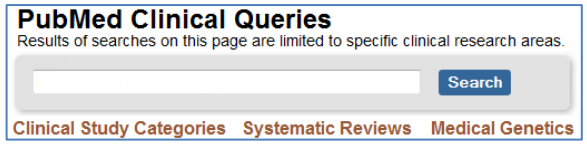
MeSH Database

PubMed MEDLINE articles are indexed using a powerful vocabulary called Medical Subject Headings (MeSH). Use the MeSH Database to identify appropriate MeSH terms for searches.

Use the drop-down search menu to access the **MeSH Database**. Search for a particular term or concept. Click on the desired term (when multiple items are retrieved) to view that term and to select subheadings and other options. Then click on the **Add to Search Builder** button on the right side of the screen. Click the **Search PubMed** button to complete the search after adding all or several selected search terms.

Clinical Queries

PubMed Clinical Queries makes it easy to find articles that report applied clinical research. Click on the link from the PubMed homepage, then enter a search term in the box. Click the **Search** button. Click "See all" at the bottom of the page to return to PubMed.



Clinical Study Categories displays results by diagnosis, etiology, therapy, etc. Use the drop-down menus to change the category or scope.

Systematic Reviews displays citations identified as systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, and guidelines.

Medical Genetics displays citations focused on diagnosis, management, genetic counseling, and related topics. "All" or a specific topic may be selected from the drop-down menu.

Printing, E-mailing, Downloading Results

After selecting citations (e.g. from checked boxes or Clipboard), use **Display Settings** to identify a format and print from the browser.

Alternatively, select from the **Send To** menu: **File** saves a downloadable file; **E-mail** offers formatting options and. **Citation Manager** creates a file in the MEDLINE format for download into citation management software.

My NCBI

PubMed's **My NCBI** feature stores both search strategies and citations collections, provides automatic e-mail updates of stored searches, and sets personal preferences. Register for **My NCBI** by creating a User Name and Password.

Accessing Full-Text

Many PubMed citations offer links to the full-text of article through **PMC** (a free digital archive of life sciences journal literature), to library holdings and to publisher websites. **Loansome Doc** allows registered users to order copies of articles from a medical library. Contact your librarian for details or call your Regional Medical Library at **800-338-7657**.

Assistance and Training

Click on the **Help** link or on **PubMed Tutorials** from the PubMed homepage.

Funded under contract awarded by the DHHS, NIH, National Library of Medicine, and developed and updated by the NN/LM staff. Revised: January 2014. This resource is freely available at: **http://nnlm.gov/training/resources/pmtri.pdf**

U.S. National Library of Medicine

PubMed BASICS

PubMed® is the U.S. National Library of Medicine's (NLM) premiere search system for health information. It is available *free* on the Internet at: **http://pubmed.gov.**

PubMed Content

Over 23.5 million citations including:

- **Publisher supplied citations** that will be analyzed to receive full indexing for MEDLINE if they are biomedical in nature
- **In-process citations** that have not yet been analyzed and indexed for MEDLINE®
- Fully **Indexed for MEDLINE** citations of articles from over 5600 regularly indexed journals; MEDLINE is 90% of PubMed.

PubMed Features

- Sophisticated search capabilities, including spell checker, Advanced Search Builder, and special tools for searching for clinical topics
- Assistance in finding search terms using the MeSH (Medical Subject Heading) database of MEDLINE's controlled vocabulary
- Ability to store citation collections and to receive email updates from saved searches using PubMed's My NCBI
- Links to full-text articles, to information about library holdings, to other NLM databases and search interfaces

The National Network of Libraries of Medicine® (NN/LM), an outreach program of NLM™, provides assistance and training nationwide. To find a local library, please call 800-338-7657 or go to **http://nnlm.gov/members**

Choose additional filters Display Settings: Summary, 20 per page, Sorted by Recently Added Send to: Filters: Manage Filters

PubMed Searching

To search PubMed, type a word or phrase into the query box (e.g., a subject, author and/or journal). Then click on the **Search** button or press the Enter key. Combine search terms with connector words: "AND," "OR," or "NOT" using upper case letters.

PubMed offers alternative searching options: The **Auto Suggest** drop-down menu appears when entering words; and a **Titles with your search terms** option may appear after a search.

PubMed displays a list of **Results** in Summary format after clicking on the **Search** button. To retrieve more information about citation(s), use the **Display Settings** link to change how the results are formatted, sorted and displayed.

Filters are available in the left navigation bar and may be used to limit or focus searches. Click on a term to activate or deactivate the filter. Multiple filters may be selected.

Article types clear
✓ Clinical Trial Example of an active filter.

Filters activated: published in the last 5 years Clear all

The **Filters activated** message appears above the search results list and these limits remain in effect until removed or cleared.

To reveal additional filter options, click the **Choose additional filters** or **more** links. Check desired selections then click the **Show** button.

Search details, located in the right navigation column, provides information on how PubMed ran a search. PubMed looks first for the entire word or phrase as a MeSH term, then for journal titles, then authors. PubMed also searches "All Fields" for the term. **Search details** shows how PubMed maps terms to MeSH headings and subheadings. Changes to the search may be made in the Details box; click **Search** to run the updated search strategy.

Advanced

The Advanced link provides two options to refine a search: Builder and History.

With **PubMed Advanced Search Builder**, create a search using Boolean operators. Apply a specific field to the term by using the drop-down menu. The **Show index list** displays the search field index and the number of citations for each term. Multiple terms selected from the Index are "OR"ed together.

History tracks and numbers search statements. Click on the numbered link to view a menu of options to combine search statements into a new search with AND, OR, or NOT. The search may also be run, deleted, examined in Details, or saved in My NCBI.

The **More Resources** tab at the top of the page offers additional searching quick links to the MeSH database, Single Citation Matcher, and to Clinical and Topic-Specific Queries.

Related Citations

This helpful feature links to citations that are similar to the one selected. Click on the **Related citations** link under the PMID or select **Related citations in PubMed** in the right navigation column when examining a single citation.

Display Settings: Summary, Sorted by Recently Added Send to:
Results: 2
The keratocyte: corneal stromal cell with variable repair phenotypes.
1. West-Mays JA, Dwivedi DJ.
Int J Biochem Cell Biol. 2006;38(10):1625-31. Epub 2006 Apr 3. Review.
PMID: 16675284 [PubMed - indexed for MEDLINE] Free PMC Article
Related citations Item in clipboard

Clipboard

The **Clipboard** feature stores selected citations from one or more searches for eight hours. Select citations by clicking the check box next to them; from the **Send to** menu, select Clipboard; then click the **Add to Clipboard** button. Click on the **Clipboard** link to view citations. Permanently store citations in PubMed **My NCBI Collections,** also accessed from the **Send to** menu.

Sensors

Sensors display results in a shaded area above the regular PubMed search results.

- **Citation Sensor:** matches search terms with citation elements (e.g. blood choi 2009)
- **Gene Sensor:** identifies gene symbols and links to additional gene information (e.g. CFTR)