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## PubMed Self-Study Material: Quick and Efficient Search for Medical Literature



GEORG-AUGUST-UNIVERSITÄT  
GÖTTINGEN

# Introduction

- Imagine you are planning to write your doctoral thesis on „Diabetes“ and you are looking for suitable literature.
- This self-study material presents three strategies that will make your literature search in PubMed quick and efficient:
  1. Quick full-text search
  2. Key-word search with Medical Subject Headings (MeSH)
  3. Full-text search in Advanced Search Builder



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# General Information

- What is PubMed?
    - The largest database of medical literature in the world
    - Free literature search system of the U.S. NLM (National Library of Medicine)
  - PubMed retrieves journal articles
  - With PubMed you will find:
    - References since 1948 (for older literature refer to the printed version, the „Index Medicus“)
    - Bibliographic information, such as authors, titles etc.
    - In most cases, abstracts, i.e. short summaries of the articles
    - Usually, links to full texts
  - Most articles are collected from English-language journals
  - Journals published in languages other than English offer English abstracts, while the languages of the articles remain German, French, Russian etc.
- **Use English search terms, since the language of the database is English!!!**

# General Search Tips

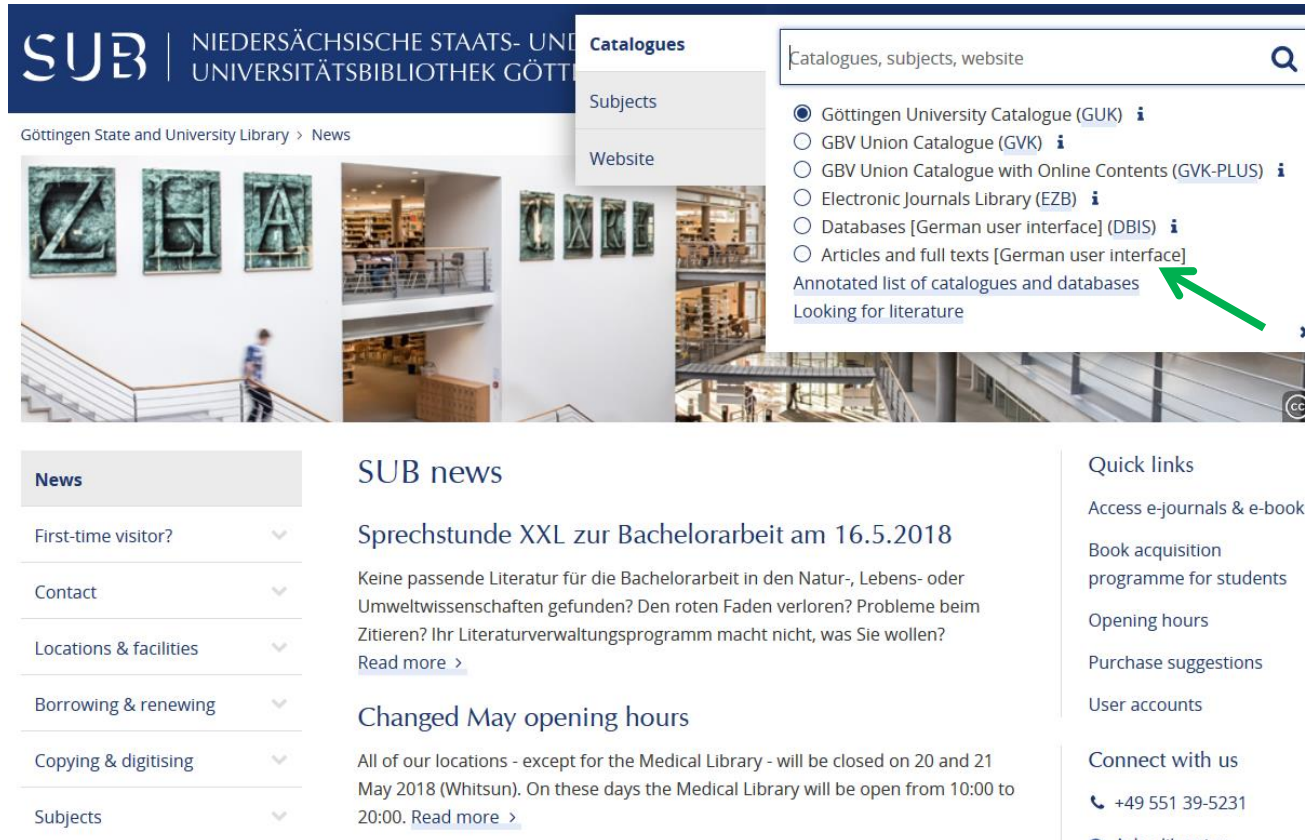
- Use *wildcard operators* at the end of your search terms, e.g. a search for *neoplas\** will also retrieve results for *neoplasia*, *neoplastic*, *neoplasm* etc.
- Use the *Boolean operators AND OR NOT*
  - Retrieve results that contain all of the search terms (connected by **AND**)
  - Retrieve results that contain either one of the search terms, use brackets to combine boolean operators, e.g. (Illness xy AND Medication a) **OR** (Illness xy AND Medication b)
  - Retrieve results for the first search term but **NOT** the second
- Use quotation marks for a *phrase search*, e.g. „growth hormone“
- Proceed with your search systematically, e.g. from general to specific
- „Play“ with the terms (use synonyms, related terms)
- Use not too many, but also not too few search words



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# How do I access PubMed?

- To have access to licenced full-text materials, you should access PubMed via the homepage of the Göttingen State and University Library
- Go to the DBIS-link that you find in the search menu



The screenshot shows the homepage of the Göttingen State and University Library (SUB). The header includes the logo and the text "NIEDERSÄCHSISCHE STAATS- UND UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN". A search bar contains the text "Catalogues, subjects, website". A dropdown menu is open, showing options: "Catalogues", "Subjects", and "Website". The "Catalogues" option is selected, and a list of resources is displayed:

- Göttingen University Catalogue (GUK) **i**
- GBV Union Catalogue (GVK) **i**
- GBV Union Catalogue with Online Contents (GVK-PLUS) **i**
- Electronic Journals Library (EZB) **i**
- Databases [German user interface] (DBIS) **i**
- Articles and full texts [German user interface]

Below the list are links for "Annotated list of catalogues and databases" and "Looking for literature". A green arrow points to the "Articles and full texts [German user interface]" option. The page also features a "News" section with a "SUB news" heading and several news items, including "Sprechstunde XXL zur Bachelorarbeit am 16.5.2018" and "Changed May opening hours". A "Quick links" section is visible on the right, and a "Connect with us" section at the bottom right.

[Screenshot](#) contains a picture by Claudia Hake and Nils Winidisch [CC BY-NC-ND 3.0](#)

# How do I access PubMed?



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- You will find PubMed either among the top suggestions for the subject of „Medicine“ or via the quick search

**Datenbank-Infosystem (DBIS)**  
Niedersächsische Staats- und Universitätsbibliothek Göttingen

HOME Literatursuche Elektronische Zeitschriften (EZB) GBV-Datenbanken Nationallizenzen / Sammlungen - Monographien SUB bei Twitter

Suche nach Themen  
Schnelle Suche    
Erweiterte Suche

Aktuelles  
Fachübersicht  
Alphabetische Liste  
Sammlungen  
Hinweise zur Benutzung  
Ansprechpartner  
Bibliotheksauswahl / Einstellungen  
Über DBIS

Gefördert durch:  
  
DFG  
Impressum

**Fachübersicht**

Fachgebiete	Anzahl
Allgemein / Fachübergreifend	1224
Allgemeine und vergleichende Sprach- und Literaturwissenschaft	266
Anglistik, Amerikanistik	160
Archäologie	153
Architektur, Bauingenieur- und Vermessungswesen	181
Australien, Neuseeland	10
Biologie	315
Chemie	148
Elektrotechnik, Mess- und Regelungstechnik	41
Energie, Umweltschutz, Kerntechnik	144
Ethnologie (Volks- und Völkerkunde)	135
Geochemie und Geophysik	1
Geographie	213
Geowissenschaften	129
Germanistik, Niederländische Philologie, Skandinavistik	432
Geschichte	359
Informatik	62
Informations-, Buch- und Bibliothekswesen, Handschriftenkunde	185
Keltologie	13
Klassische Philologie	91
Kunstgeschichte	317
Land- und Forstwirtschaft, Gartenbau, Fischereiwirtschaft, Hauswirtschaft, Ernährung	188
Limnologie	1
Maschinenwesen, Werkstoffwissenschaften, Fertigungstechnik, Bergbau und Hüttenwesen, Verkehrstechnik, Feinwerktechnik	82
Mathematik	62
Medien- und Kommunikationswissenschaften, Publizistik, Film- und Theaterwissenschaft	202
Medizin	305
Musikwissenschaft	178
Naturwissenschaft allgemein	94
Pädagogik	124
Pharmazie	75
Philosophie	107
Physik	94
Politologie	341
Psychologie	68
Rechtswissenschaft	372

Screenshot of the page <http://rzblx10.uni-regensburg.de/>

# How do I access PubMed?

- After finding PubMed in DBIS, you will see these two links:
  - [han.sub.uni-goettingen.de/han/pubmed](http://han.sub.uni-goettingen.de/han/pubmed):
    - Use this link when off campus, i.e. when you are not logged into the university network. You can log in via this Han-server with your user number and the library password, and use all resources licenced by the University of Göttingen from home.
  - Verlags-URL:
    - Choose this link if you are using one of the university PCs or your device is connected to the university network.

PubMed	
Weitere Titel:	Medline (PubMed = Public Medline) National Library of Medicine - NLM Index Medicus
Recherche starten:	<a href="http://han.sub.uni-goettingen.de/han/pubmed">http://han.sub.uni-goettingen.de/han/pubmed</a>
Weitere lizenzierte Zugänge:	<b>Verlags-URL</b> <b>Zugang für Gäste (ohne SUB-Benutzerkonto) an den Katalogrechnern</b>
Verfügbar:	frei im Web <b>F</b>

Screenshot of the page <http://rzblx10.uni-regensburg.de/>



# Search strategy 1: Quick full-text search in PubMed

- If you search for „*diabetes mellitus*“ in PubMed, your hit list should look as follows:

In this tab, you can sort your list of results by publication year, author etc.

Set appropriate filters to refine your search results. For more filters click „Show additional Filters“.

Search results

Items: 1 to 20 of 417864

- [Permutation entropy analysis of autonomic neuropathy in type 1 diabetes mellitus](#)  
Carricarte Naranjo C, Sanchez-Frutos A.  
Comput Biol Med. 2017 May 8;86:90-97. doi: 10.1016/j.complomed.2017.05.003. [Epub ahead of print]  
PMID: 28527351  
[Similar articles](#)
- [Insulin therapy in neonatal diabetes mellitus: a review of the literature.](#)  
Rabbone I, Barbetti F, Gentilella R, Mossetto G, Bonfanti R, Maffei C, Iafusco D, Piccinno E.  
Diabetes Res Clin Pract. 2017 Apr 13;129:126-135. doi: 10.1016/j.diabres.2017.04.007. [Epub ahead of print] Review.  
PMID: 28527303  
[Similar articles](#)
- [Neuroimaging and its Relevance to Understanding Pathways Linking Diabetes and Cognitive Dysfunction.](#)  
Moran C, Beare R, Phan T, Starkstein S, Bruce D, Romina M, Srikanth V.  
J Alzheimers Dis. 2017 May 17. doi: 10.3233/JAD-161166. [Epub ahead of print]  
PMID: 28527209  
[Similar articles](#)
- [Consensus on Initiation and Intensification of Premix Insulin in Type 2 Diabetes Management.](#)  
Mohan V, Kalra S, Kesavadev J, Singh AK, Kumar A, Unnikrishnan AG, Chawla R, Mukherjee H.

Results by year

Download CSV

diabetes mellitus treatment

Titles with your search terms

OGTT 1h serum C-peptide to plasma glucose concentration ratio is more reliable. [Oncotarget. 2017]

Diabetes: Rising incidence of diabetes mellitus in youth in the USA. [Nat Rev Endocrinol. 2017]

Quantitative evaluation of insulin resistance markers in Pakistani patients su [Acta Virol. 2017]

See more...

Find related data

Database: Select



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# Search strategy 1: Quick full-text search in PubMed

- Set *Filters* to refine your search results
  - You can choose the range of publication years in „*Publication dates*“ or the language in „*Show additional filters* → *Languages*“.
  - NOTE: The filters you set remain valid for your next search, i.e. they need to be deleted manually. You will find detailed descriptions of individual filters in the glossary.
  - Refine your search results by providing more search terms in the search field and using the above-mentioned „*Boolean Operators*“ AND, OR und NOT.
  - Type in, for example, „*diabetes mellitus AND (therapy OR medication)*“.



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# Search strategy 2: Keyword search with MeSH (Medical Subject Headings)

- What are these MeSH and why should they be used in literature research?
  - MeSH are Medical Subject Headings assigned by subject experts to describe the topics of the article → *Drawback*: The most recent articles cannot be found via MeSH yet, as keywords are being added only gradually.
  - You can limit your search to certain aspects of a topic, e.g. *diagnosis*
  - With MeSH database you can conduct a highly accurate content-based search
  - MeSH is organised as a kind of dictionary that includes cross-references to sub-topics for the respective search term



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# Search strategy 2: Keyword search with MeSH

- Type the search phrase „*diabetes mellitus*“ in the search field.
- Make sure you choose „MeSH“ in the drop-down menu on the left side of the search field.
  - NOTE: You can look for only one search term at a time. You can, however, save it in the „Search Builder“, which allows you to store your search terms and subsequently look for them again.

The screenshot shows the MeSH search interface on the U.S. National Library of Medicine website. The search bar contains the text "diabetes mellitus" and the dropdown menu is set to "MeSH". The search results page displays a list of three MeSH terms related to diabetes mellitus. Three yellow callout boxes provide additional instructions:

- IMPORTANT! Choose „MeSH“**: Points to the dropdown menu in the search bar.
- You can look for only one search term at a time. Think of MeSH database as a dictionary.**: Points to the search bar area.
- In the list of results, you will see all MeSH-keywords that match your search term. Choose the keyword that you consider most relevant to your search.**: Points to the list of search results.

# Search strategy 2: Keyword search with MeSH

- Choose the keyword „Diabetes Mellitus“ from the list of results and click on it. A new window with the so-called „Subheadings“ will appear. You can limit your search with the help of subheadings if, for example, you wish to research about therapy for diabetes.

## Diabetes Mellitus

A heterogeneous group of disorders character

PubMed search builder options

Subheadings:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> analysis              | <input type="checkbox"/> economics                       | <input type="checkbox"/> parasitology           |
| <input type="checkbox"/> anatomy and histology | <input type="checkbox"/> education                       | <input type="checkbox"/> pathology              |
| <input type="checkbox"/> blood                 | <input type="checkbox"/> embryology                      | <input type="checkbox"/> physiology             |
| <input type="checkbox"/> blood supply          | <input type="checkbox"/> enzymology                      | <input type="checkbox"/> physiopathology        |
| <input type="checkbox"/> cerebrospinal fluid   | <input type="checkbox"/> epidemiology                    | <input type="checkbox"/> prevention and control |
| <input type="checkbox"/> chemical synthesis    | <input type="checkbox"/> ethnology                       | <input type="checkbox"/> psychology             |
| <input type="checkbox"/> chemically induced    | <input type="checkbox"/> etiology                        |   |
| <input type="checkbox"/> chemistry             | <input type="checkbox"/> genetics                        |   |
| <input type="checkbox"/> classification        | <input type="checkbox"/> history                         |   |
| <input type="checkbox"/> complications         | <input type="checkbox"/> immunology                      |   |
| <input type="checkbox"/> congenital            | <input type="checkbox"/> metabolism                      |   |
| <input type="checkbox"/> diagnosis             | <input type="checkbox"/> microbiology                    |   |
| <input type="checkbox"/> diagnostic imaging    | <input type="checkbox"/> mortality                       |   |
| <input type="checkbox"/> diet therapy          | <input type="checkbox"/> nursing                         |   |
| <input type="checkbox"/> drug therapy          | <input type="checkbox"/> organization and administration | <input type="checkbox"/> urine                  |
|  |  | <input type="checkbox"/> veterinary             |
|  |  | <input type="checkbox"/> virology               |

Restrict to MeSH Major Topic.

Do not include MeSH terms found below this term in the MeSH hierarchy.

„Subheadings“ are the underlying aspects of your chosen subject area. If you look only for therapy for diabetes, for instance, you can limit your search by choosing one or more „Subheadings“.

By ticking this field you set your search term as the main keyword. Thereafter your search will only retrieve articles that primarily deal with the topic.

Add to search builder AND

Search PubMed

YouTube Tutorial

Related information

PubMed

Recent Activity

Turn Off Clear

U.S. National Library of Medicine

# Search strategy 2: Keyword search with MeSH

- Further at the bottom of the page you will find the so-called „MeSH-Tree“

[U.S. National Library of Medicine](https://pubmed.ncbi.nlm.nih.gov/)

Restrict to MeSH Major Topic  
Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): C18.452.394.750, C19.246  
MeSH Unique ID: D003920  
See Also:

- [Diabetes Insipidus](#)
- [Diet, Diabetic](#)
- [Prediabetic State](#)
- [Scleredema Adulorum](#)
- [Glycosylation End Products, Advanced](#)
- [Glucose Intolerance](#)
- [Gastroparesis](#)

All MeSH Categories

Diseases Category

Nutritional and Metabolic Diseases

Metabolic Diseases

Glucose Metabolism Disorders

**Diabetes Mellitus**

- [Diabetes Mellitus, Experimental](#)
- [Diabetes Mellitus, Type 1](#)
- [Wolfram Syndrome](#)
- [Diabetes Mellitus, Type 2](#)
- [Diabetes Mellitus, Lipotrophic](#)
- [Diabetes, Gestational](#)
- [Diabetic Ketoacidosis](#)
- [Donohue Syndrome](#)
- [Latent Autoimmune Diabetes in Adults](#)
- [Prediabetic State](#)

All MeSH Categories

Diseases Category

Endocrine System Diseases

**Diabetes Mellitus**

Diabetes Complications

- [Diabetic Angiopathies +](#)
- [Diabetic Cardiomyopathies](#)
- [Diabetic Coma +](#)
- [Diabetic Ketoacidosis](#)
- [Diabetic Nephropathies](#)

Extending the search by hierarchically-organised MeSH terms is not possible.

You can trace where your MeSH term is located in the hierarchically-constructed „MeSH-Tree“.

This way, you can check whether you have chosen a general or a specific term.

SEARCH RESULTS

- [CHEMOAFFINITY IN THE ORDERLY GROWTH OF NERVE FIBER PATTERNS](#)
- [diabetes mellitus \(B1\)](#) MeSH
- [Lactose Intolerance in Adults: Biological Mechanism and Dietary Management](#)

[See more...](#)

# Search strategy 2: Keyword search with MeSH

- To be able to access the article you need you should enter your search query in PubMed:

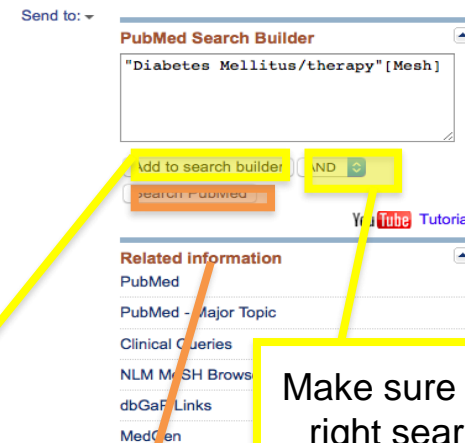


You can look for further MeSH terms that you require for your research. The terms that you have already added to the Search Builder remain saved.

- |  |                                       |   |
|--|---------------------------------------|---|
| <input type="checkbox"/> analysis              | <input type="checkbox"/> economics    | <input type="checkbox"/> parasitology           |
| <input type="checkbox"/> anatomy and histology | <input type="checkbox"/> education    | <input type="checkbox"/> pathology              |
| <input type="checkbox"/> blood                 | <input type="checkbox"/> embryology   | <input type="checkbox"/> physiology             |
| <input type="checkbox"/> blood supply          | <input type="checkbox"/> enzymology   | <input type="checkbox"/> physiopathology        |
| <input type="checkbox"/> cerebrospinal fluid   | <input type="checkbox"/> epidemiology | <input type="checkbox"/> prevention and control |
| <input type="checkbox"/> chemical synthesis    | <input type="checkbox"/> ethnology    | <input type="checkbox"/> psychology             |
| <input type="checkbox"/> chemically induced    | <input type="checkbox"/> etiology     | <input type="checkbox"/> radiotherapy           |
| <input type="checkbox"/> chemistry             | <input type="checkbox"/> genetics     | <input type="checkbox"/> rehabilitation         |
| <input type="checkbox"/> classification        |                                       |   |
| <input type="checkbox"/> complications         |                                       |   |
| <input type="checkbox"/> congenital            |                                       |   |
| <input type="checkbox"/> diagnosis             |                                       |   |
| <input type="checkbox"/> diagnostic imaging    |                                       |   |
| <input type="checkbox"/> diet therapy          |                                       |   |
| <input type="checkbox"/> drug therapy          |                                       |   |

Choose your MeSH term (and, if relevant, subheadings) and click on „Add to search builder“. You can also add subheadings of your own choice.

After you have added all MeSH terms to the Search Builder, click on „Search PubMed“ to access full text.



Make sure to choose the right search operator!

# Search strategy 2: Keyword search with MeSH

- Tip: If you are not sure which terms to use for your search, choose an article that is relevant to your topic.
  - Have a look at the MeSH terms to get ideas for your search
  - Terms that reflect the major points of the article are marked with an asterisk \*

## MeSH terms, Substances

### MeSH terms

Diabetes Mellitus/drug therapy\*

Drug Delivery Systems/methods\*

Humans

Hypoglycemic Agents/chemistry

Hypoglycemic Agents/pharmacology\*

Liposomes/chemistry\*

Liposomes/metabolism

Nanoparticles/chemistry\*

[U.S. National Library of Medicine](http://www.nlm.nih.gov)



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# Search strategy 3: Full-text search in Advanced Search Builder

- Unlike the search with MeSH, where you can only search using medical keywords, the Advanced Search Builder allows you to conduct a *very specific full-text search*.
- Switch to the „Advanced“ search option that you find below the search bar.



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# Search strategy 3: Full-text search in Advanced Search Builder

- You will then see the Advanced Search Builder in which you can type in your search term, e.g. „*diabetes mellitus*“ (All fields).

Builder

All Fields diabetes mellitus

diabetes mellitus (361918)  
diabetes mellitus/acidosis (20)  
diabetes mellitus/acidosis in (17)  
diabetes mellitus/aged (1)  
diabetes mellitus/alloxan (1)  
diabetes mellitus/amer diabetes assn (1)  
diabetes mellitus/analysis (1)  
diabetes mellitus/and insurance (1)  
diabetes mellitus/blood (15354)  
diabetes mellitus/blood in (318)

Previous 200  
Next 200

Retrie...

AND All Fields

Search

Author

Author - Corporate

Author - First

Author - Full

Author - Identifier

Author - Last

Book

Conflict of Interest Statements

Date - Completion

Date - Create

Date - Entrez

Date - MeSH

Date - Modification

Date - Publication

EC/RN Number

Editor

Filter

Grant Number

show index list

You can call up an index of terms related to your search term.

You can limit your search to publications by a specific author (choose ,Author') or combine different search criteria in your search query.

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# Search strategy 3: Full-text search in Advanced Search Builder

- Tip: The search option „MeSH Terms“ or „Subheadings“ in Advanced Search Builder is recommended if you have saved your MeSH terms in advance. It is advisable to use the MeSH database for convenient content-based research.
- Advanced Search Builder stores conducted search queries (for one browser session) which you can then use and combine in your further search.

The screenshot shows the PubMed Advanced Search Builder interface. The top section is labeled "Builder" and contains two search criteria, each with a dropdown menu set to "All Fields". Below these are "Search" and "Add to history" buttons. A yellow callout box points to the "Add to history" button, stating: "You can save search queries for your current browser session here." To the right, a "Show index list" link is visible. Another yellow callout box points to the "Add to history" button, stating: "The „History“ is a kind of preview of the search results for this query." Below the Builder section is the "History" section, which contains a table of previously conducted searches. A yellow callout box points to the "Add to builder" button in the first row of the history table, stating: "Previously conducted search queries can be moved to the „Builder“ and used later again." The history table has columns for "Search", "Items found", and "Time". The first row shows a search for "diabetes" with 417877 items found and a time of 02:15:33. Links for "Download history" and "Clear history" are also present.

**Builder**

All Fields

AND All Fields

Search or Add to history

Show index list

You can save search queries for your current browser session here.

The „History“ is a kind of preview of the search results for this query.

**History**

Download history Clear history

Search	Add to builder	Items found	Time
#1	Add	417877	02:15:33

Search diabetes

Previously conducted search queries can be moved to the „Builder“ and used later again.

[U.S. National Library of Medicine](https://pubmed.ncbi.nlm.nih.gov/)

# Organising your research – MyNCBI (National Center for Biotechnology Information): processing the results and customising search

- Click on „Sign in to NCBI“ at the top right corner of the page
- Register or sign in



[U.S. National Library of Medicine](http://www.nlm.nih.gov)

**My NCBI**

Search NCBI databases

Search : PubMed

Search

Hint: clicking the "Search" button without any terms listed in the search box will transport you to that database's homepage.

**My Bibliography**

Your bibliography contains **1 items**.  
Your bibliography is **private**. ([settings](#))

**Most recent citations:**

Schwanke J, Rienhoff O, Schulze TG, Nussbeck SY. Suitability of customer relationship management systems for the management of study participants in biomedical research. *Methods Inf Med.* 2013;52(4):340-50. doi: 10.3414/ME12-02-0012. Epub 2013 Jul 23. PubMed PMID: 23877579.

[Manage My Bibliography >](#)

**Recent Activity**

Time	Database	Type	Term
14-Mar-2017	PubMed	record	Quality of human-computer interact...
14-Mar-2017	PubMed	record	Interdisciplinary approach towards ...
14-Mar-2017	PubMed	record	Architecture of a Biomedical Inform...
14-Mar-2017	PubMed	search	sax ulrich
14-Mar-2017	PubMed	record	Clinical aspects of hantavirus infe...
14-Mar-2017	PubMed	search	hantavirus pulmonary
14-Mar-2017	PubMed	search	hantavirus pulmonary AND ("last 5 y...
14-Mar-2017	PubMed	search	turner syndrome
14-Mar-2017	PubMed	search	turner syndrome AND ("last 5 years"...
14-Mar-2017	PubMed	search	turner syndrome AND ("last 5 years"...

Clear Turn Off

**Saved Searches**

Search Name	What's New	Last Searched
<b>PubMed Searches</b>		
sax_u	0	18 days ago
alt-epping	0	18 days ago
morbus_crohn	13Z	18 days ago
(bowel disease) AND "The American journal of ga...	Z	18 days ago
parodontalchirurgie[Transliterated Title]	0	18 days ago
hantavirus_infections/therapy	0	18 days ago
morbus_crohn_children	1	18 days ago
hantavirus_pulmonary	1	18 days ago
rienhoff_o	0	19 days ago

[Manage Saved Searches >](#)

**Collections**

Collection Name	Items	Settings/Sharing	Type
<b>Favorites</b>	edit 0	Private	Standard
My Bibliography	edit 1	Private	Standard
Other Citations	edit 0	Private	Standard
Rienhoff	edit 49	Private	PubMed
turner syndrome	edit 78	Private	PubMed
morbus_crohn	edit 64	Public	PubMed
bowel disease	edit 736	Private	PubMed
TurnerSyndromeTherapy	edit 99	Private	PubMed
hanta_virus_infection_female	edit 17	Private	PubMed
hantavirus_pulmonary	edit 226	Private	PubMed

[Manage Collections >](#)

**Filters**

[U.S. National Library of Medicine](http://www.nlm.nih.gov)

The start page in MyNCBI displays an overview of your Saved Searches/ Collections/ Bibliography/ Recent Activity

Sharing collections:  
If you want your peers to be able to access your list of results, you can enable access to your collections:

- MyNCBI -> Collections
- Go to ,*Manage Collections*,
- Click on ,*Private*' in the column ,*Sharing*'
- Change the status to ,*Public*'

# Organising your research – MyNCBI: Permanent Data Storage

- You can add individual search results directly to a collection
- Or copy results of different searches to clipboard first (*Send to Clipboard*)
- Tick the results of your choice (if you wish to import the whole list, do not tick) and click *Send to Collection*
- You can create collections on different topics

The screenshot shows the PubMed search results page for the query "diabetes mellitus type 1 therapy children". The search results are displayed in a list format. A "Send to" dialog box is open, showing options to add items to a collection, clipboard, email, or citation manager. The dialog box also shows the number of items to be added (1) and a button to "Add to Collections". The search results list includes titles, authors, and publication details for several articles related to diabetes management in children.

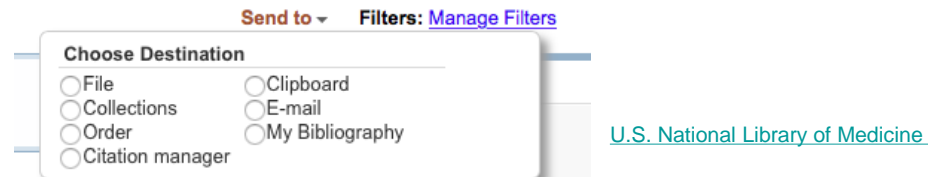
You can also save your search queries:

- Click on *Create Alert* (under the search bar)
- Fill in the details and click *Save*
- When new items relevant for your saved search query are added to PubMed, you will receive email notifications

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# Organising your research – Using the „Send to“ function

- The list of search results in PubMed can be edited in different ways. You can call up additional settings by clicking ‚Send to‘



- File: download to save (perfect for Endnote, as you can choose the format ‚Medicine‘, which enables the import of an unlimited list of results)
  - Collections: add results to a collection in MyNCBI
  - Order: order directly within the USA (rather expensive!)
  - Citation Manager: export to a reference management programme
  - Clipboard: copy individual results to clipboard
  - Email: send results to an email address
  - My Bibliography: add results to your own bibliography in MyNCBI
- Tip: By ticking the boxes above the result numbers you can mark different results that you wish to save. Otherwise, all results will be selected.**

# Further Support for PubMed

- Access to Full Texts:
  - Here you will find detailed guidelines on how to access full texts: [„Zugriffsmöglichkeiten auf Volltexte von Zeitschriftenaufsätzen für Medizinstudierende“](#) (only in German)
- Course on PubMed by the Medical Library:
  - All dates can be found [here](#)
  - Refer to the Circulation Desk in the Medical Library for further information
- YouTube Tutorials:
  - The NCBI offers English-language [Video Tutorials](#) on various functions in PubMed



# Glossary – Filters in PubMed

- **Article Types:** type of publication, e.g.:
  - Clinical Trial: a clinical study
  - Letter: a note, commentary on an article
  - Meta-Analysis: a summary and an evaluation of data from different studies
  - Practice Guideline: guidelines
  - Randomized Controlled Trial: a clinical study of (a) control group(s), where test subjects are allocated to groups on a random basis
  - Review: an overview of the (current) state of research
- **Text Availability:** reducing the results to articles with free access or those available in full text
- **Publication Dates:** sorting the results by their publication dates
- **Species:** selecting the species examined (human or animal) – recommended for the search for animal models
- **Languages:** selecting the language of the original article
- **Sex:** selecting the gender of the subjects examined
- **Subjects:** restricting the results to a certain subject area (e.g. AIDS, cancer, or the History of Medicine)
- **Journal Categories:** limiting the search to journals or databases
- **Ages:** selecting the age of the subjects examined
- **Search Fields:** selecting a search key, e.g.:
  - A search for „*health*“ with „Author“ set as a search key will retrieve results like „Health, A.“ or „Health, V.B.“
  - With the search key „Journal“ you will retrieve „American Journal of Health Behavior“ or „North Carolina Journal of Mental Health“



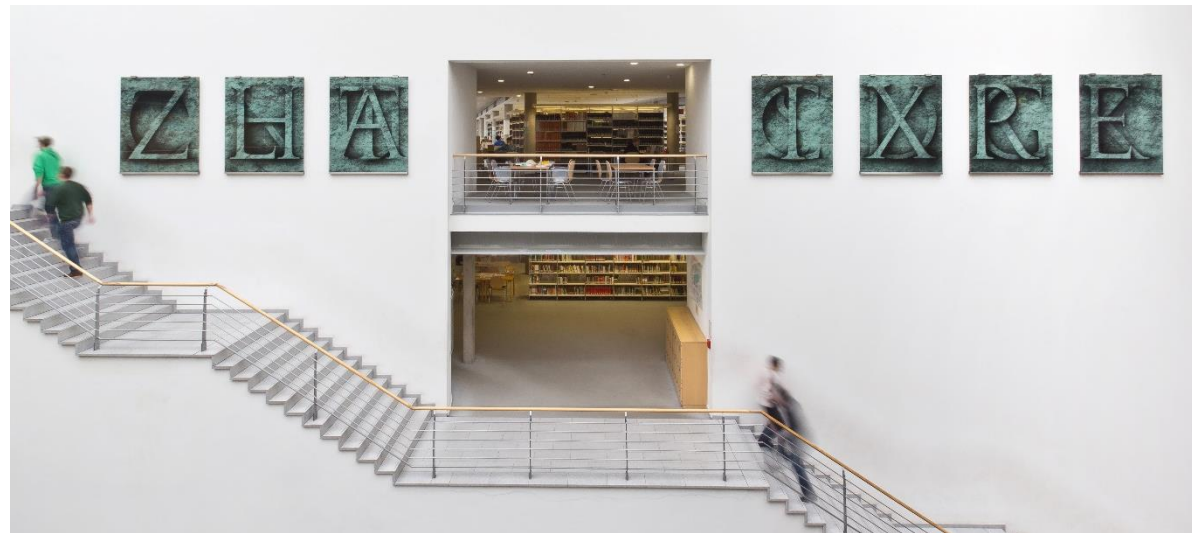
# Glossary – Types of Publications in Medicine

- **Journal Article:** a journal article on a certain topic
- **Review:** an article that evaluates a number of important publications on a certain topic and summarises the current state of research
- **Clinical Trial:** an article on the results of a clinical study
- **Systematic Review:** a larger scholarly work that systematically and methodically assesses all available primary studies, qualitatively evaluates, and statistically describes the results (Meta-Analysis)
- **Guideline:** recommendations developed to assist the decisions about appropriate health care for specific clinical circumstances
- **Health Technology Assessment:** a systematic assessment of health-related actions that examines the efficiency, safety as well as ethical, legal, and organisational impacts of a health-care intervention

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We wish you the best of luck with your studies!



GEORG-AUGUST-UNIVERSITÄT  
GÖTTINGEN



SUB Göttingen

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