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New CMT File Available for Download

New CMT File Available for Download. NLM Tech Bull. 2015 Mar-Apr;(403):b15.

2015 April 27 [posted]

NLM is pleased to announce a new Convergent Medical Terminology (CMT) Release file from Kaiser Permanente (KP). This new release is an update of the Skin/Dermatology and Respiratory Problem List subset. There are 2,756 SNOMED CT concepts in the release, based on the January 31, 2014 International Release. The problem list is available for download from the UMLS Terminology Services (UTS) by UMLS licensees.

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NCBI Webinar: "The NCBI Minute: Finding Genomes and Annotations by Searching NCBI Assembly" on April 29, 2015

NCBI Webinar: "The NCBI Minute: Finding Genomes and Annotations by Searching NCBI Assembly" on April 29, 2015. NLM Tech Bull. 2015 Mar-Apr;(402):b14.

2015 April 24 [posted]

2015 June 04 [Editor's note added]

[Editor's Note: This is a reprint of an announcement published on the NCBI News page.]

[Editor's note added June 4, 2015: A recording of the Webinar is available.]

Wednesday, April 29, 2015, NCBI staff will show you how to quickly find a particular genome sequence by using FTP to access our Assembly database, which houses 25,000 annotated genomes.

The NCBI Minute is a series of short Webinars that give a brief introduction to a specific topic or NCBI tool. To see upcoming Webinars, as well as YouTube recordings and materials from past Webinars, please see the NCBI Webinars page.

- Registration: <https://attendeegotowebinar.com/register/2241676975542351106>
- Assembly: <http://www.ncbi.nlm.nih.gov/assembly>
- NCBI Webinars: <http://www.ncbi.nlm.nih.gov/home/coursesandwebinars.shtml>
- NCBI on YouTube: <https://www.youtube.com/user/NCBINLM/>

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NLM Resource Update: NLM Toxicology and Environmental Health Information Update

NLM Resource Update: NLM Toxicology and Environmental Health Information Update. NLM Tech Bull. 2015 Mar-Apr;(402):b13.

2015 April 24 [posted]

[Editor's Note: This is a reprint of an announcement published on Toxicology and Environmental Health, an e-mail announcement list available from the NLM Division of Specialized Information Services. To subscribe to this list, please see the NLM Toxicology and Environmental Health Information Email Updates page.]

Both versions of TOXMAP—classic and beta—now include the Toxics Release Inventory (TRI) 2013 National Analysis data, as well as recent cancer and disease mortality data from NCI SEER. This is the first version of the TOXMAP beta with health data, whereas mortality data in TOXMAP classic has been updated.

To view national county-level cancer and disease mortality data from 2007-2011 in TOXMAP beta, bring up the US Census & Health Data window and navigate to the Mortality tab. Two sub-tabs list cancer and disease mortality layers that can be overlaid on the map (one at a time).

TOXMAP maps the TRI chemicals reported to the EPA (Environmental Protection Agency), as required by the Emergency Planning and Community Right to Know Act (EPCRA).

A complete list of TRI chemicals required to be reported to the EPA can be found on their Web site.

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Indexes Tab Removed from *NLM Technical Bulletin* Navigation Bar

Indexes Tab Removed from *NLM Technical Bulletin* Navigation Bar. NLM Tech Bull. 2015 Mar-Apr;(403):b12

2015 April 21 [posted]

On April 21, 2015, the "Indexes" tab was removed from the *NLM Technical Bulletin* navigation bar. Please use the search box in the top right corner of every page to find articles and other content published from 1969 to present.

Articles and other content from 1969 - 1996 are available as PDF; from 1997 forward are available as HTML.

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NCBI Webinar "The NCBI Minute: Finding and Getting the Data You Want from NCBI in Less than Three Minutes – Introducing BioProject" on April 15, 2015

NCBI Webinar "The NCBI Minute: Finding and Getting the Data You Want from NCBI in Less than Three Minutes – Introducing BioProject" on April 15, 2015. NLM Tech Bull. 2015 Mar-Apr;(402):b11.

2015 April 13 [posted]

[Editor's Note: This is a reprint of an announcement published on the NCBI Announcements and Updates List, an e-mail announcement list available from the National Center for Biotechnology Information. To subscribe to this list, please see the [ncbi-announce -- NCBI announcements and updates page](#).]

On Wednesday, April 15, 2015, NCBI staff will show you how to use the BioProject database to quickly find data. When looking for research data using fairly broad search terms like "tuberculosis" or "mouse," BioProject is a great place to start. In this brief presentation, you will learn how to search for studies and quickly identify related PubMed-listed publications and experimental data, such as RNA-Seq datasets in the GEO database.

Date: Wednesday, April 15, 2015

Time: 9:45 AM - 9:55 AM EDT

Registration link: <https://attendee.gotowebinar.com/register/5904867089245135617>

The NCBI Minute is a series of short Webinars that give a brief introduction to a specific topic or NCBI tool. To see upcoming Webinars, as well as summaries, recordings (via YouTube) and related materials from past Webinars, please see the [NCBI Webinars page](#).

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NIH Issued Statement On Use Of dbGaP In The Cloud

NIH Issued Statement On Use Of dbGaP In The Cloud. NLM Tech Bull. 2015 Mar-Apr;(402):b10.

2015 April 09 [posted]

[Editor's Note: This is a reprint of an announcement published on NLM/NCBI List ncbi-announce, an e-mail announcement list available from the NLM/NCBI. To subscribe to this list, please see the ncbi-announce -- NCBI announcements and updates page.]

On Monday, April 6, 2015, the National Institutes of Health (NIH) announced that it is now allowing investigators to request permission to transfer controlled-access genomic and associated phenotypic data obtained from NIH-designated data repositories, like dbGaP, under the auspices of the NIH Genomic Data Sharing (GDS) policy to public or private cloud systems for data storage and analysis.

Please keep in mind that the responsibility for the security of the dbGaP data is assumed by each investigator and their associated institution who has been approved to access the data, not the cloud provider. To assist in this process, NIH has provided as much information as possible for PIs, institutional signing officials and the IT staff who will be supporting these projects.

The post "The Cloud, dbGaP and the NIH" on the NIH Data Science blog discusses the NIH position statement, the Genomic Data Sharing policy, and best practices, as well as NIH IT security requirements and policies.

* "The Cloud, dbGaP and the NIH" - NIH Data Science blog:

<https://nihdatascience.wordpress.com/2015/03/26/the-cloud-dbgap-and-the-nih/>

* The NIH Genomic Data Sharing (GDS) policy: <http://gds.nih.gov/03policy2.html>

* The NIH Best Practices for Controlled-Access Data Subject to the NIH GDS Policy:

http://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/GetPdf.cgi?document_name=dbgap_2b_security_procedures.pdf

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NLM Resource Update: National Library of Medicine Launches TOXinvaders

NLM Resource Update: National Library of Medicine Launches TOXinvaders. NLM Tech Bull. 2015 Mar-Apr;(402):b9.

2015 March 30 [posted]

[Editor's Note: This is a reprint of an announcement published on NLM-Tox-Enviro-Health-L, an e-mail announcement list available from the NLM Division of Specialized Information Services. To subscribe to this list, please see the NLM-TOX-ENVIRO-HEALTH-L Join, Leave, or Change Options page.]

The Division of Specialized Information Services (SIS) of the National Library of Medicine (NLM) has launched TOXinvaders, an environmental health and toxicology game for iPhone and iPad. It is available from the Apple Store.

TOXinvaders supports middle school science concepts pertaining to chemistry, the environment, and health. It can serve as an engaging classroom or homework activity for middle and high school students, as well as an entertaining learning activity for gaming aficionados of all ages. In the classroom environment, TOXinvaders works best as a supplement to NLM Tox Town, Environmental Health Student Portal, TOXMAP, and ChemIDplus Web sites.

The game consists of four fast-paced levels, in which a launcher is used to annihilate toxic chemicals falling from the sky and earn protective shield points by capturing "good chemicals." To move on to the next level, players must take a brief quiz about the chemicals. These dynamically generated tests provide an excellent opportunity to learn more about environmental health and toxicology from the game's chemical information sheet and from NLM Web sites. Quiz questions and answers can also serve as a starting point for classroom discussions, as well as for Tox Town, TOXMAP, and Environmental Health Student Portal activities and experiments.

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Table of Contents: 2015 MARCH–APRIL No. 403

NLM Resource Update: ToxLearn Module II Now Available

NLM Resource Update: ToxLearn Module II Now Available. NLM Tech Bull. 2015 Mar-Apr;(402):b8.

2015 March 30 [posted]

[Editor's Note: This is a reprint of an announcement published on NLM-Tox-Enviro-Health-L, an e-mail announcement list available from the NLM Division of Specialized Information Services. To subscribe to this list, please see the NLM-TOX-ENVIRO-HEALTH-L Join, Leave, or Change Options page.]

The National Library of Medicine (NLM) ToxLearn, Module II: Cells and Tissues: Injury and Repair, is now available. It offers an introduction to biological molecules, cells, tissues, and organs and to how they might be affected by toxicants. It also explains principles of cell damage and tissue repair and reviews physiological and morphological changes.

Created in partnership with the Society of Toxicology, ToxLearn is a multi-module online learning tool that provides an introduction to basic principles of toxicology. It can be used as a supplementary curriculum to a first-level undergraduate toxicology course and can assist users in interpreting search retrieval from NLM's TOXNET databases.

ToxLearn Module I: Introduction to Toxicology and Dose-Response, is available at <http://toxlearn.nlm.nih.gov/Module1.htm>.

ToxLearn Modules 1 and 2 update some of the information in the earlier Tox Tutor.

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PubMed Summary Display Changes

PubMed Summary Display Changes. NLM Tech Bull. 2015 Mar-Apr;(403):b7.

2015 March 25 [posted]

2015 March 26 [Editor's note added]

[Editor's note: These changes were implemented in PubMed on March 26, 2015.]

We will be removing the status tag line (for example, [PubMed - as supplied by publisher]; [PubMed - indexed for MEDLINE]) from the Summary display format to provide a less-cluttered PubMed results display.

See Figure 1 for an example of the new Summary display format. The status tag line will continue to appear in the PubMed Abstract and Abstract (text) displays.

[The impact of lipid-based nutrient supplement provision to pregnant women on newborn size in rural Malawi: a randomized controlled trial.](#)

Ashorn P, Alho L, Ashorn U, Cheung YB, Dewey KG, Harjunmaa U, Lartey A, Nkhoma M, Phiri N, Phuka J, Vosti SA, Zeilani M, Maleta K.

Am J Clin Nutr. 2015 Feb;101(2):387-97. doi: 10.3945/ajcn.114.088617. Epub 2014 Dec 10.

PMID: 25646337

[Related citations](#)

Figure 1: New PubMed Summary display format.

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NCBI Homepage Update: Action Buttons and Category Pages

NCBI Homepage Update: Action Buttons and Category Pages. NLM Tech Bull. 2015 Mar-Apr;(403):b6.

2015 March 12 [posted]

[Editor's Note: This is a reprint of an announcement published on the NCBI Announcements and Updates List, an e-mail announcement list available from the National Center for Biotechnology Information. To subscribe to this list, please see the [ncbi-announce](#) -- NCBI announcements and updates page.]

The NCBI homepage now has 6 new buttons on it:

- Submit
- Download
- Learn
- Develop
- Analyze
- Research

Each of these leads to an action page devoted to a particular set of services. These action pages will allow you to easily access the pages and resources you need to complete tasks. For instance, you can:

- Find information about the Entrez API,
- Find an upcoming NCBI webinar,
- Find an NCBI tool that designs PCR primers, and much more.

On the new action pages, you'll also see 6 categories in the header:

- Literature
- Health
- Genomes
- Genes
- Proteins
- Chemicals

These category pages highlight useful databases, tools and resources for each of the topics all in one place. If you follow us on LinkedIn, these categories will be familiar to you - we've used them as showcase pages to group our news stories and announcements by topic.

We've also included a blue Feedback button on the left side of the Download, Learn, Develop, and Analyze pages so that you can tell us what you think. We look forward to hearing your comments. Stay tuned to NCBI News and to our blog, NCBI Insights, for more information about the new homepage.

- * NCBI homepage: <http://www.ncbi.nlm.nih.gov/>
- * NCBI News: <http://www.ncbi.nlm.nih.gov/news/>
- * NCBI Insights: <http://ncbiinsights.ncbi.nlm.nih.gov/>

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Cancer Topic Searches Removed from the PubMed Special Queries Page

Cancer Topic Searches Removed from the PubMed Special Queries Page. NLM Tech Bull. 2015 Mar-Apr;(403):b5.

2015 March 12 [posted]

The Cancer Topic Searches link has been removed from the PubMed Special Queries (Directory of Topic-Specific PubMed queries) page. This action was taken because the National Cancer Institute (NCI) no longer maintains custom searches for the PubMed database.

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US Environmental Protection Agency 2015 TRI University Challenge

US Environmental Protection Agency 2015 TRI University Challenge. NLM Tech Bull. 2015 Mar-Apr;(403):b4.

2015 March 10 [posted]

The US Environmental Protection Agency (EPA), Office of Environmental Information, challenges academic institutions to propose innovative ways to utilize TRI data through the 2015 Toxics Release Inventory (TRI) University Challenge.

Anyone affiliated with an accredited academic institution is encouraged to apply. Selected project teams will serve as 2015 TRI University Challenge partners. The EPA is placing priority on projects that focus on Community Engagement, Pollution Prevention (P2) & Sustainability, and Turning Environmental Data into Understanding.

Please visit the 2015 TRI University Challenge Website to learn more. Questions can be sent to Caitlin Briere at briere.caitlin@epa.gov.

The Toxics Release Inventory (TRI), a resource of the US Environmental Protection Agency, 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.

The National Library of Medicine TOXNET Toxics Release Inventory (TRI) can be searched at:
<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?TRI>

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SNOMED CT ROA and Nursing Problem List Subsets Updated and Available For Download

SNOMED CT ROA and Nursing Problem List Subsets Updated and Available For Download. NLM Tech Bull. 2015 Mar-Apr;(403):b3.

2015 March 10 [posted]

Two SNOMED CT subsets have been updated and are available for download.

The SNOMED CT Route of Administration Subset (ROA) is a list of terms related to the location of administration for clinical therapeutics. The purpose of the ROA is to define SNOMED CT concepts which can be used in the Drug Listing section of Structured Product Labeling (SPL), or for documentation and encoding of clinical information regarding substance administrations. This subset version has been derived from the March 2015 US Edition of SNOMED CT.

The Nursing Problem List Subset of SNOMED CT is intended for use in patient problem lists, and is an output of the Metathesaurus that is based on nursing diagnosis concepts found within the Metathesaurus. The main purpose of the subset is to facilitate the use of SNOMED CT as the primary coding terminology for nursing problems used in care planning, problem lists or other summary level clinical documentation. This version has been derived from the March 2014 US Edition of SNOMED CT and 2014AA UMLS Metathesaurus.

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New US Edition of SNOMED CT and CORE Problem Subset Available

New US Edition of SNOMED CT and CORE Problem Subset Available. NLM Tech Bull. 2015 Mar-Apr;(403):b3.

2015 March 03 [posted]

The March 2015 release of the US Edition of SNOMED CT is now available for download. In addition to 839 new concepts specific to the US, the March US Edition of SNOMED CT also contains all content from the January 2015 International Release of SNOMED CT. The US Edition is the official source of SNOMED CT for use in US healthcare systems.

Please note, that similar to the International release, the US Edition RF1 and RF2 release files are now available as two separate downloads. The SNOMED CT RF2 to RF1 Conversion files and additional RF1 files can now be found on the SNOMED CT Permanent Package Downloads page.

Additionally, the updated Clinical Observations Recording and Encoding (CORE) Problem List Subset is now available for download. This subset is based on the January 2015 International Release of SNOMED CT and the 2014AB UMLS Release.

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Interactive Health Tutorials Removed from MedlinePlus

Interactive Health Tutorials Removed from MedlinePlus. NLM Tech Bull. 2015 Mar-Apr;(403):b1.

2015 March 03 [posted]

As of February 27, MedlinePlus no longer provides a library of interactive tutorials. The decision was based on trends we observed from our users and our desire to provide information that most closely aligns with user needs. We welcome your feedback about how you think MedlinePlus information should be presented and what type of content is missing. Send your suggestions or feedback to us through the Contact Us form.

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New Name for PubMed Related Citations Discovery Tool

Canese K. New Name for PubMed Related Citations Discovery Tool. NLM Tech Bull. 2015 Mar-Apr;(403):e6.

2015 April 22 [posted]

2015 June 04 [Editor's note added]

[Editor's note: This change was implemented in PubMed on June 3, 2015.]

To be clearer, the PubMed "Related citations" feature will soon be renamed to "Similar articles." User interviews revealed confusion about the definition of the "Related citations" listed in the results set. "Similar articles" was chosen because "Related citations" is ambiguous. There are several types of relationships that articles may have. The algorithm to generate the results has not been modified.

The link name will be updated on the Summary results (see Figure 1).



[Receptor Reserve Moderates Mesolimbic Responses to Opioids in a Humanized Mouse Model of the OPRM1 A118G Polymorphism.](#)
1. Elliott Robinson J, Vardy E, DiBerto JF, Chefer VI, White KL, Fish EW, Chen M, Gigante E, Krouse MC, Sun H, Thorsell A, Roth BL, Heilig M, Malanga CJ.
Neuropsychopharmacology. 2015 Apr 16. doi: 10.1038/npp.2015.109. [Epub ahead of print]
PMID: 25881115
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[Antipsychotic-Like Effect of the Muscarinic Acetylcholine Receptor Agonist BuTAC in Non-Human Primates.](#)
2. Andersen MB, Croy CH, Dencker D, Werge T, Bymaster FP, Felder CC, Fink-Jensen A.
PLoS One. 2015 Apr 16;10(4):e0122722. doi: 10.1371/journal.pone.0122722. eCollection 2015.
PMID: 25880220
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[Rotigotine transdermal system as add-on to oral dopamine agonist in advanced Parkinson's disease: an open-label study.](#)
3. Kim JM, Chung SJ, Kim JW, Jeon BS, Singh P, Thierfelder S, Ikeda J, Bauer L; Asia Pacific Rotigotine Add-on Study Group.
BMC Neurol. 2015 Feb 28;15(1):17.
PMID: 25879416
[Similar articles](#)

Figure 1: PubMed Summary Display.

The Abstract display discovery tool title will also be renamed (see Figure 2).

Abstract ▾ Send to: ▾

J Biomed Sci. 2015 Feb 11;22(1):13.

Effects of human blood red cells on the haemolytic capability of clinical isolates of *Candida tropicalis*.

Furlaneto MC¹, Favero D², França EJ³, Furlaneto-Maia L⁴.

⊕ Author information

Abstract

BACKGROUND: *Candida tropicalis* is an increasingly important human pathogen associated with high mortality rates; however, little is known regarding the virulence properties of *C. tropicalis*, particularly the production of haemolytic factor. Although *Candida* spp may acquire iron from human blood red cells (RBCs) by producing a haemolytic factor that promotes cell lyses, at present there are no data regarding the effect of RBCs on the production of haemolytic molecules. The present study was undertaken to evaluate the role of human red blood cells on the production haemolytic factor by *C. tropicalis*; in addition, the transcription levels of a putative haemolysin-like protein gene (HLPT) were also analysed.

RESULTS: *C. tropicalis* isolates produced a haemolytic factor following growth in either the absence or presence of RBCs; however, distinct levels of haemolysis were observed, with 60% of the isolates exhibiting a significant increase in the production of haemolytic factor when grown in the presence of human RBCs. All isolates in which the putative HLPT gene was up-regulated in presence of human RBCs, ranging from 1.044 to 6.965-fold, also exhibited higher haemolytic activity following growth in the presence of RBCs compared to that observed in the absence of RBCs.

CONCLUSIONS: We propose that human RBCs may induce changes in the phenotypic expression of haemolytic factor and in transcriptional levels of the putative *C. tropicalis* HLPT gene in an isolate-dependent fashion.

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Production of haemolytic factor by clinical isolati [Mycoses. 2011]

Haemolytic and proteinase activities in clini [Mycoses. 2011]

Phenotypic switching in *Candida tropicalis*: assc [Med Mycol. 2014]

Review *Candida* and candidaemia. ξ [Dan Med J. 2013]

Review Hereditary non-spherocytic [Br J Haematol. 2001]

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Figure 2: PubMed Abstract Display.

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National Center for Biotechnology Information

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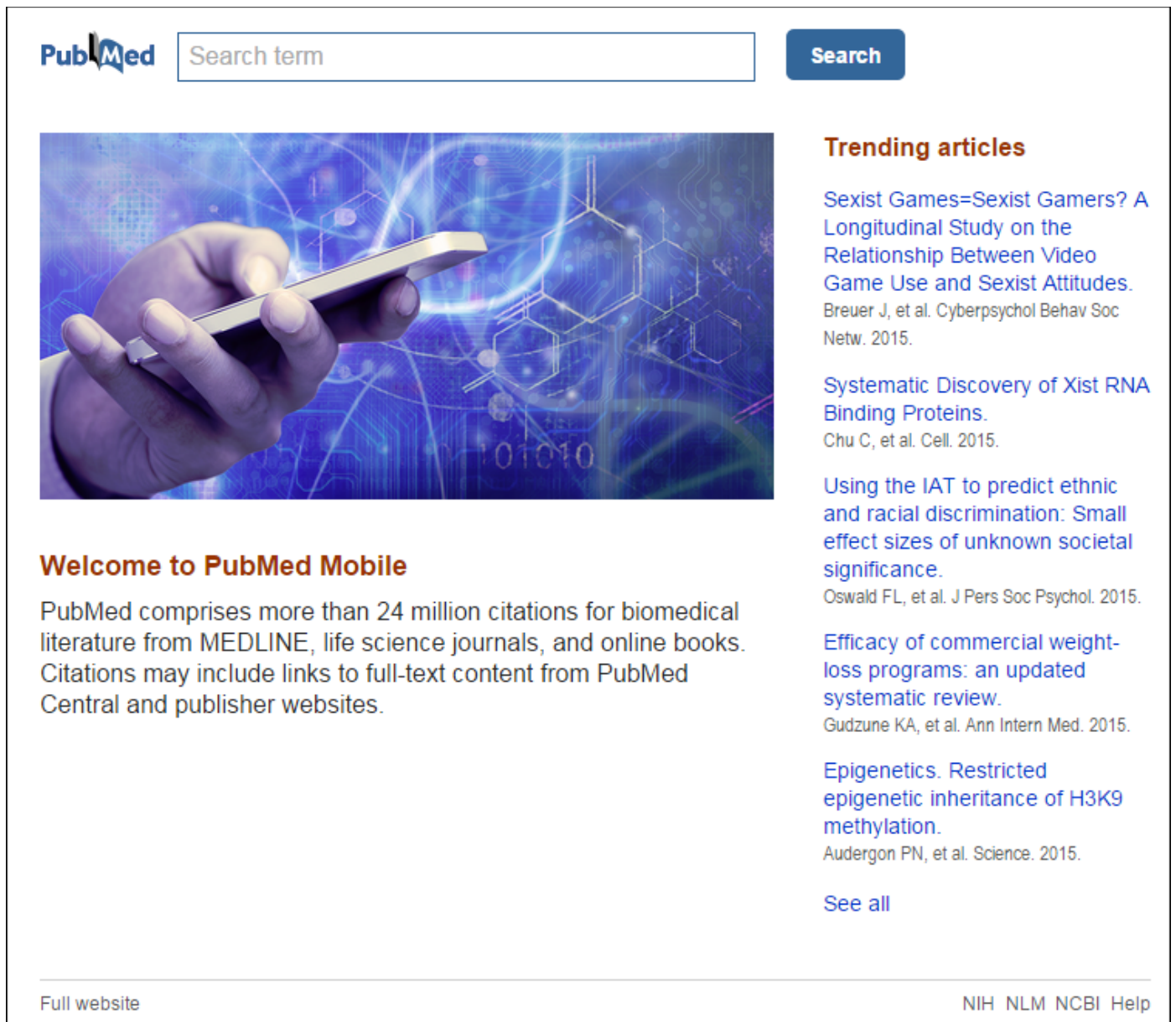
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PubMed Mobile Update

Canese K. PubMed Mobile Update. NLM Tech Bull. 2015 Mar-Apr;(403):e5.

2015 April 16 [posted]

PubMed Mobile has been updated with a number of styling modifications and additional enhancements including a "Trending articles" feature on the homepage (see Figure 1).



The screenshot displays the PubMed Mobile homepage. At the top left is the PubMed logo. To its right is a search bar with the placeholder text "Search term" and a blue "Search" button. Below the search bar is a large image of a hand holding a smartphone, with a blue and purple digital background featuring molecular structures and binary code. To the right of the image is a "Trending articles" section with three article titles and their authors/publications. Below the image is a "Welcome to PubMed Mobile" section with a paragraph of text. At the bottom left is a link for "Full website" and at the bottom right is a link for "NIH NLM NCBI Help".

PubMed Search term Search

Trending articles

[Sexist Games=Sexist Gamers? A Longitudinal Study on the Relationship Between Video Game Use and Sexist Attitudes.](#)
Breuer J, et al. *Cyberpsychol Behav Soc Netw.* 2015.

[Systematic Discovery of Xist RNA Binding Proteins.](#)
Chu C, et al. *Cell.* 2015.

[Using the IAT to predict ethnic and racial discrimination: Small effect sizes of unknown societal significance.](#)
Oswald FL, et al. *J Pers Soc Psychol.* 2015.

[Efficacy of commercial weight-loss programs: an updated systematic review.](#)
Gudzune KA, et al. *Ann Intern Med.* 2015.

[Epigenetics. Restricted epigenetic inheritance of H3K9 methylation.](#)
Audergon PN, et al. *Science.* 2015.

[See all](#)

Full website NIH NLM NCBI Help

Figure 1: PubMed Mobile homepage with "Trending articles."

Summary results now include the "Related searches" discovery tool as well as sort parameters and more filter selections (see Figure 2). Discovery tools display below the results on mobile devices with smaller screen sizes.

The screenshot shows the PubMed mobile interface for a search on "multiple sclerosis". At the top left is the PubMed logo. A search bar contains the text "multiple sclerosis" and a blue "Search" button is to its right. Below the search bar, there are two main sections: filters and related searches. The filter section is a dropdown menu with a "Done" button. It is currently open, showing categories: "ARTICLE TYPES" (with sub-options: Books and documents, Clinical trials, Meta-analysis, Randomized controlled trials, Review articles, Systematic reviews), "TEXT AVAILABILITY" (with sub-options: Free full text, Full text), and "PUBLICATION DATES" (with sub-options: 5 years, 10 years). At the bottom of the filter menu are "Use as default" and "Reset" options. To the right of the filter menu is a "SORT: Most recent" dropdown menu. Below the filter and sort menus, the search results are displayed. The first result is "Activation of Cannabinoid CB2 Receptors Reduces Hyperalgesia in an Experimental Autoimmune Encephalomyelitis Mouse Model of Multiple Sclerosis." by Fu W, et al. Neurosci Lett. 2015. The second result is "Correction to Imidazol-1-ylethylindazole Voltage-Gated Sodium Channel Ligands Are Neuroprotective during Optic Neuritis in a Mouse Model of Multiple Sclerosis." by Browne L, et al. J Med Chem. 2015. The third result is "Alemtuzumab for the treatment of multiple sclerosis." labeled as a "Review article". To the right of the search results is a "Related searches" section with the following links: "multiple sclerosis review", "progressive multiple sclerosis", "cells multiple sclerosis", "therapy multiple sclerosis", and "treatment multiple sclerosis".

Figure 2: PubMed Mobile results page with filter selections displayed.

When you click on the abstract "Show full citation" link (see Figure 3) you will see the citation, author(s), and affiliation details (see Figure 4).

[↓ Full text](#)

Anti-inflammatory genes associated with multiple sclerosis: a gene expression study.

Perga S, et al. J Neuroimmunol. 2015.

[Show full citation](#)


Abstract

Multiple sclerosis (MS) is an autoimmune inflammatory disease of the central nervous system caused by a complex interaction between multiple genes and environmental factors. HLA region is the strongest susceptibility locus, but recent huge genome-wide association studies identified new susceptibility genes. Among these, BACH2, PTGER4, RGS1 and ZFP36L1 were highlighted. Here, a gene expression analysis revealed that three of them, namely BACH2, PTGER4 and ZFP36L1, are down-regulated in MS patients' blood cells compared to healthy subjects. Interestingly, all these genes are involved in the immune system regulation with predominant anti-inflammatory role and their reduction could predispose to MS development.

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PMID 25670004 [PubMed - indexed for MEDLINE]

Full text

 [Full text from provider](#) (Elsevier Science)

Related citations

New candidates for CD4 T cell pathogenicity in experimental neuroinflammation and multiple sclerosis.

Hoppmann N, et al. Brain. 2015.

Genes associated with multiple sclerosis: 15 and counting.

Habek M, et al. Expert Rev Mol Diagn. 2010.

The role of non-HLA single nucleotide polymorphisms in multiple sclerosis susceptibility.

Review article

Bahreini SA, et al. J Neuroimmunol. 2010.

Multiple sclerosis risk variant HLA-DRB1*1501 associates with high expression of DRB1 gene in different human populations.

Alcina A, et al. PLoS One. 2012.

[Multiple sclerosis--a disease with complex genetics].

Review article

Myhr KM, et al. Tidsskr Nor Laegeforen. 2003.

[See all](#)

Figure 3: Abstract display with "Show full citation" link.

[↓ Full text](#)**Anti-inflammatory genes associated with multiple sclerosis: a gene expression study.**Perga S, et al. *J Neuroimmunol.* 2015.**Authors**Perga S¹, Montarolo F², Martire S², Berchiolla P³, Malucchi S⁴, Bertolotto A².**Author information**

¹ Neuroscience Institute Cavalieri Ottolenghi (NICO), Orbassano, TO, Italy; University Hospital San Luigi Gonzaga, Neurobiology Unit, Neurologia 2 - CReSM (Centro Riferimento Regionale Sclerosi Multipla), Orbassano, TO, Italy. Electronic address: simona.perga@unito.it.

² Neuroscience Institute Cavalieri Ottolenghi (NICO), Orbassano, TO, Italy; University Hospital San Luigi Gonzaga, Neurobiology Unit, Neurologia 2 - CReSM (Centro Riferimento Regionale Sclerosi Multipla), Orbassano, TO, Italy.

³ Department of Clinical and Biological Sciences, University of Turin, Torino, TO, Italy.

⁴ University Hospital San Luigi Gonzaga, Neurobiology Unit, Neurologia 2 - CReSM (Centro Riferimento Regionale Sclerosi Multipla), Orbassano, TO, Italy.

Citation

J Neuroimmunol. 2015 Feb 15;279:75-8. doi: 10.1016/j.jneuroim.2015.01.004. Epub 2015 Jan 21.

Abstract

Multiple sclerosis (MS) is an autoimmune inflammatory disease of

Related citations

[New candidates for CD4 T cell pathogenicity in experimental neuroinflammation and multiple sclerosis.](#)

Hoppmann N, et al. *Brain.* 2015.

[Genes associated with multiple sclerosis: 15 and counting.](#)

Habek M, et al. *Expert Rev Mol Diagn.* 2010.

[The role of non-HLA single nucleotide polymorphisms in multiple sclerosis susceptibility.](#)

Review article

Bahreini SA, et al. *J Neuroimmunol.* 2010.

[Multiple sclerosis risk variant HLA-DRB1*1501 associates with high expression of DRB1 gene in different human populations.](#)

Alcina A, et al. *PLoS One.* 2012.

[\[Multiple sclerosis--a disease with complex genetics\].](#)

Review article

Myhr KM, et al. *Tidsskr Nor Laegeforen.* 2003.

[See all](#)

Figure 4: Abstract display with "Show full citation" data displayed.

When you click an author name link from the "Show full citation" display (see Figure 4) the results display using a ranking algorithm (see Figure 5).

FILTER: None

SORT: Author

Search Results 10 items

[Anti-inflammatory genes associated with multiple sclerosis: a gene expression study.](#)

Perga S, et al. J Neuroimmunol. 2015

[Full text](#)

[Monocytes and CD4+ T cells contribution to the under-expression of NR4A2 and TNFAIP3 genes in patients with multiple sclerosis.](#)

Navone ND, et al. J Neuroimmunol. 2014

[Full text](#)

[Loss of braking signals during inflammation: a factor affecting the development and disease course of multiple sclerosis.](#)

Gilli F, et al. Arch Neurol. 2011

[Full text](#)

[Effects of isoxazolo-pyridinone 7e, a potent activator of the Nurr1 signaling pathway, on experimental autoimmune encephalomyelitis in mice.](#)

Montarolo F, et al. PLoS One. 2014

[Full text](#)

[Acute-phase proteins investigation based on lectins affinity capture prior to 2-DE separation: application to serum from multiple sclerosis patients.](#)

Robotti A, et al. Electrophoresis. 2010

[Full text](#)

Figure 5: Results displayed using a ranking algorithm.

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Health Literacy Information Page and Search Updated

Zorn M, Wendling D. Health Literacy Information Page and Search Updated. NLM Tech Bull. 2015 Mar-Apr;(403):e4.

2015 April 15 [posted]

NLM updated the MEDLINE/PubMed Search and Health Literacy Information Resources page and its preformulated Health Literacy Special Query to keep pace with the growing body of relevant literature. The Health Literacy Special Query now retrieves additional citations to articles about numeracy, comprehension of informed consent, and health insurance comprehension.

Numeracy, informed consent, and health insurance comprehension are three aspects of health literacy researched with funding from the NIH. Linda Gynsberg described the attributes of numeracy at the July 2013 Institute of Medicine Health Literacy and Numeracy: A Workshop quoting the Cockcroft Committee attributes of being numerate. Sometimes called Quantitative Literacy (QL) or Quantitative Reasoning (QR), numeracy involves skills needed to select a health insurance plan, choose treatments, and understand medication instructions. MEDLINE/PubMed may contain citations to articles that discuss numeracy skills of clinicians—physicians, nurses, and other health professionals who must communicate with patients and the public.

Informed consent comprehension is of great interest to health literacy advocates and researchers who are concerned with how effectively health care providers communicate disease and treatment risks and benefits to patients. Among the more than 16,000 citations to articles with Informed Consent as a major descriptor, many citations don't explicitly use the phrase "health literacy," but are conceptually tied to it. For example, the updated search now retrieves the article *Informed consent for sacrocolpopexy: is counseling effective in achieving patient comprehension?* Investigating the ability of consumers to understand and navigate health insurance options and benefits and how this impacts use of health services and health outcomes is another area of research currently funded (for example, see *Preparedness of Americans for the Affordable Care Act*).

The dynamic MEDLINE/PubMed health literacy search retrieves more than 8,000 citations to English language journal articles related to Health Literacy. We encourage you to use PubMed filters to limit to particular years, research or publication types. To limit citations to a particular subject (such as "decision making") use the Advanced Search features (see *PubMed Help for Advanced Search*).

The selected resources on the right side of the MEDLINE/PubMed Search and Health Literacy Information Resources page includes new links, such as:

- The Culture Framework for Health: An integrative approach for research and program design and evaluation (OBSSR, NIH, 2015, PDF version)
- Measuring Health Insurance Literacy: A Call to Action. A Report from the Health Insurance Literacy Expert Roundtable of Consumers Union (2012, PDF version)
- ACOG Health Literacy Committee Opinion Number 585 (February 2014)
- Always Use Teach-back! training toolkit (IHS Center for Clinical Transformation, Health Literacy Iowa and Des Moines)
- 2015 Health Literacy Annual Research Conference (updated page for the HARC VII Conference)

We welcome feedback on the Health Literacy Information page. Send your comments to NLM Customer Service.

By Marcia Zorn and Dan Wendling
Reference and Web Services

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NLM @ MLA - 2015

Zipser J. NLM @ MLA - 2015. NLM Tech Bull. 2015 Mar-Apr;(403):e3.

2015 April 13 [posted]

The Annual Meeting of the Medical Library Association (MLA) will be held May 15-20, 2015 at the Austin Convention Center in Austin, TX. Attendees are invited to visit the NLM exhibit booth #419 (May 16-19) 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. All presentations are recorded and made available on the NLM Web site shortly after the meeting.

Mark Your MLA Calendars

Friday, May 15 (9:00 am – 5:30 pm)

2015 Annual Meeting of the Regional Medical Libraries and Centers

Location: Austin Convention Center, various rooms

See article [Updated on April 17, 2015] with further information including the agenda and room locations.

Tuesday, May 19 (10:30 am – 11:25 am)

NLM Update

Location: Austin Convention Center, Level Four, Ballroom D

Speakers:

Betsy Humphreys, Acting Director

Joyce Backus, Associate Director for Library Operations

NLM Theater Schedule, Booth 419

Recordings of the NLM Theater Presentations are available.

Mobile/Printer friendly version of the NLM Theater schedule is available.

Sunday, May 17

Noon	BibFrame & MeSH RDF
12:30 pm	Saturday Morning Revisited: K-12 Environmental Health Animations & Games
1:00 pm	Community Engagement with National Library of Medicine Resources
1:30 pm	Hosting NLM Traveling Exhibitions: Nuts & Bolts
2:00 pm	MedlinePlus: Responsive Design
2:30 pm	Arming Librarians on the Front Line as Disaster Information Specialists
3:00 pm	LinkOut! A user's view into capacity building & technical assistance
3:30 pm	PubMed Update
4:00 pm	PubMed Commons & Journal Clubs

Monday, May 18

10:00 am	PubMed Update
10:30 am	Public Access, NIHMS, & PMC
11:00 am	My NCBI Update: SciENcv & My Bibliography
11:30 am	PubMed Health Update
1:30 pm	HSRProj: Easier Searching, Better Research
2:00 pm	Hosting NLM Traveling Exhibitions: Nuts & Bolts
2:30 pm	Saturday Morning Revisited: K-12 Environmental Health Animations & Games
3:00 pm	PubMed Commons & Journal Clubs
3:30 pm	PubMed Update

4:00 pm LinkOut! A user's view into capacity building & technical assistance

Tuesday, May 19

10:00 am Arming Librarians on the Front Line as Disaster Information Specialists
11:30 am MedlinePlus: Responsive Design
Noon Community Engagement with National Library of Medicine Resources
12:30 pm HSRProj: Easier Searching, Better Research
1:00 pm BibFrame & MeSH RDF
1:30 pm PubMed Health Update
2:00 pm My NCBI Update: SciENcv & My Bibliography
2:30 pm Public Access, NIHMS, & PMC

View Additional Pre-Recorded Presentations on the NLM Web Site:

A Fresh Look at SIS Favorites, Laura Bartlett, Specialized Information Services (25 minutes)

MeSH on Demand, Dan Cho, Medical Subject Headings (12 minutes)

Open-i, Dina Demner Fushman, Lister Hill Center for Biomedical Communications (18 minutes)

Policy Updates in Trial Registration and Results Reporting, Rebecca Williams, ClinicalTrials.gov (22 minutes)

Semantic MEDLINE: An Advanced Information Management Application for Biomedicine, Marcelo Fiszman, Lister Hill Center for Biomedical Communications (16 minutes)

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

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Intramural Funding Designation in the MEDLINE/PubMed Grant Number Field

Funk KM, Knecht LS. Intramural Funding Designation in the MEDLINE/PubMed Grant Number Field. NLM Tech Bull. 2015 Mar-Apr;(403):e2.

2015 April 01 [posted]
2015 April 08 [Editor's note added]
2015 June 12 [Editor's note added]
2015 August 27 [Editor's note added]

[Editor's note: On April 8, 2015, the title of this article was changed to clarify the meaning.]

[Editor's note, June 12, 2015: For updated information on intramural funding designations, please see Granting Organization Designations: Addition of Intramural NIST as a Funding Source and NCCAM Name Change.]

[Editor's note, August 27, 2015: Additional information available in the article, Intramural NIH Research Support: Status of Publication Type [PT] and Grant Number [GR] Elements.]

The National Library of Medicine (NLM) is updating the format of NIH intramural funding in the Grant Number (GR) field found in MEDLINE/PubMed records. Intramural funding is associated with articles in which the research is performed by employees of NIH. This new format makes intramural support for published articles clearer to users by including "Intramural NIH HHS" in the GR string.

Currently, two conventions are used in the GR field to indicate NIH Intramural research support:

1. An official Z prefix grant number, and
2. An unofficial Z99 prefix grant number (introduced by NLM several years ago).

The Z99 notation was added to the Grant Number string for PubMed records with NIH intramural support in cases where the manuscript was deposited in the NIH Manuscript Submission (NIHMS) system. The Z strings overlap with the Publication Type (PT) "Research Support, N.I.H., Intramural" for MEDLINE-indexed articles. For non-MEDLINE papers, the grant occurrence is the primary indicator of intramural support in PubMed.

However, the Z99 notation is not intuitive and few people know what it represents. As a result, we are transitioning from relying exclusively on the Z project number for identifying NIH intramural support to an explicit phrase in the funding agency name.

For example, the old GR string:

Z99 EY999999/EY/NEI NIH HHS/United States

...will be replaced with a new GR string:

Z99 EY999999/Intramural NIH HHS/United States

PubMed users who wish to search at a more granular level than "Intramural NIH" will still be able to use the 2-letter NIH Institute & Center (IC) code in the Z project number, as available. Using the example above, this PubMed search:

ey [gr]

...will still retrieve PMID 25218043 that initially had this GR string:

Z99 EY999999/EY/NEI NIH HHS/United States

NLM has been using the new intramural GR string format for prospective citations for which the data come from the NIHMS for a short time now. This updated intramural format is effective for all retrospective citations, effective March 26, 2015. NLM is also investigating how we might synchronize the GR Intramural NIH indication with the Publication Type value of "Research Support, N.I.H., Intramural." Right now, both should be searched for

comprehensive retrieval since 2005; for example:

intramural nih [gr] OR research support, n.i.h., intramural [pt]

Going forward, the same format for denoting intramural support will be used for other agencies that are identified as funders in a PubMed record as the information becomes available. To date, the agencies, other than NIH, with formal policy announcements about participating in the NIHMS and that will have an intramural designation include:

Intramural AHRQ HHS
Intramural CDC HHS
Intramural FDA HHS
Intramural VA

Please refer to the NLM Web resource page for explanations for both the grant number 2-letter codes and the agency acronyms.

By Kathryn M. Funk
National Center for Biotechnology Information
and
Lou Wave S. Knecht
Bibliographic Services Division

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NLM @ MLA: 2015 Annual Meeting of the Regional Medical Libraries and Centers

2015 Annual Meeting of the Regional Medical Libraries and Centers. NLM Tech Bull. 2015 Mar-Apr;(403):e1.

2015 March 27 [posted]

2015 April 17 [Room numbers updated]

The NLM National Network Office of the National Network of Libraries of Medicine (NN/LM) invites you to the 2015 Annual Meeting of the Regional Medical Libraries (RML) and Centers. Come and learn about the work and accomplishments of the Network, get your Cooperative Agreement questions answered, or just catch-up with fellow medical librarians.

When: Friday, May 15, 2015

Where: Austin Convention Center, 500 E Cesar Chavez St, Austin, TX 78701

Time: 9:00 am–5:30 pm (CDT)

Agenda:

[Room numbers updated on April 17, 2015]

9:00 am–12:00 pm: Breakout Sessions

9:00 am–10:15 am: Room 15, Consumer Health Coordinators

9:00 am–10:15 am: Room 17AB [Updated], Outreach Coordinators

10:30 am–12:00 pm: Room 17AB [Updated], Joint Session Consumer Health and Outreach Coordinators

9:00 am–12:00 pm: Room 14, Directors and Associate Directors **[CLOSED SESSION]**

12:00 pm–1:00 pm: Lunch on your own

1:00 pm–1:15 pm: Room 17AB [Updated], NLM Update, Joyce Backus, Associate Director for Library Operations, NLM

1:15 pm–3:00 pm: Room 17AB [Updated], RML and Center Highlights from 2011-2015

3:00 pm–3:30 pm: BREAK

3:30 pm–5:30 pm: Room 17AB [Updated], Applying for Regional Medical Libraries Cooperative Agreements (UG4) Q&A session with NLM Extramural Program [This session will be recorded.]

5:30 pm: *Adjourn*

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