailto:srichaparala@pitt.edu)

# MolBio Information Service

# Bioinformatics Service @ Health Sciences Libraries

**1994 :** University of Washington



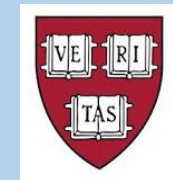
**2002:** University of Pittsburgh



**2006 ...**

University of Florida, Gainesville  
Washington University, St. Louis  
Northwestern University, Chicago  
University of Southern California, LA  
University of California, San Francisco  
Harvard University  
University of Rochester

.....



# MolBio Information Service



Software Licensing



Bioinformatics Training Workshops

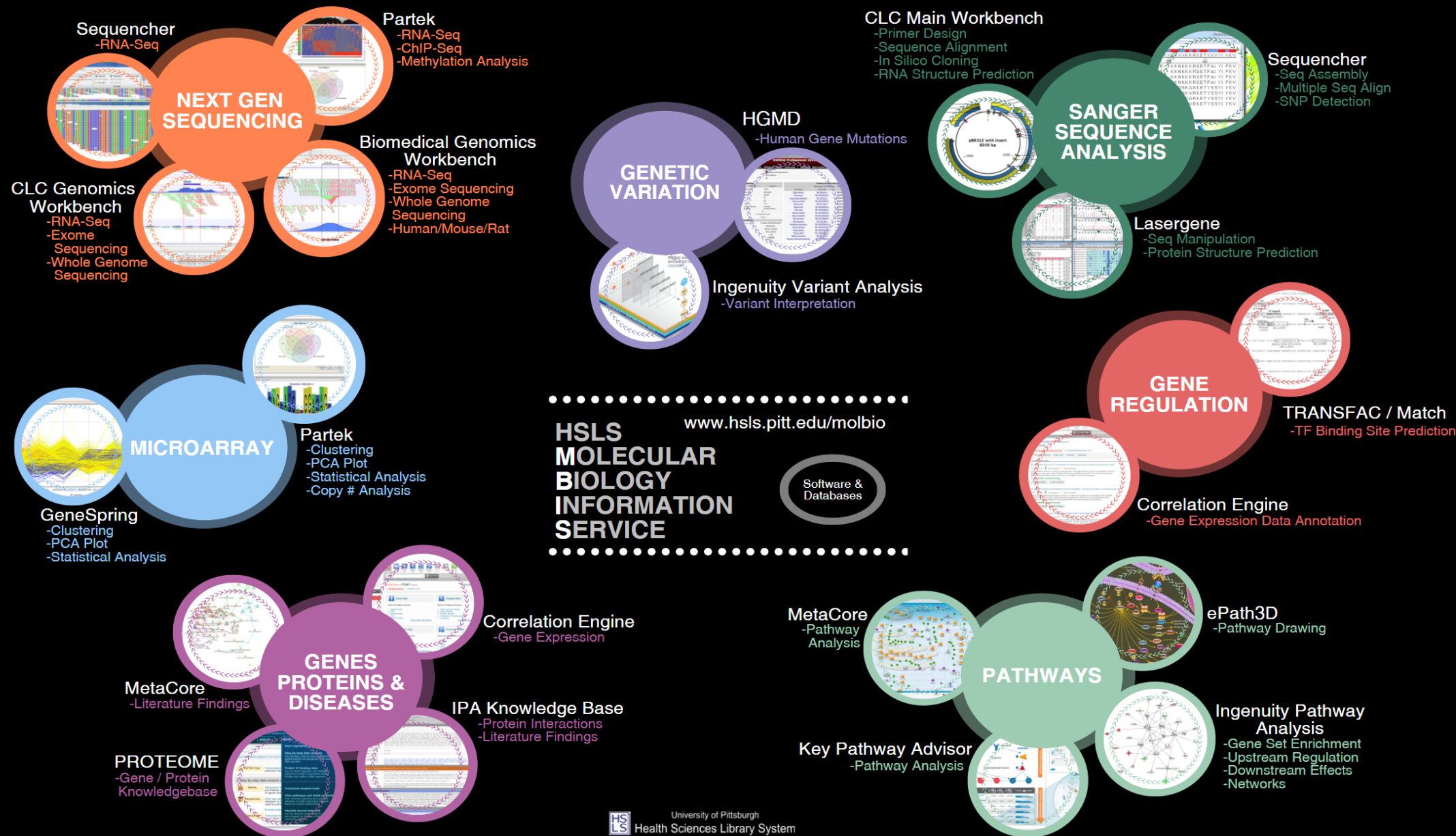


Consultations



Web Tools







Health Sciences Library System

to REGISTER &  
see descriptions:  
[http://www.hsls.pitt.edu/  
calendar](http://www.hsls.pitt.edu/calendar)

## Fall 2017 MolBio Info Service Training Workshops

Wednesdays  
1 – 4 pm  
Falk Library  
Classroom 2

Cancer Transcriptome Sequence  
(RNA-Seq) Analysis:  
CLC Genomics Workbench

September 6<sup>th</sup>  
November 1<sup>st</sup>

RNA-Seq Analysis:  
CLC Genomics Workbench

October 11<sup>th</sup>  
December 6<sup>th</sup>

Literature Mining:  
InfoBoosters, Molecular Databases,  
& F1000Workspace

September 13<sup>th</sup>

Genome Navigation:  
UCSC Genome Browser

September 20<sup>th</sup>

Pathway Visualization:  
ePath3D, ChemDraw, & Cytoscape

October 18<sup>th</sup>

Variant Detection & Analysis:  
CLC Genomics, Ingenuity  
Variant Analysis, & more

October 4<sup>th</sup>

Pathway Analysis:  
NIH DAVID, IPA, KPA, & more

November 29<sup>th</sup>

Gene Regulation:  
TRANSFAC, ENCODE, & more

November 8<sup>th</sup>

Chromatin Profile  
(ChIP-Seq/ATAC-Seq) Analysis:  
CLC Genomics Workbench

November 15<sup>th</sup>

Introduction to Unix for Running  
Command Line Bioinformatics Tools

December 13<sup>th</sup>



University of Pittsburgh



HSLs MolBio



## "How To" Talks by Post Docs



Pitt Health Sciences Library System • 13 videos • 186 views • Last updated on Apr 7, 2017

“How-To’ Talks by Postdocs” are a collaboration between the HSLS Molecular Biology Information Service (MBIS), the Center for Postdoctoral Affairs in the Health Sciences, and any postdoc at the University of Pittsburgh conducting biomedical resea... more

[▶ Play all](#)
[↻ Share](#)
[+ Save](#)

1



**Using Mass Spec to Explore Small Molecules by Dr. Bushra Amin**

by Pitt Health Sciences Library System

55:45

2

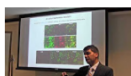


**How To Create a Quality Scientific Poster by Dr. Itziar Pinilla Macua**

by Pitt Health Sciences Library System

41:22

3



**How to Assess Preclinical Stroke Models by Mohammad Iqbal H Bhuiyan, PhD**

by Pitt Health Sciences Library System

37:05

4



**A Molecular Cloning Primer by Dr. Caitlyn Barrett**

by Pitt Health Sciences Library System

47:54

5



**How to Edit a Genome Using CRISPR/Cas9 by Dr. Swapna Desai**

by Pitt Health Sciences Library System

45:56

6



**How to Purify Recombinant Proteins by Dr. Prerna Grover**

by Pitt Health Sciences Library System

44:18

# Unique Tools



# Unique Tools for Discovery developed by HSLS

- Federated search tool examples:
  - E-Book Full Text: keyword search of 1,000+ electronic books
  - search.bioPreprint: search preprint databases
  - search.DataJournals: searches full-text of open access data journals

The screenshot displays the search.HSLS interface. At the top, the header 'search.HSLS' is visible. Below it, there are tabs for 'Pitt Resources' and 'E-Book Full Text'. The 'E-Book Full Text' tab is active, showing a search bar with the text 'heart valve' and a 'Search' button. Below the search bar, there is a link to 'Browse the Health Sciences E-Books list'. The main content area shows search results for 'heart valve'. On the left, there is a sidebar with 'Narrow your search:' and a list of topics with counts: Vascular (18), Prosthetic (14), Heart Disease (11), Aortic (10), Heart Failure (6), Echocardiography, Transducer (5), Thorax (5), Heart valve NEC 746.89 (3), Atlas, Pocket (3), and Health (3). On the right, there is a list of results with titles, authors, and sources. The results are:

- Accessory**  
... ¶ Accessory, chromosome(s) NEC, sex 758.81 ¶ Accessory, coronary artery 746.85 ¶ Accessory, coronary artery 746.85  
**Book:** ICD-9-CM - VOLUMES 1, 2 & 3 (2015)
- Pocket Atlas of Echocardiography**  
In diagnostic cardiology, the usefulness and effectiveness of state-of-the-art echocardiography is  
**Source:** Thieme E-Book Library
- Heart Valve Disease**  
**Authors:** J.D. Hutcheson, E. Aikawa  
**Ref:** Reference Module in Biomedical Sciences, from Pathobiology of Human Disease, 2014, F
- Heart Valves and Heart Sounds; Valvular and Congenital Heart Defects**  
Amplitude of different-frequency vibrations in the **heart** sounds and **heart** murmurs in relation to the  
**Book:** Guyton and Hall Textbook of Medical Physiology, Thirteenth Edition  
**Authors:** Hall, John E., PhD

[Pitt Resources](#)[E-Book Full Text](#)[bioPreprint](#)[Alternatives: Search PittCat directly](#)

#### NEWS & ANNOUNCEMENTS

##### [This month at HSL](#)

Classes for August include Painless PubMed, FlashClasses, Molecular Biology Workshops...

##### [HSL Update Newsletter for August](#)

The August issue of the HSL Update newsletter is now available. [Subscribe here.](#)

##### [New Website Coming Soon](#)

A new website is coming soon!

[ALL NEWS & ANNOUNCEMENTS](#)

#### HSL CLASSES AND EVENTS

Wed 8/30/2017 10:00am– [Free Images and More and How to Cite Them](#)

Thu 8/31/2017 9:30am– [You Do WHAT with Your Data?](#)

[ALL UPCOMING CLASSES & EVENTS](#)

#### SERVICES

[Instruction](#)[Consultation](#)[Liaisons](#)[MolBio Information Service](#)[Research Support](#)[Advanced Literature Searching](#)[Data Services](#)[IACUC](#)[History of Medicine](#)[Technology](#)[Course Reserves](#)[Borrowing HSL Materials](#)[ALL SERVICES](#)

#### RESOURCES

[PubMed](#)[E-journals A-Z](#)[Databases A-Z](#)[MolBio Software](#)[E-book by Subject](#)[Exam Review](#)[Up To Date](#)[Micromedex](#)[Ovid](#)[Mobile Apps](#)[EMB Resource Pyramid](#)[Citation Management](#)[PittCatt for the Health Sciences](#)[ALL RESOURCES](#)

#### FEATURED

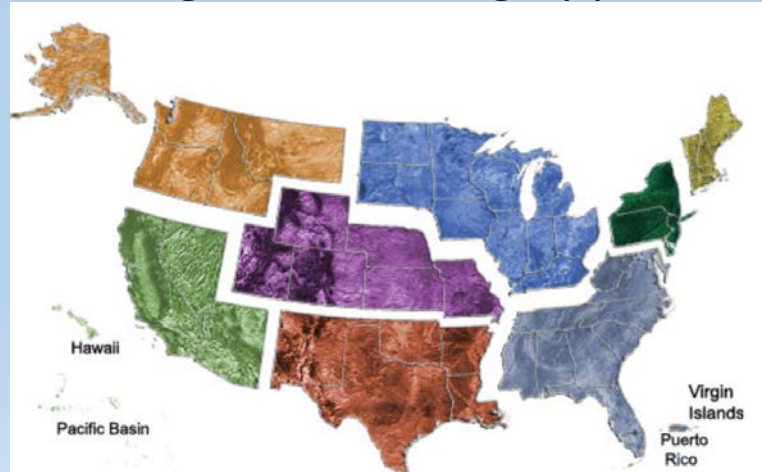
- [HSL Update](#)
- [Finding Funding](#)
- [Locating Images](#)
- [Scholarly Publication](#)
- [Subject Guides and Portals](#)
- [Streaming Media](#)
- [Leisure Reading Collection](#)
- [NNLM Regional Medical Library \(MAR\)](#)

# HSLS Web Redesign

# Regional Medical Library

# National Network of Libraries of Medicine (NNLM)

- Funded by the National Library of Medicine through competitive 5-year grant
  - Component of NLM's outreach program to reduce/eliminate health disparities
  - Promote access to and use of health information by health professionals and the public
- Coordinated through 8 Regional Medical Libraries (RML)
  - University of Pittsburgh: RML for the Middle Atlantic Region (DE, NY, NJ, PA)
- Supports collaboration, training, and funding opportunities for health information outreach





# Examples of NNLM National Initiatives


- Public Libraries
- *All of Us*
- Substance Misuse
- Research Data Management

# Clinical eCompanion

- Uses the same technology behind HSLS' federated search tools to point primary care physicians to freely available and evidence-based information (clinical and patient education)

**Clinical eCompanion**  
Information for primary care

Find Information from Free Medical Resources





Health Sciences Library System

