# NLM TECHNICAL BULLETIN

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U.S. NATIONAL LIBRARY OF MEDICINE | NATIONAL INSTITUTES OF HEALTH

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**2013 MARCH–APRIL No. 391**
**Issue Completed April 29, 2013**

**Last updated:** 05 May 2014

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U.S. NATIONAL LIBRARY OF MEDICINE I NATIONAL INSTITUTES OF HEALTH

## TOXMAP and TOXNET Now Include 2011 EPA Toxics Release Inventory

**2013 April 24** [posted]

TOXNET TRI and TOXMAP now include the 2011 Toxics Release Inventory data, the most current U.S. Environmental Protection Agency (EPA) data available.

The Toxics Release Inventory (TRI), a resource of the EPA, is a set of publicly available databases containing information on releases of specific toxic chemicals and their management as waste, as reported annually by U.S. industrial and federal facilities. This inventory was established under the Emergency Planning and Community Right to Know Act of 1986 (EPCRA). TRI data, beginning with the 1987 reporting year, covers air, water, land, and underground injection releases, as well as transfers to waste sites. In agreement with the Pollution Prevention Act of 1990, source reduction and recycling data is also included in TRI.

In 2011, 20,927 facilities reported to the EPA TRI program with almost 80,000 submissions. A complete list of TRI chemicals required to be reported to the EPA can be found at http://www.epa.gov/tri/trichemicals/index.htm.

TOXMAP maps the TRI chemicals reported to the EPA as required by EPCRA. TOXMAP covers on-site TRI releases only and also includes EPA Superfund data.

The Toxicology and Environmental Health Information Program (TEHIP) in the Division of Specialized Information Services (SIS) of the National Library of Medicine provides access to TRI as part of its TOXNET (TOXicology Data NETwork) databases, which cover toxicology, hazardous chemicals, environmental health and related areas.

**Last updated:** 24 April 2013

# New UTS API Methods

New UTS API Methods. NLM Tech Bull. 2013 Mar-Apr;(391):b8.

**2013 April 09** [posted]

The UMLS Terminology Services (UTS) API has two new methods:

- getCurrentUMLSVersion() — get current version of the UMLS
- getAllUMLSVersions() — see all available versions of the UMLS

To learn more about the UTS API, see: https://uts.nlm.nih.gov/home.html#apidocumentation.

**Last updated:** 09 April 2013

# UMLS Solaris Support Discontinued

UMLS Solaris Support Discontinued. NLM Tech Bull. 2013 Mar-Apr;(391):b7.

**2013 April 09** [posted]

NLM will discontinue support for the UMLS on Solaris® operating systems with the 2013AA Release in May 2013. The Solaris Java™ Runtime Environment will no longer be included in the UMLS files. Solaris users are encouraged to switch to a supported operating system:

- Windows® 7 Enterprise, Vista® XP, 2000, NT
- Linux®, all releases are fully tested under Red Hat® Workstation Linux; other Linux releases may work equally well
- Macintosh® OS X (Leopard, Snow Leopard)

**Last updated:** 09 April 2013

# MetamorphoSys Upgrade to JRE 7

MetamorphoSys Upgrade to JRE 7. NLM Tech Bull. 2013 Mar-Apr;(391):b6.

**2013 April 09** [posted]

NLM will upgrade MetamorphoSys to Java™ Runtime Environment (JRE™) 7 with the UMLS 2013AA Release in May 2013. Users will need to install JRE 7 on their machines to run this application.

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## UMLS DVD Production Ceases

UMLS DVD Production Ceases. NLM Tech Bull. 2013 Mar-Apr;(391):b5.

**2013 April 09** [posted]

NLM no longer produces a UMLS DVD. Beginning with the 2013AA Release in May 2013, licensees must download the UMLS files from the UMLS Terminology Services (UTS).

**Last updated:** 09 April 2013

UMLS DVD Production Ceases. NLM Technical Bulletin. 2013 Mar–Apr

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# RDA Implementation at NLM

**2013 April 08** [posted]

On March 31, 2013 the National Library of Medicine (NLM) began use of *RDA: Resource Description and Access* for all original cataloging of modern material, replacing the *Anglo-American Cataloguing Rules, 2nd edition* (AACR2).

Bibliographic records distributed by NLM will continue to contain a mix of RDA and AACR2 records as NLM will accept AACR2 copy without upgrading these records to RDA. Any new authority records created by NLM will follow RDA guidelines, regardless of the rules used to create the bibliographic data.

For more information please visit the RDA section on the NLM Cataloging homepage.

**Last updated:** 08 April 2013

# NLM WISER for iOS 3.1 Released

NLM WISER for iOS 3.1 Released. NLM Tech Bull. 2013 Mar-Apr;(391):b3.

**2013 March 25** [posted]

The National Library of Medicine WISER for iOS 3.1, a universal app for Apple iOS devices, is now available. Here's a look at what's new in this release.

WISER now fully integrates content from the Chemical Hazards Emergency Medical Management (CHEMM) Web site. This integration includes:

- New hospital provider and preparedness planner profiles
- Acute care guidelines for six known mass casualty agents/agent classes
- The addition of a wealth of CHEMM reference material
- The new CHEMM Intelligent Syndrome Tool (CHEMM-IST), a help identify tool designed to diagnose the type of chemical exposure after a mass casualty incident

Emergency Response Guidebook data is now updated to the ERG 2012; WISER for the iPhone includes a custom ERG 2012 tool

WISER for iOS 3.1 can be downloaded and installed directly from the Apple App Store.

**Coming Soon**

Look for these exciting additions in the coming months:

- WISER for Android 1.1, which includes the same CHEMM integration and ERG 2012 updates detailed above
- Updates to our Windows and WebWISER platforms to include CHEMM integration, ERG 2012 data, and more
- WISER for Android 3.1, which adds Help Identify Chemical and protective distance mapping to this popular platform

WISER is a system designed to assist first responders in hazardous material incidents. WISER provides a wide range of information on hazardous substances, including substance identification support, physical characteristics, human health information, and containment and suppression advice.

# Updated SNOMED CT to ICD-10 Cross Map Available

Updated SNOMED CT to ICD-10 Cross Map Available. NLM Tech Bull. 2013 Mar-Apr;(391):b2.

**2013 March 15** [posted]

The February 2013 version of the SNOMED CT to ICD-10 Cross Maps is available for download. The content maps the July 2012 SNOMED CT International Release to ICD-10, fourth edition (2010). The download contains files in Release Format 2 (RF2).

# SNOMED CT: New US Edition and Final US Extension Available

SNOMED CT: New US Edition and Final US Extension Available. NLM Tech Bull. 2013 Mar-Apr;(391):b1.

**2013 March 11** [posted]

**US Edition of SNOMED CT®**
The release of the US Edition of SNOMED CT is now available. The US Edition combines the International Release of SNOMED CT and US-specific content previously found in the US Extension to SNOMED CT. It eliminates the need for users to combine the two products. The US Edition is the official source of SNOMED CT for use in US healthcare systems.

The download contains files in both Release Format 1 (RF1) and Release Format 2 (RF2) versions. NLM will provide an updated US Edition approximately one month after each International Release update.

**US Extension to SNOMED CT Final Release**
NLM will no longer provide a separate US Extension to SNOMED CT file. The final release of the US Extension is available for download from the same page as the US Edition.

**Last updated:** 11 March 2013

# Genetics Home Reference Celebrates Its 10th Anniversary

**2013 April 24** [posted]

**A Consumer Health Information Resource about Human Genetics**

The U.S. National Library of Medicine (NLM) launched the Genetics Home Reference (GHR) Web site on April 25, 2003 as a new consumer health information resource focused on human genetics.

The creation of GHR coincided with the completion of the Human Genome Project, a 13-year international effort to map the entire human genome. With so much rich data emerging from the Human Genome Project, the NLM wanted to create a bridge connecting the technical aspects of genomic research with the public's interest in human genetics and health (see Figure 1).
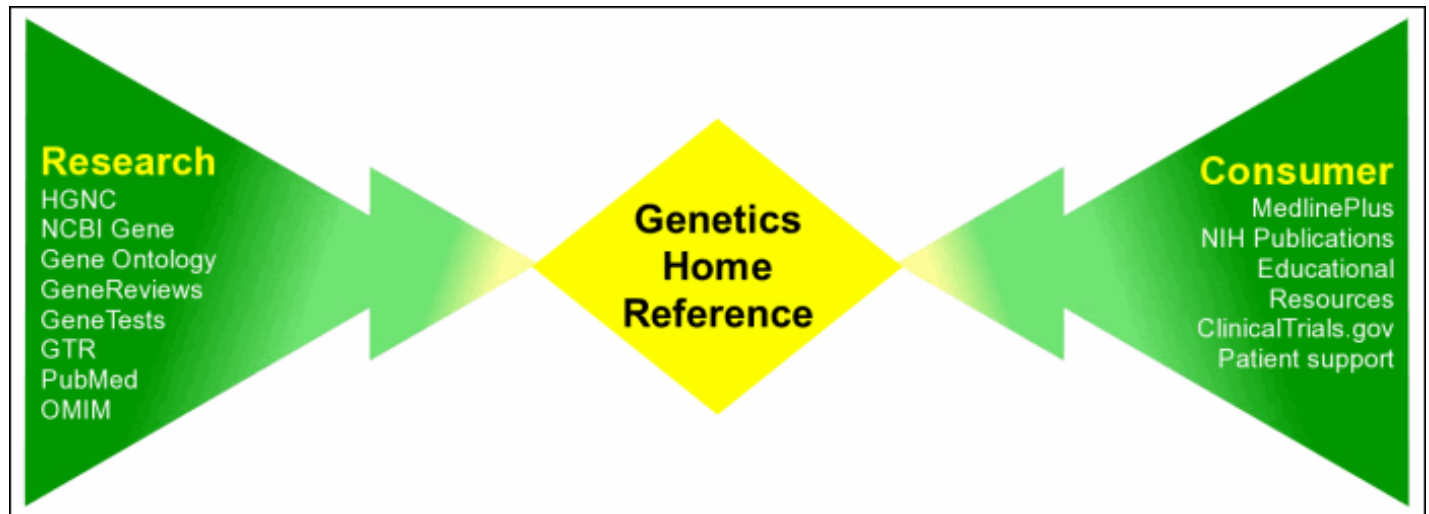


**Figure 1: GHR serves as a bridge between research and consumer resources about human genetics.**

GHR provides consumer-friendly information about genetic conditions and their related genes and chromosomes. This resource was designed for the public, including patients and their families, students, educators, and journalists. It is also used by healthcare professionals. Summaries are written in lay language by Library staff, and each is reviewed by an expert in human genetics before being posted to GHR and again with each substantive update.

**Growth and Development of GHR**

*Expanding Content*

A decade ago, the GHR Web site began with 19 condition summaries and 16 gene descriptions. Since then, the content of the Web site has grown both in volume and in scope.

Among the first additions to the GHR Web site were summaries of conditions caused by chromosomal changes, such as Down syndrome, and information about each human chromosome. Soon after, several dozen conditions detectable through newborn screening were added to the Web site. In 2008, GHR introduced a summary of mitochondrial DNA (mtDNA) and mitochondrial conditions, including Leigh syndrome. A few years later the resource began including more common and complex conditions with a genetic component, such as multiple sclerosis and Crohn disease.

In addition to expanding content related to genetic conditions, GHR has also added new features and background information to help users understand the complexities of human genetics. A multi-chapter primer called the "Help Me Understand Genetics" Handbook (see Figure 2) provides an illustrated introduction to fundamental topics in human

genetics. The Handbook started with basic explanations of mutations, inheritance, genetic testing, and gene therapy, and has grown to include information about complex inheritance, diagnosis and treatment of genetic disorders, and genomic research that has occurred since the completion of the Human Genome Project.

# Genetics Home Reference
*Your Guide to Understanding Genetic Conditions*

A service of the U.S. National Library of Medicine®

Home | Conditions | Genes | Chromosomes | **Handbook** | Glossary | Resources

## What is a chromosome?

In the nucleus of each cell, the DNA molecule is packaged into thread-like structures called chromosomes. Each chromosome is made up of DNA tightly coiled many times around proteins called histones that support its structure.

Chromosomes are not visible in the cell's nucleus—not even under a microscope—when the cell is not dividing. However, the DNA that makes up chromosomes becomes more tightly packed during cell division and is then visible under a microscope. Most of what researchers know about chromosomes was learned by observing chromosomes during cell division.

Each chromosome has a constriction point called the centromere, which divides the chromosome into two sections, or "arms." The short arm of the chromosome is labeled the "p arm." The long arm of the chromosome is labeled the "q arm." The location of the centromere on each chromosome gives the chromosome its characteristic shape, and can be used to help describe the location of specific genes.



DNA double helix

p arm
Centromere
Chromosome
q arm

Histone proteins

DNA

U.S. National Library of Medicine
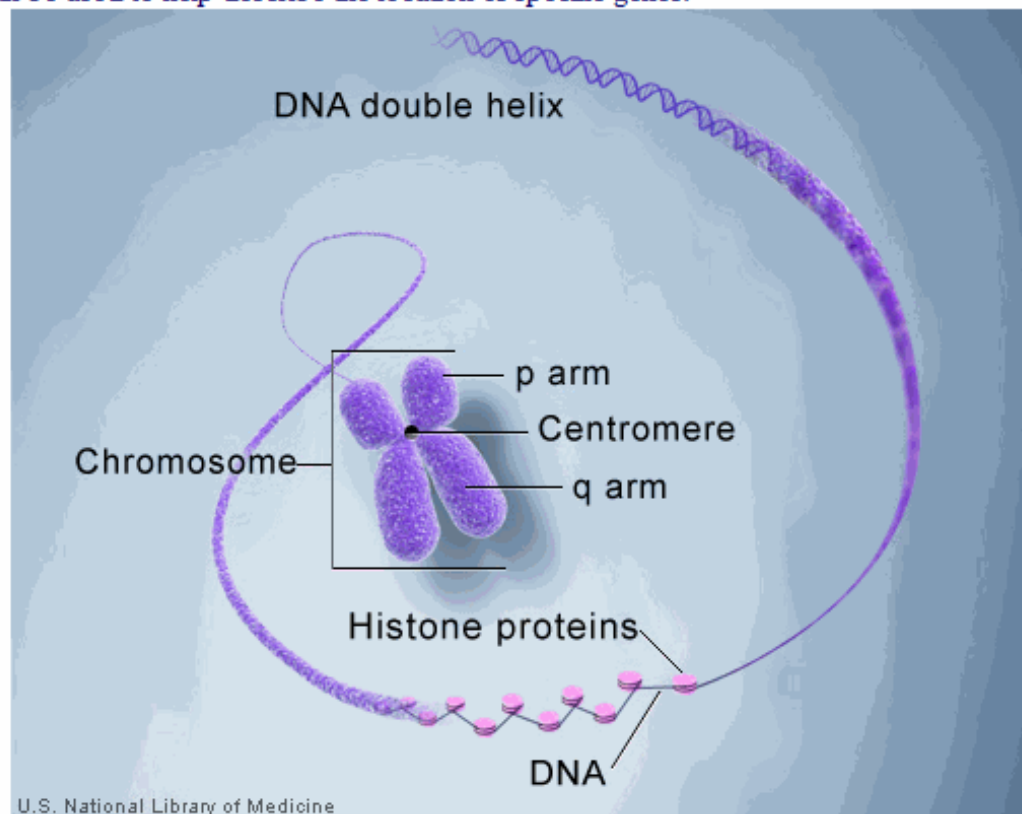
DNA and histone proteins are packaged into structures called chromosomes.

**Figure 2: A sample from GHR's Handbook, "Help Me Understand Genetics."**

GHR also offers a glossary of genetic and medical terms, as well as an extensive list of other trusted online resources categorized by subject and audience.

*Adding Other New Features*

The GHR team has made efforts to educate the public about genetics via its Information Rx initiative. This free resource, which first became available in 2006, enables healthcare professionals to point their patients to reliable health information on the Internet. The program provides "Information Rx" prescription pads that direct patients to the GHR Web site for an explanation of genetic disorders, newborn screening, and related topics. An analysis of the program (Beaudoin et al., 2011) found that it supplemented healthcare providers' advice and helped improve understanding of genetic conditions.

GHR's In the Spotlight feature (see Figure 3), which also began in 2006 and is available on the Web site's homepage, highlights important observances and discoveries in the field of human genetics and draws attention to useful learning tools and clinical resources. Spotlight topics have included newborn screening, family history, direct-to-consumer genetic testing, and Rare Disease Day.



**Figure 3: The In the Spotlight feature on GHR's homepage highlights important information and events.**

**GHR Today**

GHR currently offers more than 2,000 total summaries of genetic information, comprising more than 850 genetic conditions, more than 1,060 genes, about 80 gene families, and all 24 human chromosomes plus mitochondrial DNA. This information has been reviewed by about 650 genetics experts worldwide. "Help Me Understand Genetics" has expanded to more than 70 pages and several dozen illustrations in nine chapters. New information is added regularly as the GHR Web site keeps growing (see Figure 4).

**Cumulative GHR Topics, 2003-2013**
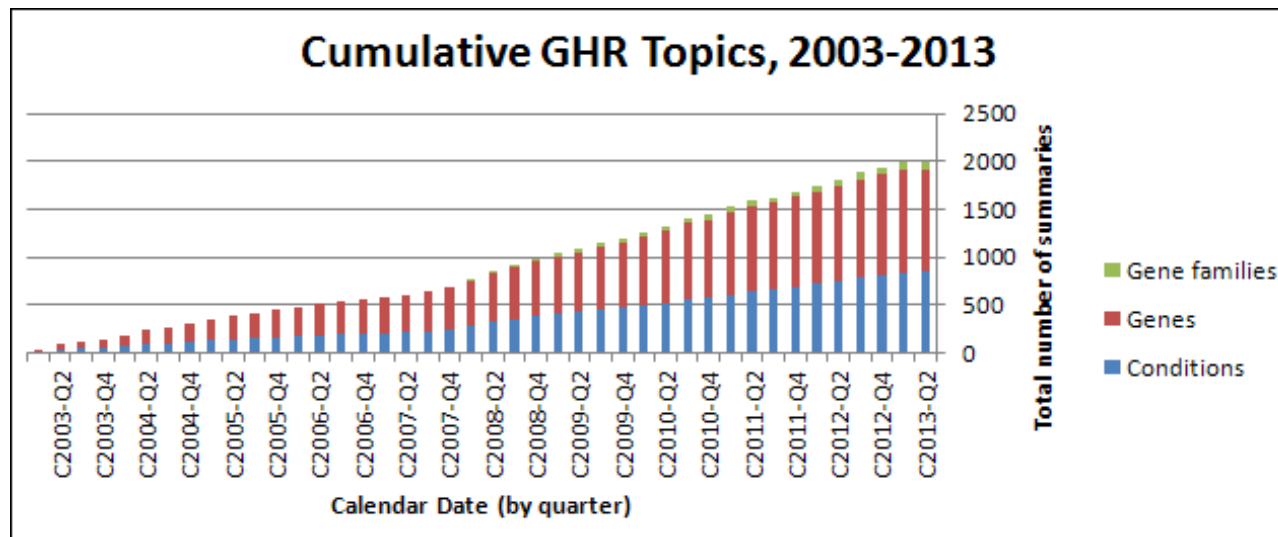
Figure 4: Cumulative GHR topics over the past decade.

GHR continues to be an important and useful health information resource, currently receiving about 43,000 visitors per day and 39 million hits per month (see Figure 5).

**GHR Hits per Month, 2003-2013**
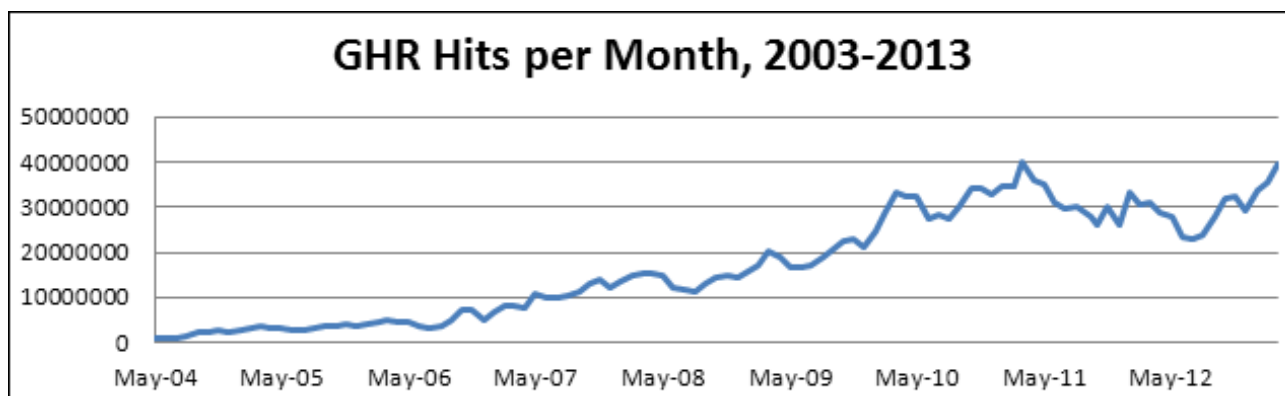
Figure 5: GHR Web traffic over the past decade.

GHR offers an RSS feed for notification about new topics on the Web site. Additionally, GHR provides an API page with information about creating links and tools for downloading GHR data in XML format.

**Future Plans**

The GHR team will continue adding new content to the Web site. In addition to rare disorders with Mendelian inheritance, the Web site will increasingly cover common and complex conditions that have a genetic component.

GHR is an active member of the genetics and bioinformatics communities. The Web site provides links to and from a wide variety of other resources, including the Genetic Testing Registry, OMIM, and the Genetic and Rare Diseases Information Center, and is always looking to coordinate with new partners. GHR staff are also working to map each GHR condition to SNOMED CT, and in collaboration with MedlinePlus Connect will make GHR content accessible from electronic health records. Additionally, terms from GHR are being integrated into the forthcoming 2014 MeSH vocabulary.

The GHR team welcomes feedback and suggestions for future content. A "Contact Us" link is available at the top of each page on the Web site.

By Stephanie Morrison
Lister Hill National Center for Biomedical Communications

## IndexCat Data Available in XML

IndexCat Data Available in XML. NLM Tech Bull. 2013 Mar-Apr;(391):b7.

**2013 April 12** [posted]

NLM has announced the release of XML data from the IndexCat™ database (http://indexcat.nlm.nih.gov). It includes the digitized content of the printed sixty-one volume *Index-Catalogue of the Library of the Surgeon's General's Office* containing references to over 3.7 million bibliographic items, spanning five centuries and covering subjects of the basic sciences, scientific research, civilian and military medicine, public health, and hospital administration. The XML data include millions of journal and newspaper articles, obituaries, and letters, hundreds of thousands of monographs and dissertations, and thousands of portraits.

Also released is an integrated XML file for the two historical collections developed from the electronic database of *A Catalogue of Incipits of Mediaeval Scientific Writings in Latin* (rev.), by Lynn Thorndike and Pearl Kibre (eTK) and the updated and expanded version of *Scientific and Medical Writings in Old and Middle English: An Electronic Reference* (eVK2) edited by Linda Ehrsam Voigts and Patricia Deery Kurtz. These resources encompass over 42,000 records of incipits, or the beginning words of a medieval manuscript or early printed book covering various medical and scientific writings on topics as diverse as astronomy, astrology, geometry, agriculture, household skills, book production, occult science, natural science and mathematics largely intermingled in the medieval period of European history.

The data are available free for downloading via FTP and no license is required.

Inquiries about the new XML datasets and DTDs associated with the IndexCatalogue and eTKeVK2 collections may be directed to NLM Customer Service.

By Laurie A. DuQuette
History of Medicine Division

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# Nine New Granting Organizations for MEDLINE/PubMed

**2013 April 09** [posted]

In the future, NLM will add grant information for eight new United States grant funding organizations associated with the Health Research Alliance (HRA), in the Grant Number [gr] field:

- Alzheimer's Association
- CURE, Citizens United for Research in Epilepsy
- Damon Runyon Cancer Research Foundation
- Foundation Fighting Blindness
- JDRF
- LUNGevity Foundation
- Pancreatic Cancer Action Network
- Thome Foundation

In addition, one new United Kingdom granting organization will be added effective May 2013:

- Yorkshire Cancer Research

The funding information added to citations for these organizations will be coming from the NIH Manuscript Submission (NIHMS) system only. Each of these granting organizations has their own grant number formats.

We recommend users search for the new granting organizations using the full name:

thome foundation [gr]

The PubMed Abstract display will show the funding information under Grant Support:

**Grant Support**

- 2012.ThomeAD.5828

**Grant Number Information Web Page Updated**
The Grant Number Information Found in the GR Field in the MEDLINE/PubMed Web page has been updated to include the nine new funding organizations.

By Sara Tybaert
MEDLARS Management Section

**Last updated:** 09 April 2013

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## My NCBI Saved Search Enhancements

**2013 March 29** [posted]
**2013 April 23** [Editor's note added]

[Editor's note added April 23, 2013: These changes were implemented in PubMed on April 17, 2013.]

The My NCBI Saved Search Settings page will soon be modified to include the ability to edit the search terms (see Figure 1).

**Figure 1: My NCBI Saved Search Setting page with an editable "Search terms" box.**

Users may change the search in the "Search terms" box, and then click the "Test search terms" link to check the search in PubMed before saving (see Figure 2).
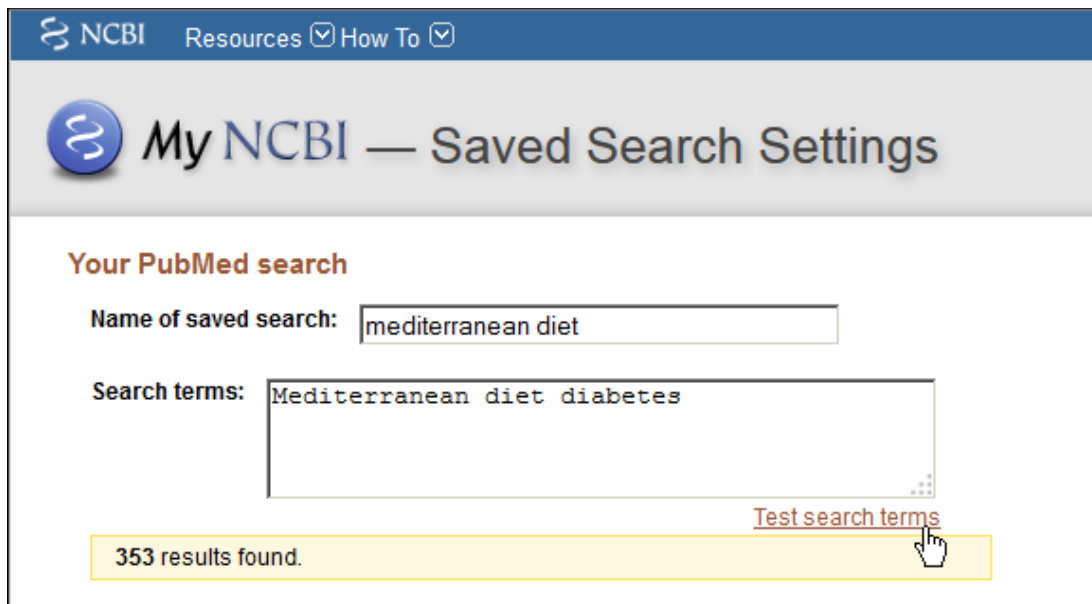
**Figure 2: Saved search terms modified and tested in PubMed.**

Click the "Save" button (see Figure 3) after any edits to save the changes to the search name, search terms, e-mail schedule, or optional text. The Saved Search Settings page e-mail update schedule selections will also be streamlined.

My NCBI Saved Search Enhancements. NLM Technical Bulletin. 2013 Mar–Apr

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**Figure 3: Click Save to update saved search settings.**

In addition, an "Edit" link to the Saved Search Settings page will be added to the My NCBI automatic e-mail alerts (see Figure 4).

**Subject:** What's new for 'IL-17 pathogen defense' in PubMed

This message contains My NCBI what's new results from the National Center for Biotechnology Information (NCBI) at the U.S. National Library of Medicine (NLM).
Do not reply directly to this message.

**Sender's message:** Search: IL-17 pathogen defense

Sent on Tuesday, 2013 March 12
Search: **IL-17 pathogen defense**

View complete results in PubMed (results may change over time).

Edit saved search settings, or unsubscribe from these e-mail updates.

| PubMed Results |
|---|

Items 1 - 4 of 4

1. Allograft inflammatory factor-1 stimulates hemocyte immune activation by enhancing phagocytosis and expression of inflammatory cytokines in Crassostrea gigas.

**Figure 4: My NCBI automatic e-mail update message with modified links.**

By Kathi Canese
National Center for Biotechnology Information

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# NLM @ MLA - 2013

**2013 March 29** [posted]
**2013 April 12** [Editor's note added]
**2013 May 14** [Editor's note added]


[Editor's note: The speakers for the NLM Update were revised on April 12, 2013.]
[Editor's note: Recordings of the NLM Theater Presentations added on May 14, 2013.]

The Annual Meeting of the Medical Library Association (MLA) will be held May 3-8, 2013 at the Hynes Convention Center in Boston, MA. Attendees are invited to visit the NLM exhibit booth #226 (May 4-7) to meet NLM staff and see NLM Web products and services. The NLM Theater at the booth will feature demonstrations and tutorials on a wide variety of topics. Please see the NLM Theater schedule.

**Mark Your MLA Calendars**

Sunday, May 5 (2:00 pm – 3:00 pm)
*DOCLINE Users Group Meeting*
Location: Rm. 310, Hynes Convention Center

Monday, May 6 (7:00 am – 8:15 am)
*Offline with NLM "Sunrise Seminar"*
Location: Rm. 309, Hynes Convention Center
Join NLM as we highlight tips on using PubMed, TOXNET and other NLM resources, our plans for the NLM Digital Collections, and a behind-the-scenes view of improving our print collection facility.

Tuesday, May 7 (10:30 am – 11:30 am)
*NLM Update*
Location: Ballroom ABC, Hynes Convention Center

Speakers: *[Editor's note: The speakers for the NLM Update were revised on April 12, 2013.]*

Betsy Humphreys, Deputy Director
Joyce Backus, Library Operations
Dr. Stephen Greenberg, History of Medicine Division

Wednesday, May 8 (9:00 am – 10:00 am)
*Joseph Leiter NLM/MLA Lecture*
Location: Ballroom ABC, Hynes Convention Center
Speaker: Sheila Davis, Director of Global Nursing, Partners in Health (PIH)


**Continuing Education Classes**

While at the meeting in Boston, consider taking an MLA Continuing Education class taught by NIH, NLM or National Network of Libraries of Medicine (NN/LM) staff:

Friday, May 3 (8:00 am – Noon)
Health and Disaster: Understanding International Context
CE101
Instructors: John C. Scott and Patricia Bittner, Disaster Risk Management, Center for Public Service Communications, Arlington, VA

Saturday, May 4 (8:00 am – 3:00 pm)
Health and Wellness @ the Library: The Essentials of Providing Consumer Health Services
CE304
Instructors: Kelli Ham, NN/LM, Pacific Southwest Region, UCLA Biomedical Library, Center for the Health Sciences, University of California-Los Angeles
Note: Web-based portion of the course will take place pre- and post-meeting. Participants will receive 12 MLA CE contact hours if they participate. The course meets requirements for the MLA Consumer Health Information

Specialization, Level I.

Saturday, May 4 (8:00 am – Noon)
Making a Difference in Health Care: Patient Safety, a Global Issue with National and International Solutions
CE 100
Instructors: Holly Ann Burt, NN/LM, Greater Midwest Region, Library of the Health Sciences, University of Illinois-Chicago; and Affra S. Al Shamsi, Medical Library, Ministry of Health-Royal Hospital, Muscat, Sultanate of Oman

Saturday, May 4 (8:00 am – Noon)
Business Communications: Library Style
CE201
Instructors: Marty Magee, NN/LM, MidContinental Region, McGoogan Library of Medicine, University of Nebraska Medical Center; and Barb Jones, NN/LM, MidContinental Region, J. Otto Lottes Health Sciences Library, University of Missouri-Columbia
Note: This course will also be offered as an eLearning Web-based CE course.

Further course details are available at http://mlanet.org/am/am2013/ce/index.html.

**Section-Sponsored Programming**

NIH, NLM, and NN/LM staff will also be participating in the following MLA sessions:

Sunday, May 5 (4:30-6:00 PM)
Session: 14 – Evidence-Based Health Policy
Topic: 1 - *Assessing our Value: This Is Our Story*
Presenters: Diane Cooper, Alicia A. Livinski, Bradley Otterson, Nancy Lee Terry, Terrie Wheeler, Anne White-Olson, NIH Library, National Institutes of Health
Room: 305

Session: 30 – New Voices in an Interdependent World
Topic: 1 – *The Library's Role in E-Science Programs in Research Universities*
Presenter: Mary Piorun, National Network of Libraries of Medicine, New England Region, Lamar Soutter Library, Medical School, University of Massachusetts
Room: 303

Session: This Just In: Lightning Talks on One Health
Topic: *Health Information Service to Older Adults at the Bedside*
Presenters: Michele Mason-Coles, NLM Associate Fellow, National Library of Medicine; Lois Culler and Susan Heisey, Inova Fairfax Hospital Health Sciences Library, Falls Church, VA
Room: 312

Session: This Just In: Lightning Talks on One Health
Topic: *Building a Web Portal of Data Sharing Repositories and Data Sharing Policies: A Contribution to the Data Sharing Initiative at the National Institutes of Health*
Presenter: Kevin Read, NLM Associate Fellow, National Library of Medicine, Bethesda, MD
Room: 312

Monday, May 6 (10:30 am – 12:00 Noon)
Session: 7 – Health Literacy: Linguistic and Cultural Diversity
Topic: 3 – *Using Crowdsourcing and Participatory Design in the Development of Graphics to Enhance Health Education Materials for Underrepresented Populations*
Presenters: Erica Lake, Hope Fox Eccles Health Library, Spencer S. Eccles Health Sciences Library, University of Utah; Jean P. Shipman, Spencer S. Eccles Health Sciences Library, University of Utah; Qing Zeng-Treitler, Department of Biomedical Informatics, University of Utah
Room: 308

Session: 36 – Integrating Our Expertise: Engaging Our Partners in Resources at the Bench or at the Point of Care
Topic: 4 - *Reverse Information Specialists in Context? Bringing Users Back into the Library by Creating Research and Innovation Centers and Customized Support and Tools*
Presenters: Abby L. Adamczyk, Joan Marcotte Gregory, Peter Stevens Jones, Shelli King, Jean P. Shipman, and Joan M. Stoddart, Spencer S. Eccles Health Sciences Library, University of Utah
Room: 313

Session: 13-1 –The Role of Librarians in Evidence-Based Medicine – Part One
Topic: 3 – *Telling the Research Story: A Role for Librarians in Analyzing Research Impact Based on Evidence*
Presenters: Cathy C. Sarli, Bernard Becker Medical Library, School of Medicine, Washington University in St. Louis; and Terrie Wheeler, Division of Library Services, National Institutes of Health
Room: 312

Monday, May 6 (3:00 pm – 4:30 pm)
Session: 41 – Leading by Design, not Default: Focused Direction in Support of the User
Topic: 3 – *Reconceptualizing a Liaison Library Program to Develop a Research and Innovation Unit: How and Why We Did It and What We Learned*
Presenters: Tania Bardyn, Amy L. Harper, Diana K. Nelson Louden, Lisa Oberg, and Joanne Rich, Health Sciences Library, University of Washington

Room: 311

Session: 15 – Partnering with the Public: Collaborating with Public Libraries
Topic: 4 – *Women's and Family Health: Working with Public Libraries to Reach New Audiences*
Presenter: Laura Bartlett, Outreach and Special Populations Branch, National Library of Medicine, National Institutes of Health
Room: 308

Session: 8 – The Provision of Health Information and Health Care Services to an Aging Population with Chronic Health Conditions
Topic: 2 – *Information Everywhere in Support of Elder Care: Health Promotion Programs for the Aging Population*
Presenter: Lydia N. Collins, National Network of Libraries of Medicine, Middle Atlantic Region, Health Sciences Library System, University of Pittsburgh

Session: 13-2 – The Role of Librarians in Evidence-Based Medicine – Part Two
Topic: 1 – *Development of a Class for Researchers on Best Practices for Conducting and Reporting Systematic Reviews*
Presenters: Susan M. Pilch, Mary Ryan, Pamela Sieving, Karen Smith, Nancy Lee Terry, and Anne White-Olson, NIH Library, National Institutes of Health

Tuesday, May 7 (3:00 pm – 4:30 pm)
Session: 11 – Education and Media: Creative Advice from the Media Experts
Topic: 4 – *Flip that Class: New Media and Emerging Technologies for Creative Instruction*
Presenter: Andrew Youngkin, National Network of Libraries of Medicine, Southeastern/Atlantic Region, Health Sciences and Human Services Library, University of Maryland
Room: 303

Session: 25 – Healthcare Information For All – HIFA 2015
Topic: 3 – *Crossing Boundaries to Provide Health Outreach to African Americans and African Immigrants*
Presenters: Lydia N. Collins, National Network of Libraries of Medicine, Middle Atlantic Region, Health Sciences Library System, University of Pittsburgh; and Annamore Matambanadzo, Department of Family Medicine, School of Medicine, University of Pittsburgh
Room: 312

Session: 43 – Librarians at Work: Building a One Health Perspective
Topic: 4 – *From Bench to Bedside: Building Interprofessional Innovations*
Presenters: Joan Marcotte Gregory, Jeanne Marie LeBer, Jean P. Shipman, and Alice I. Weber, Spencer S. Eccles Health Sciences Library, University of Utah
Room: 313

Session: 17 – Structuring Our Services for the Future in Health Care
Topic: 1 – *Informatics in the Hospital Library*
Presenter: P. J. Grier, National Network of Libraries of Medicine, Southeastern/Atlantic Region, Health Sciences and Human Services Library, University of Maryland
Room: 310

Session: 16 – The Role of Alternative and Indigenous Medicine in Global health: Historical and Contemporary Perspectives
Topic: 1 – *Complementary and Alternative Medicine: From Ancient to Modern Times*
Presenter: Stephen Greenberg, History of Medicine Division, National Library of Medicine
Room: 301

Tuesday, May 7 (6:00 pm – 7:30 pm)
Session: 27 – Top Technology Trends VI
Topic: 3 – *Utilizing Semantic MEDLINE for Collaborations and Literature-Based Discovery*
Presenters: Thomas Rindflesch, Lister Hill National Center for Biomedical Communications, National Library of Medicine, National Institutes of Health; and Susan L. Roy, NLM Associate Fellow, National Library of Medicine, NIH Library, National Institutes of Health
Room: 312

Session: 27 – Top Technology Trends VI
Topic: 6 – *Third-Party Applications Aim to Provide Greater Access to Social Media Content/Improving Accessibility to Twitter with Easy Chirp*
Presenter: Andrew Youngkin, National Network of Libraries of Medicine, Southeastern/Atlantic Region, Health Sciences and Human Services Library, University of Maryland
Room: 312

**Posters**

NIH, NLM and NN/LM staff will be presenting the following posters at MLA:

Poster Session 1
Sunday, May 5 (1:30 pm – 2:30 pm)
Topic: 45. *Beyond the Library Doors: Consumer Health Outreach in Community-Based Organizations*
Author: Lydia N. Collins, National Network of Libraries of Medicine, Middle Atlantic Region, Health Sciences

Library System, University of Pittsburgh, Pittsburgh, PA
Objectives: Community-based organizations (CBOs) provide health outreach and health literacy training for community members. Many community agencies are not aware of the various resources that are freely available to them via the National Library of Medicine (NLM) and other trusted health information sources. This poster describes health literacy outreach efforts of local community agencies and their work with NLM.

Topic: 61. *Computerized Physician Order Entry (CPOE) in an Urban Academic Medical System: Librarian Support of CPOE Implementation*
Authors: Patricia J. Devine, National Network of Libraries of Medicine, Pacific Northwest Region; Sherry Dodson; Ann Whitney Gleason; Leilani A. St. Anna, University of Washington-Seattle; Susan Barnes, National Network of Libraries of Medicine Outreach Evaluation Resource Center; and Mahria Lebow, National Network of Libraries of Medicine, Pacific Northwest Region; University of Washington–Seattle
Objectives: Explore and understand the information-seeking behaviors and workflow of a wide range of clinical providers, through direct observation during librarian participation in on-the-floor computerized provider order entry (CPOE) implementation support. This effort will lead to a better understanding of barriers to health information resources at the point of care and explore opportunities for collaboration to improve health information delivery. CPOE is being implemented in two hospitals within an urban academic medical system during 2012; the on-site support team includes medical librarians.

Topic: 65. *Contributing to History: Our Role in the Work of the Presidential Commission for the Study of Bioethical Issues*
Authors: Alicia A. Livinski and Nancy Lee Terry, NIH Library, National Institutes of Health, Bethesda, MD
Objectives: In late 2010, the Presidential Commission for the Study of Bioethical Issues was charged by President Obama to investigate US Public Health Service (USPHS) sexually transmitted disease research conducted in Guatemala from 1946-1948 and conduct a review of current research studies involving human subjects. Commission staff requested library assistance to conduct searches of the scientific and gray literature on the role of human subjects in historical and contemporary settings.

Topic: 73. *Creating and Managing a Systematic Review Service*
Authors: Susan A. Fowler, Lauren H. Yaeger, and Betsy Kelly, School of Medicine, Washington University in St. Louis, St. Louis, MO
Objectives: Systematic reviews require the particular knowledge and skill set of information professionals, with most guidelines recommending that researchers include an information professional from the beginning. In recognition of the growing need for support of systematic reviews at our institution, we created a service based on the skills of our existing information professional team and available resources.

Topic: 76. *Discovery within a Library: Creating Experiences that Welcome and Invite a Health Sciences Community*
Authors: Joan Marcotte Gregory; Christy Jarvis; Jeanne Marie LeBer; Nancy T. Lombardo; Jean P. Shipman; and Joan M. Stoddart, Spencer S. Eccles Health Sciences Library, University of Utah–Salt Lake City
Objectives: Through a recent renovation of the Spencer S. Eccles Health Sciences Library, a perfect opportunity arose to develop an engaging experiential learning environment where users could rediscover the library as a place to gather, learn, innovate, interact, and collaborate.

Topic: 88. *Disaster Health Information Outreach and Collaboration Projects*
Authors: Elizabeth F. Norton, Cynthia B. Love, Stacey J. Arnesen, Disaster Information Management Research Center, National Library of Medicine, Bethesda, MD
Objectives: Do collaborations between libraries and disaster organizations improve use of disaster medicine and public health information and result in closer working relationships among agencies?

Topic: 117. *Frameworks for a Data Management Curriculum for Science, Health Sciences, and Engineering Students*
Authors: Donna Kafel, Lamar Soutter Library, Medical School, University of Massachusetts, Worcester, MA; Mary Piorun, Lamar Soutter Library, Medical School, University of Massachusetts, Worcester, MA; Sia Najafi, Research Computing and Departmental Technology Support, Worcester Polytechnic Institute, Worcester, MA; Tracey Leger-Hornby, Library Services, Worcester Polytechnic Institute, Worcester, MA; Elaine Russo Martin, Lamar Soutter Library and National Network of Libraries of Medicine, New England Region, Medical School, University of Massachusetts, Worcester, MA
Objectives: This poster illustrates the "Frameworks for a Data Management" curriculum intended for undergraduate and graduate students studying science, health sciences, and engineering disciplines.

Topic: 225. *Organization and Outreach: Building a Microsoft Access Database to Improve Circulation Service to Our Community*
Authors: Tiffany Tawzer, National Network of Libraries of Medicine, Greater Midwest Region, Library of the Health Sciences, University of Illinois–Chicago; Melissa Theroux, Hirsh Health Sciences Library, Tufts University, Boston, MA; Amy R. Lapidow, Hirsh Health Sciences Library, Tufts University, Boston, MA; and Gail Y. Hendler, Health Sciences Library, Loyola University Chicago, Maywood, IL
Objectives: A circulation department reorganization prompted a quality improvement project for our library desk assistant staff. The project aimed to organize and update our highly used reserve collection to improve access for students, faculty, and staff. We initiated outreach to faculty to partner with purchase decisions and update the collection. We promoted our outcomes on Facebook to the campus community.

Topic: 233. *Arctic Health: Corralling Wide-Ranging Information on Arctic Climate Change*
Authors: Sigrid Brudie, Alaska Medical Library, Consortium Library, University of Alaska–Anchorage; Laura Bartlett, Outreach and Special Populations Branch, National Library of Medicine, National Institutes of Health, Bethesda, MD; and Christy Garrett, Consortium Library, University of Alaska–Anchorage
Objectives: Declining sea ice, thawing permafrost, coastal erosion, extreme weather, carbon releases, habitat loss,

ocean acidification, emerging pathogens--all are calamities linked to climate change in the Arctic, and all have impacts on the activities, diet, safety, and health of people in the far north. Collecting this information in one place is essential in capturing the symbiotic relationship of the Arctic.

Topic: 274. *Distance Education: How a School of Public Health Informationist Program Responds*
Authors: Donna D. Hesson; Ivy L. Garner; Peggy Gross; Lori Rosman; Claire Twose; and Julie M. Adamo, Associate Fellow, National Library of Medicine; Welch Medical Library, Johns Hopkins University, Baltimore, MD
Objectives: In response to needs expressed by faculty, this project intends to investigate and assess how an embedded informationist program could increase its support to multiple and growing domestic and international distance-based education programs in a premiere school of public health.

Topic: 286. *Supporting the Information Needs of Critical Access Hospitals*
Authors: Kate Flewelling, National Network of Libraries of Medicine, Middle Atlantic Region, University of Pittsburgh, Pittsburgh, PA; and Jeffrey M. Garvey, Director, Hunter-Rice Health Sciences Library, Samaritan Medical Center, Watertown, NY
Objectives: Critical access hospitals (CAHs) are rural, community-based hospitals; have no more than thirty-five inpatient beds; and are located thirty-five miles from another hospital. This poster will provide an introduction to CAHs and their role in the provision of health care in rural areas of the United States, as well as describe an outreach project to four CAHs in northern New York.

Topic: 298. *Project SHARE: Building Community Health Advocates*
Authors: Anna Tatro, M. J. Tooey, and Alexa Mayo, Health Sciences and Human Services Library, University of Maryland–Baltimore
Objectives: The objective of the program is to create a unique and comprehensive program addressing problems and solutions surrounding health disparities and to engage the students as health advocates in their school and communities.

Topic: 306. *A Member of the Team: One Librarian's Role in Developing a Consensus Statement*
Author: Alicia A. Livinski, NIH Library, National Institutes of Health, Bethesda, MD
Objectives: In 2008, the American College of Chest Physician's (ACCP) published a series of 5 articles on definitive care for the critically ill during a disaster. This series was amongst the first to address the complex and emotionally charged issue of providing care when not everyone can be cared for during a disaster. In 2011, work began to expand and update.

Poster Session 2
Monday, May 6 (1:30 pm – 2:30 pm)
Topic: 2. *Comparing Experiences of Participants Taking In-Person versus Online Classes*
Authors: John Bramble, Spencer S. Eccles Health Sciences Library, University of Utah–Salt Lake City; Betsy Kelly, National Network of Libraries of Medicine, MidContinental Region, Becker Medical Library, School of Medicine, Washington University in St. Louis, St. Louis, MO; Marty Magee, McGoogan Library of Medicine, University of Nebraska Medical Center; and Sharon Dennis, National Library of Medicine Training Center, Spencer S. Eccles Health Sciences Library, University of Utah–Salt Lake City
Objectives: Are student experiences significantly more positive for classes that are taught in-person or taught online, or are there only negligible differences? Using the MLA class evaluation form, we will analyze the differences in responses from participants who have taken classes either in-person or online.

Topic: 58. *Comparing Completion Rates: Blended versus Asynchronous Classes*
Authors: Rebecca Brown and Sharon Dennis, National Library of Medicine Training Center, Spencer S. Eccles Health Sciences Library, University of Utah–Salt Lake City
Objectives: Determine if offering continuing education coursework in a blended class format has a greater completion rate than offering coursework in an asynchronous only class format. Will a greater number of enrollees complete the class when compared to an asynchronous only class? For the purposes of our study, blended is defined as: a combination of synchronous, online sessions along with an in-person component.

Topic: 86. *Directory of National Network of Libraries of Medicine Resource Libraries Offering Virtual Reference Services to the Public*
Authors: Nora Barnett, Librarian, Portland, OR; and Ryan Geoffrey Cohen, Reference and Web Services, National Library of Medicine, Bethesda, MD
Objectives: The question propelling this project is: Where can members of the public go online to get help finding medical or health information from a trained medical librarian? Our objective is to investigate the provision of virtual reference services by National Network of Libraries of Medicine (NN/LM) to members of the public.

Topic: 126. *Going Inside to Get the Word Out: Improving Health Literacy with Inmates*
Authors: Gail Kouame, National Network of Libraries of Medicine, Pacific Northwest Region, UW Health Sciences Library, University of Washington–Seattle; David Young, Community Resources Program, Extension and College of Nursing, Montana State University, Bozeman, MT; and Jackie Keery, Gallatin County Detention Center, Bozeman, MT
Objectives: This project's goal was to improve the health literacy, self-care management skills, and personal health care decision making of inmates during and after incarceration in a detention center. Increased awareness of resources for quality health information and services; improved ability to process, understand, and communicate basic health information; and better ability to understand and manage health issues and concerns.

Topic: 130. *Healthy People 2020 Structured Evidence Queries for PubMed: Practice Informed by Research*
Authors: E. Hatheway Simpson, National Network of Libraries of Medicine, New England Region, Medical School, University of Massachusetts, Shrewsbury, MA; Lisa A. Sedlar and Lisa Lang, National Information Center on Health Services Research and Health Care Technology, National Library of Medicine, Bethesda, MD
Objectives: Healthy People (HP) 2020 is a set of objectives with ten-year targets to guide national health

promotion and disease prevention efforts. Public health professionals may have limited time to identify relevant research articles on public health strategies. The National Library of Medicine (NLM) recognized the need to reduce the time and increase the precision of finding research to support evidence-based actions to achieve HP2020 objectives.

Topic: 144. *Impact of Disaster Health Information Training on Librarians' Professional and Volunteer Activities*
Authors: Cynthia B. Love, Disaster Information Management Research Center, National Library of Medicine, Bethesda, MD; Cynthia A. Olney, CO Evaluation Consulting LLC; Jessi Van Der Volgen, NLM 2nd-year Associate Fellow, Spencer S. Eccles Health Sciences Library University of Utah, Salt Lake City
Objectives: Do training activities on disaster health information topics affect librarians' willingness to participate in disaster preparedness, response, and recovery activities in their communities? Does training increase self-assessed confidence and skills in providing disaster health information? Do students change their involvement in disaster-related activities following training?

Topic: 247. *Validating a Search Filter for Diagnosis Sensitivity and Specificity*
Authors: Susan A. Fowler, Lauren Yaeger, Betsy Kelly, and Christopher Robert Carpenter, School of Medicine, Washington University in St. Louis, St. Louis, MO
Objectives: Systematic reviews require the particular knowledge and skill set of information professionals who structure complex search filters and organize the resulting literature. We propose to utilize our unique set of research skills by validating a search filter in a topic commonly requested by our clinical researchers.

Topic: 267. *Regional Collaboration on Best Practices in Consumer Health Outreach*
Authors: Terri Ottosen and Nancy Patterson, National Network of Libraries of Medicine, Southeastern/Atlantic Region, Health Sciences and Human Services Library, University of Maryland–Baltimore
Objectives: This paper describes the creation of a secure regional collaborative space for sharing best practices in consumer health outreach.

Topic: 307. *Tomato or Tomahto? Helping Medical Librarians Collaborate with Science Librarians to Improve the Value of Libraries*
Author: Melissa J. Harvey, National Network of Libraries of Medicine, Middle Atlantic Region, Health Sciences Library System, University of Pittsburgh, Pittsburgh, PA
Objectives: After twenty years in science libraries, returning to medical librarianship has proven to be an interesting change working in a Regional Medical Library. I intend to demonstrate how both of these fields are doing comparable work burgeoning into new arenas such as e-science, translational science, data librarianship, embedded librarianship, and so on.

Poster Session 3
Tuesday, May 7 (12:00 pm – 1:00 pm)
Topic: 23. *Use of the Electronic Health Record (EHR) to Identify and Eliminate Health Disparities: An International Look*
Authors: Patricia J. Devine, National Network of Libraries of Medicine, Pacific Northwest Region; Jim Anderson, Physician Assistant, University of Washington–Seattle
Objectives: With the rapid development of health information technology has come the potential to use the electronic health record (EHR) to improve and standardize care of populations traditionally suffering health inequities. What do the data show? Is there evidence indicating that EHRs actually impact health disparities? Will the promises of disparities reduction through EHRs be realized? We will determine ways in which the electronic health record is being used to identify and address health disparities.

Topic: 27. *Providing Information in an Interdependent Environment*
Authors: Jeanne Marie LeBer; Abby L. Adamczyk; Peter Stevens Jones; Mary M. McFarland; and Jean P. Shipman, Spencer S. Eccles Health Sciences Library, University of Utah–Salt Lake City
Objectives: Integrating two new positions within an existing reference department at the Spencer S. Eccles Health Sciences Library offered challenges and opportunities for reevaluating roles and assessing user needs. The two positions include a research librarian and a research concierge with the Center for Clinical and Translational Science. The head of reference is relatively new to her position but has decades of experience and expertise in providing service.

Topic: 47. *Reaching out to a Regional Public Health Workforce*
Author: Sheila L. Snow-Croft, National Network of Libraries of Medicine, Southeastern/Atlantic Region, Health Sciences and Human Services Library, University of Maryland–Baltimore
Objectives: Develop and assess a comprehensive outreach program for the public health workforce and librarians who support them with the goal of increasing understanding and usage of quality resources, health literacy, and evidence-based public health.

Topic: 91. *Solutions to Social Media Overload: Bank Your Tweets!*
Authors: Siobhan Champ-Blackwell, Aquilent, Bethesda, MD; Jamie Peacock and Andrew Plumer, Specialized Information Services, National Library of Medicine, Bethesda, MD; and Mark Hemhauser, McKeldin Library, University of Maryland–College Park
Objectives: A division of a national organization with a broad scope of health information services decided to experiment using Twitter for community outreach. Their goals are twofold: to engage current users and to promote resources. However, due to staff time constraints, the team realized a need for solutions for recycling promotional tweets, allowing more time for outreach and networking.

Topic: 139. *The Academic Medical Library as Online Publisher*
Authors: Mary Piorun, Sally A. Gore, and Lisa A. Palmer, Lamar Soutter Library, Medical School, University of Massachusetts, Worcester, MA; Raquel Abad, Blaisdell Medical Library, University of California-Davis, Sacramento,

CA; and Elaine Russo Martin, Lamar Soutter Library and National Network of Libraries of Medicine, New England Region, Medical School, University of Massachusetts, Worcester, MA
Objectives: To describe the use of the institutional repository system to facilitate the publishing activities of an academic medical library.

Topic: 167. *Think Inside the Blocks: Bringing Health Information to Underprivileged People in Their Own Environment*
Author: Nancy Patterson, National Network of Libraries of Medicine, Southeastern/Atlantic Region, Health Sciences and Human Services Library, University of Maryland–Baltimore
Objectives: As medical librarians, we are dedicated to reducing health disparities. Often, we focus on our library's programming and how to get underserved people into our libraries. This bilingual poster (English/Spanish) provides inspiration for creative outreach that takes place in the communities where underserved people live--in the places they frequent, using the communication modes that are already in place.

Topic: 175. *Tracking National Library of Medicine Funding in Published Articles*
Authors: Susan L. Roy, NLM Associate Fellow, National Library of Medicine; and Valerie Florance, Extramural Programs, National Library of Medicine, National Institutes of Health, Bethesda, MD
Objectives: The National Library of Medicine (NLM) awards a number of grants, including the RO1 research project grant, the premier grant awarded for biomedical research by the institutes at the National Institutes of Health (NIH). The objective of this study was to provide in-depth evaluation of the outcomes and impacts of RO1 grants funded by the NLM for biomedical informatics research.

Topic: 183. *Tweet, Blog, Share, and Post: Improving Communications in an Era of Interdependent Social Media*
Authors: David Midyette, Andrew Youngkin, and Sheila L. Snow-Croft, National Network of Libraries of Medicine, Southeastern/Atlantic Region, Health Sciences and Human Services Library, University of Maryland–Baltimore
Objectives: To evaluate the development and effect of a targeted communication policy using four social media formats (blog, Facebook, Twitter, webinar) and one more traditional format, the email discussion list. To improve communication with health sciences librarians, health care practitioners, and interested parties following the communications of a regional medical library.

Topic: 215. *Visualizing an Inventory of Data-Related Resources in the Health Sciences*
Authors: Joanne Rich, Amy L. Harper, Diana K. Nelson Louden, Leilani A. St. Anna, Sarah Safranek, Angela S. W. Lee, Ann Whitney Gleason, Lisa Oberg, and Tania Bardyn, Health Sciences Library; University of Washington–Seattle
Objectives: Data literacy is becoming an expected, if not native, competency in academic and medical librarianship. The transition to data literacy may be eased by having an understanding of the resource types in use and their application to the practice of librarianship. This poster aims to develop an inventory of data resources available in the health sciences.

Topic: 231. *What Women Want: Reenvisioning a Resource through User Needs and Usability Testing*
Author: Laura Bartlett, Outreach and Special Populations Branch, National Library of Medicine, National Institutes of Health, Bethesda, MD
Objectives: To gain a greater understanding of audience needs in understanding and using women's health research and improvements to the usability of the resource. Research on women's health and sex differences is a new and specific field of study that is used by various audiences. In providing a portal, we have to meet several needs of different user audiences.

Topic: 296. *A Proposal for Certification of Librarians as Partners in Systematic Reviews*
Authors: Pamela C. Sieving, AHIP, NIH Library, National Institutes of Health, Bethesda, MD; Kay Dickersin, Roberta W. Scherer, and Ann-Margret Ervin, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD
Objectives: To present the rationale for and development of a program to certify librarians as knowledgeable, skilled partners in preparation of systematic reviews (SRs). Identification of relevant studies to include in an SR is arguably the most important aspect of a high-quality SR and accordingly, a major responsibility to librarians. Certification of their expertise enhances credibility.

Topic: 304. *Focusing Resources in Support of Our Users Using the Balanced Scorecard Approach*
Authors: Terrie Wheeler and Keith W. Cogdill, Division of Library Services, National Institutes of Health, Bethesda, MD
Objectives: In any resource-constrained environment, performance management systems that focus resources on an organization's strategic objectives are crucial to its future success. The National Institutes of Health (NIH) Library chose the balanced scorecard approach to performance management and has entered its second year of implementation.

Poster Session 4
Tuesday, May 7 (1:30 pm – 2:30 pm)
Topic: 16. *A Solution in Sight: Collaboration to Improve Access to the World's Ophthalmic Information*
Authors: Bette Anton, Fong Optometry and Health Sciences Library, University of California–Berkeley; Pamela C. Sieving, NIH Library, National Institutes of Health, Bethesda, MD; P. Kirubanithi, Library and Information Centre, Aravind Eye Hospital, Madurai, India; Suzanne S. Gilbert, Center for Innovation in Eye Care, Seva Foundation, Berkeley, CA; and Katie Judson, Seva Foundation, Berkeley, CA
Objectives: A Solution in Sight is a three-year project funded by the Elsevier Foundation. The partners are vision librarians in India, Nepal, Tanzania, Guatemala, Egypt, and the United States, and staff of the Seva Foundation. We work collaboratively to support Centers for Community Ophthalmology to reach VISION2020 goals. Our poster describes progress at the half-way point in the grant.

Topic: 36. *Analysis of Consumer Health Questions for Development of Question-Answering Technology*
Authors: Jessi Van Der Volgen, NLM Associate Fellow, Spencer S. Eccles Health Sciences Library, University of

Utah–Salt Lake City; Bethany R. Harris, Health Sciences, UCI Libraries, University of California, Irvine, Irvine, CA; and Dina Demner-Fushman, Lister Hill National Center for Biomedical Communications, National Library of Medicine, Bethesda, MD

Objectives: To develop a computer system to answer consumer health questions by applying modern techniques in natural language processing and information retrieval. As a first-line reference system, the application will partially automate responses to users by searching and retrieving relevant documents from reliable, freely available consumer health information resources that are regularly reviewed and updated by library staff. The purpose of this project was to analyze the types of questions consumers submit to the National Library of Medicine (NLM), determine if the answers to the questions could be found in NLM resources, and create a taxonomy and annotation guidelines for consumer health questions for a machine-learning task.

Topic: 84. *Diagnostic Error and Patient Safety: Librarian Decision-Making as Part of the Solution*
Authors: Elaine Alligood, Knowledge, Information, and Library Services, VA Boston Health Care System, Boston, MA; Barbara Jones, Missouri Library Advocacy Liaison, J. Otto Lottes Health Sciences Library, University of Missouri–Columbia; Linda C. Williams, Director, Patient Safety Fellowship Site, VA National Center for Patient Safety, Ann Arbor, MI; Lorri Zipperer, Cybrarian, Zipperer Project Management, Albuquerque, NM
Objectives: Examination of diagnostic error (DxEr) and patient safety (PS) requires decision analysis to assess flaws and identify decision process improvement points. Yet, few studies in medical library literature discuss the librarian's own decision-making processes, information failures, or role in DxEr and PS.

Topic: 96. *E-Learning Tools: Developing from the User's Perspective*
Authors: Laura Bartlett, Siobhan Champ-Blackwell, Nicole Dancy, Gale A. Dutcher, Shannon Jordan, Janice E. Kelly, Elizabeth F. Norton, Jamie Peacock, Andrew Plumer, Stephanie Publicker, Specialized Information Services, National Library of Medicine, Bethesda, MD
Objectives: Being a large national organization that also offers resources to internal audiences, we have focused our e-learning tools to be resources centric and not cater to the diverse user populations who access our resources. To better serve our user audiences, we embarked on a division-wide exploration of training, user needs, technology, and how to best serve our diverse audiences.

Topic: 200. *No Subscription? No Problem! A Trial Implementation of Copyright Clearance Center's Get It Now Service*
Authors: Christy Jarvis, Jean P. Shipman, Joan Marcotte Gregory, Amy Birks, and Camille Salmond, University of Utah–Salt Lake City
Objectives: The aim of this study is to evaluate the feasibility of using Copyright Clearance Center's Get It Now (GIN) service to provide prompt fulfillment of full-text articles from selected unsubscribed journals.

Topic: 257. *Partnering with State Libraries: Supporting Public Library Health Information Programs and Training*
Authors: Barbara Jones, J. Otto Lottes Health Sciences Library, University of Missouri–Columbia; Jim Honour, Coe Library, University of Wyoming–Laramie; John Bramble, Spencer S. Eccles Health Sciences Library, University of Utah–Salt Lake City; Dana Abbey, National Network of Libraries of Medicine, MidContinental Region, University of Colorado Anschutz Medical Campus, Aurora, CO; Rachel Vukas, National Network of Libraries of Medicine, MidContinental Region, A. R. Dykes Library, University of Kansas Medical Center, Kansas City, KS; Marty Magee, McGoogan Library of Medicine, University of Nebraska Medical Center; and Betsy Kelly, National Network of Libraries of Medicine, MidContinental Region, Becker Medical Library, School of Medicine, Washington University in St. Louis, St. Louis, MO
Objectives: Coordinators collaborated with the state libraries in a six-state region to assess the needs of public librarians supporting access to health information. Analysis of the assessment will guide subsequent programming and training for public librarians.

Topic: 309. *Collaborating with Campus Information Technology to Test Discovery in Two E-Textbook Readers among Health Sciences Students and Faculty*
Authors: Ann Whitney Gleason; Tania Bardyn; Joanne Rich; Leilani A. St. Anna; David Tolmie; Mary McDonald; Peter Wallis; Cara Giacomini; and Michael Campion, Academic and Learning Technology, Academic Affairs; University of Washington–Seattle
Objectives: In the current environment of electronically available academic content, e-books are no longer simply being read linearly but being used for information discovery. Students are also looking for tools to help in this information discovery process and to improve their e-book reading experiences. This poster describes the University of Washington (UW) Health Sciences Library's (HSL's) proactive collaboration with the UW Information Technology (IT) Department to inform the campus-wide adoption of an e-text platform from a usability and information discovery perspective.


**NLM Theater Schedule, Booth 226**

**Recordings of the NLM Theater Presentations are available.**

**Printer friendly version of the NLM Theater schedule is available.**

**Sunday, May 5**

| | |
|---|---|
| Noon | PubMed Central International Overview |
| 12:30 pm | ClinicalTrials.gov: A New Look |
| 1:00 pm | History of Medicine Division: Exhibitions, Programs, and Resources |
| 1:30 pm | NLM Terminology Resources and Meaningful Use |

| 2:00 pm | (BYOD) Bring Your Own Device: NLM Apps and Social Media |
| 2:30 pm | PubMed Update |
| 3:00 pm | Resources for a Multi-Cultural World |
| 3:30 pm | Implementing RDA: the NLM Perspective |
| 4:00 pm | What's New @ PubMed Health |
| 4:30 pm | Update: Resources for Health Services Research & Public Health |

**Monday, May 6**

| 10:00 am | PubMed Update |
| 10:30 am | Managing NIH Public Access Compliance using My NCBI |
| 11:00 am | Resources for a Multi-Cultural World |
| 11:30 am | Implementing RDA: the NLM Perspective |
| 1:30 pm | NLM Terminology Resources and Meaningful Use |
| 2:00 pm | MedlinePlus & MedlinePlus Connect |
| 2:30 pm | What's New @ PubMed Health |
| 3:00 pm | (BYOD) Bring Your Own Device: NLM Apps and Social Media |
| 3:30 pm | History of Medicine Division: Exhibitions, Programs, and Resources |
| 4:00 pm | Update: Resources for Health Services Research & Public Health |
| 4:30 pm | PubMed Central International Overview |

**Tuesday, May 7**

| 10:00 am | Implementing RDA: the NLM Perspective |
| 11:30 am | ClinicalTrials.gov: A New Look |
| Noon | History of Medicine Division: Exhibitions, Programs, and Resources |
| 12:30 pm | NLM Terminology Resources and Meaningful Use |
| 1:00 pm | MedlinePlus & MedlinePlus Connect |
| 1:30 pm | Managing NIH Public Access Compliance using My NCBI |
| 2:00 pm | PubMed Update |
| 2:30 pm | What's New @ PubMed Health |

**Join Us**

Please join us at these events! Additional information or changes to this information will be added to this article when they become available.

By Janet Zipser
MEDLARS Management Section

# Digital Collections Web Service

Dine B. Digital Collections Web Service. NLM Tech Bull. 2013 Mar-Apr;(391):e3.

**2013 March 25** [posted]

In March 2013, the National Library of Medicine (NLM) released a search-based Web service that provides access to the metadata and full-text OCR of all resources in the Digital Collections repository in Extensible Markup Language (XML) format. The Digital Collections repository includes more than 9,000 digitized monographs, films, and other resources the from NLM collections. Software developers can use this Web service to incorporate the historical resources into their own applications.

The Web service accepts keyword searches as HTTP requests and returns XML with metadata about and keyword-in-context snippets of relevant resources in ranked order. Each returned record includes up to 13 Dublin Core metadata fields and the full-text snippet. The resource's permanent URL is included in the "dc:identifier" field. It may be used by the application to link users directly to the resource on the Digital Collections site, where users can view the entire digitized resource via integrated presentation software.

The Web service documentation contains detailed descriptions and examples of the parameters for keyword and fielded search requests as well as the structure of the XML output. The documentation also includes Information about the 13 Dublin Core metadata fields and how to highlight the keyword-in-context search terms.

The Web service is updated weekly. It is free of charge and does not require registration or licensing. The "Acceptable Use Policy" requires that users send no more than 85 requests per minute per IP address.

A complete list of NLM Web services and Application Programming Interfaces (APIs) can be found on the NLM APIs page.

By Brooke Dine
Reference and Web Services

**Last updated:** 25 March 2013

Digital Collections Web Service. NLM Technical Bulletin. 2013 Mar–Apr

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# PubMed for Librarians: Free Online Classes Open for Registration

Dennis S. PubMed for Librarians: Free Online Classes Open for Registration. NLM Tech Bull. 2013 Mar-Apr;(391):e2.

**2013 March 13** [posted]
**2013 March 29** [Editor's note added]
**2013 July 11** [Editor's note added]
**2014 April 16** [Editor's note added]

*[Editor's note added March 29, 2013: An additional suite of classes for Summer 2013 has been added.]*

*[Editor's note added July 11, 2013: Register now for sessions in December 2013, January 2014, or March 2014 at: http://nnlm.gov/ntcc/classes/schedule.html.]*

*[Editor's note added April 16, 2014: Additional May 2014 and August 2014 classes are available for registration at: http://nnlm.gov/ntcc/classes/schedule.html.]*

> *"Even though I have been using MESH for many years, I learned (or re-learned) new things. I understand the automatic explosion better now, and also was interested to find how to get to the definitions of the subheadings/qualifiers."*
>
> *"The instructor's pacing was perfect for me. I picked up a number of tips that I did not know existed. I especially like the pacing and now I will try to slow down and be conscious of pacing myself when I am teaching PubMed."*
>
> *"I appreciate this FREE class that I don't have to leave work and DRIVE to!"*
>
> *--Comments from "PubMed for Librarians" class participants*

Join the National Library of Medicine Training Center (NTC) for the free online class "PubMed for Librarians." Classes in April, June, and September 2013 are now open for registration.

The PubMed for Librarians class is divided into five segments (90 minutes each). Each segment is a synchronous online session that includes hands-on exercises and is worth 1.5 hours of MLA CE credit. Participants can choose any or all of the 5 segments that interest them.

The segments are as follows:

*Introduction to PubMed:* Attend this class to learn about the difference between PubMed and MEDLINE, how to run a PubMed search, assess your search retrieval, analyze search details, customize with My NCBI, discover and employ three ways to search for a known citation, and use the Clinical Queries search tool.

*MeSH (Medical Subject Headings):* Attend this class to learn about the NLM Medical Subject Headings (MeSH) database. We will talk about the 4 different types of MeSH terms and how searchers can benefit from using MeSH to build a search. We will investigate the structure of the MeSH database and look at the components of a MeSH record.

*Automatic Term Mapping (ATM):* Attend this class to learn about Automatic Term Mapping (ATM), the process that maps keywords from your PubMed search to the controlled vocabulary of the MeSH database. Learn why searching with keywords in PubMed can be an effective approach to searching. We will also look at the explosion feature, what is and is not included in Search Details and lastly we will explore how PubMed processes/handles a phrase.

*Building and Refining Your Search:* The class will focus on using some of the tools and features built into PubMed that are designed to help you search more effectively. We will explore the new Filters Sidebar and topic-specific subsets. We will use History, tools in the NLM Catalog, and the Index to build searches and explore topics.

*Customization - My NCBI:* Attend this class to learn about the advantages of creating a My NCBI account, managing and manipulating your My NCBI page content, identifying and differentiating available filters on PubMed's filter sidebar, selecting and setting up to 15 filters, and creating a custom filter.

Class space is limited, so register now at http://nnlm.gov/ntcc/classes/schedule.html.

PubMed for Librarians: Free Online Classes Open for Registration. NLM Technical Bulletin. 2013 Mar–Apr

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Questions? Contact Sharon Dennis, Assistant Director, National Library of Medicine Training Center, at Sharon.dennis@utah.edu or (800) 338-7657, press 2.

By Sharon Dennis
National Library of Medicine Training Center

# MeSH Unique Identifiers: Length Expanding to Ten Characters

**2013 March 06** [posted]
**2013 April 24** [Editor's note added]
**2014 May 05** [Editor's note added]

[Editor's Note: The length of the unique identifiers used for Descriptors, Qualifiers, and Supplementary Concept Records in the MeSH Vocabulary will expand to 10 characters on or about May 19, 2014.]

Due to the ever increasing number of concepts and terms in MeSH, it is necessary to increase the number of unique identifiers (UI) available for the MeSH vocabulary. Thus, the length of the unique identifier elements used in Descriptor, Qualifier, and Supplementary Concept Records will expand to 10 characters. Most UIs are currently 7 characters in length; one (the Concept UI) is currently 8 characters. The change to 10 characters will begin for unique identifiers created on and after April 15, 2013. *[Editor's note added April 24, 2013: The implementation of the 10-character unique identifiers has been postponed from April 15, 2013 to November 2013.]*

The format of existing unique identifiers will not be changed. For example: If D009710 is the last descriptor UI on April 15, then the next descriptor UI would be D000009711.

Examples:

| Record Type UI | Existing Unique Identifier Format | Future Unique Identifier Format |
| --- | --- | --- |
| Descriptor | D064418 | Dnnnnnnnnn |
| Qualifier | Q000941 | Qnnnnnnnnn |
| SCR | C578561 | Cnnnnnnnnn |

| Concept or Term UI | | |
| --- | --- | --- |
| Concept | M0581777 | Mnnnnnnnnn |
| Term | T837922 | Tnnnnnnnnn |

For users of the MeSH XML data, the XML elements affected are:

| | |
| --- | --- |
| <ConceptUI> | for M number |
| <DescriptorUI> | for D number |
| <QualifierUI> | for Q number |
| <SupplementalRecordUI> | for C (or SCR) number |
| <TermUI> | for T number |

By Chris Hui and Jacque-Lynne Schulman
MeSH Section