MeSH Highlights 2022



Objective and Audience



This class will introduce changes made in MeSH for 2022 and discuss how they may impact you as a PubMed searcher.



PubMed searchers, librarians, catalogers who are familiar with MeSH's structure (Main Headings, SCR, ET, etc.)

MeSH Database

Ş NCBI Resources ☑ How T	
MeSH MeSh	Search Limits Advanced Help
	MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.
Using MeSH	More Resources
<u>Help</u>	E-Utilities
<u>Tutorials</u>	NLM MeSH Homepage



Agenda

- 1. Overview
- 2. Examples of New & Updated Terms
 - a) COVID-19 Related Terms
 - b) Other Disease Related Terms
 - c) Population Groups
 - d) Social Determinants of Health
- 3. Automated Indexing
- 4. Q&A panel

Overview



MEDLINE Data Changes—2022. NLM Tech Bull. 2021 Nov-Dec;(443):e8

Overview: Stats

30,194

MeSH Main Headings

V

277

New Main Headings

318,110

Supplementary Concept Records

0

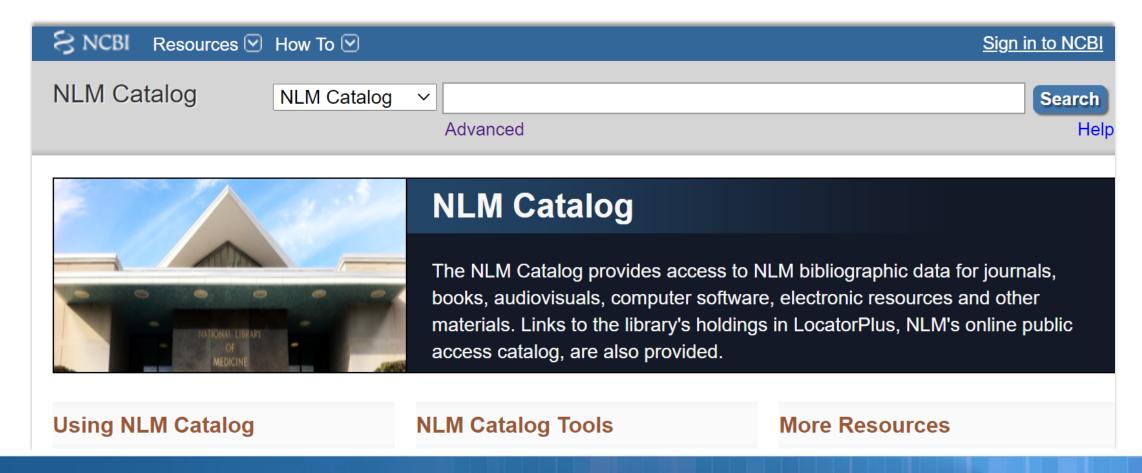
Deleted MeSH Subheadings

New MeSH Headings by Branch

Bra	nch	Nº
A.	Anatomy	28
В.	Organisms	14
C.	Diseases 25	
D.	0. Chemicals and Drugs 89	
Ε.	. Analytical, Diagnostic and Therapeutic 30 Techniques and Equipment	
F.	Psychiatry and Psychology 27	
G.	. Phenomena and Processes 24	
Н.	. Disciplines and Occupations 3	

Bra	Nō	
l.	Anthropology, Education, Sociology and Social Phenomena	31
J.	Technology, Industry, Agriculture	8
K.	Humanities	1
L.	Information Science	12
M.	Named Groups	9
N.	Health Care	29
V.	Publication Characteristics	0
Z.	Geographicals	1

MeSH in Cataloging





MeSH in Cataloging



Willis S. Use of 2022 MeSH in Cataloging. NLM Tech Bull. 2021 Nov-Dec;(443):e7.

Examples of New & Updated Terms



COVID-19



VACCINES, CONJUGATE

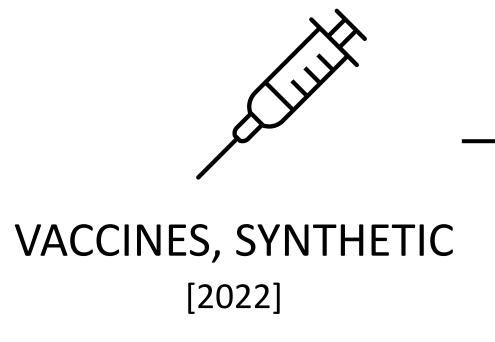
VACCINES, DNA

VACCINES, EDIBLE

VACCINES, VIROSOME

VACCINES, VIRUS-LIKE PARTICLE

COVID-19



NUCLEIC ACID-BASED VACCINES

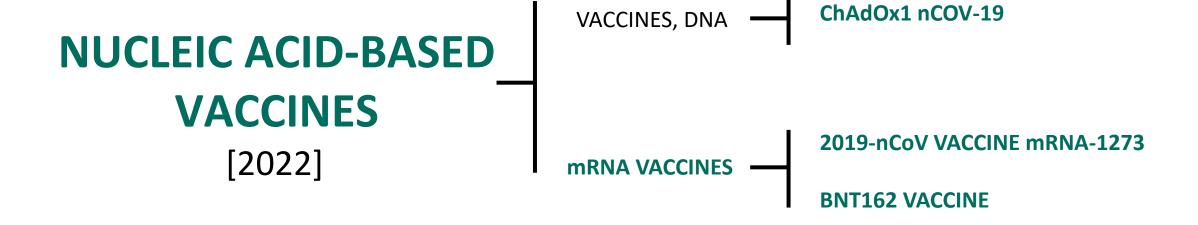
VACCINES, CONJUGATE

VACCINES, DNA

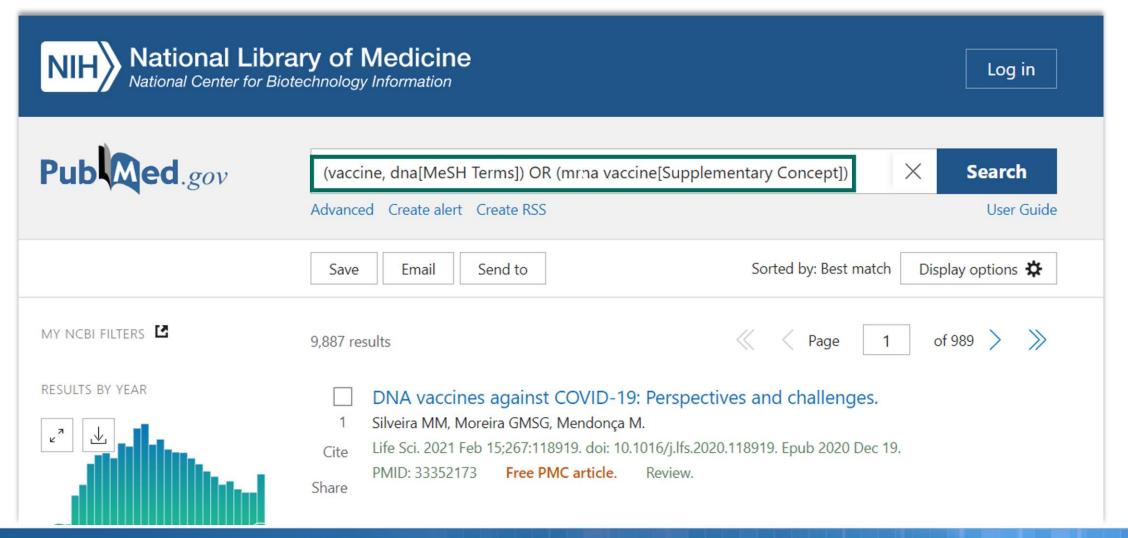
VACCINES, EDIBLE

VACCINES, VIROSOME

VACCINES, VIRUS-LIKE PARTICLE

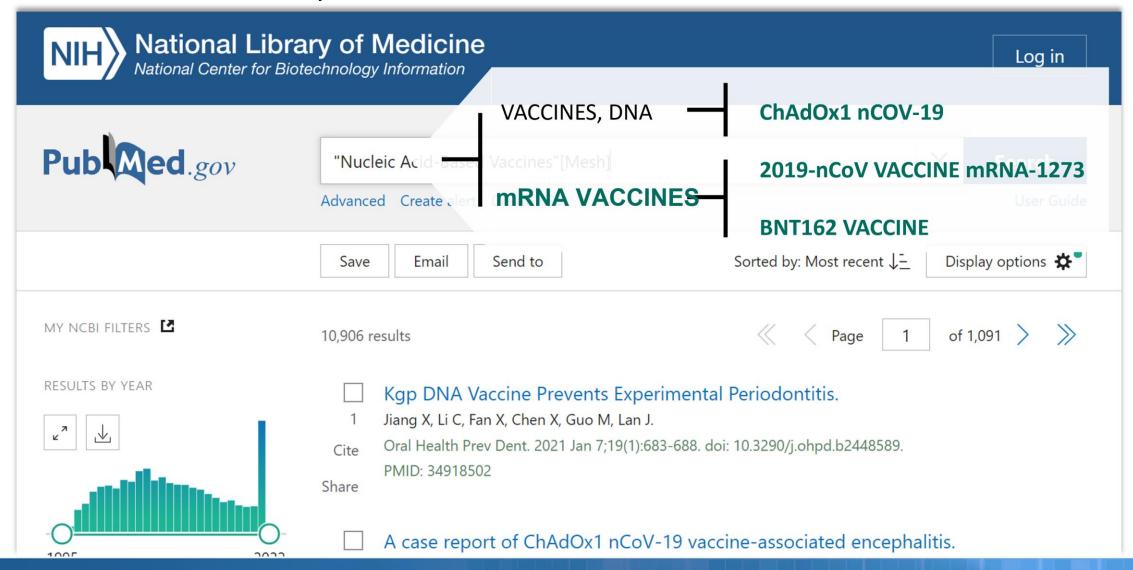


Previous PubMed Search for VACCINE, DNA and the former SCR of mRNA VACCINE



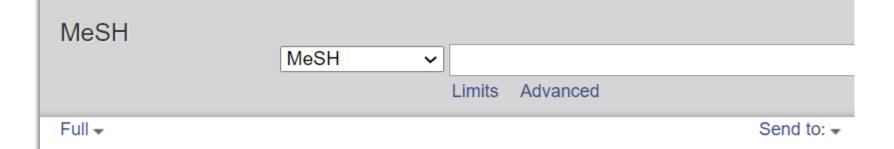


MeSH 2022, NUCLEIC ACID-BASED VACCINES



RESPIRATORY AEROSOLS AND DROPLETS

COVID-19



Respiratory Aerosols and Droplets

Physiological aerosols and droplets expelled during coughing, sneezing, speaking and exhalation. Depending on the size, aerodynamic distribution or concentration they may play a role in transmission of infectious respiratory diseases.

Year introduced: 2022

Review

> Viruses. 2020 Dec 31;13(1):54. doi: 10.3390/v13010054.

Lead SARS-CoV-2 Candidate Vaccines: Expectations from Phase III Trials and Recommendations Post-Vaccine Approval

Article Example

Ebenezer Tumban 1

Affiliations + expand

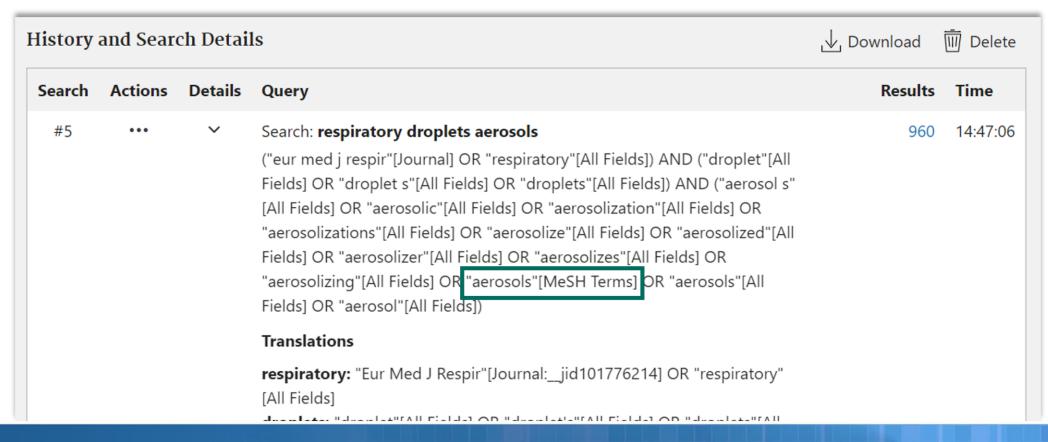
PMID: 33396343 PMCID: PMC7824305 DOI: 10.3390/v13010054

Free PMC article

Abstract

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is transmitted primarily through respiratory droplets/aerosols and it causes COVID-19. The virus infects epithelial cells by using the spike protein on its surface to bind to angiotensin-converting enzyme 2 receptor on the cells. Thus, candidate vaccines targeting the spike protein are currently being developed to prevent against

MeSH 2021

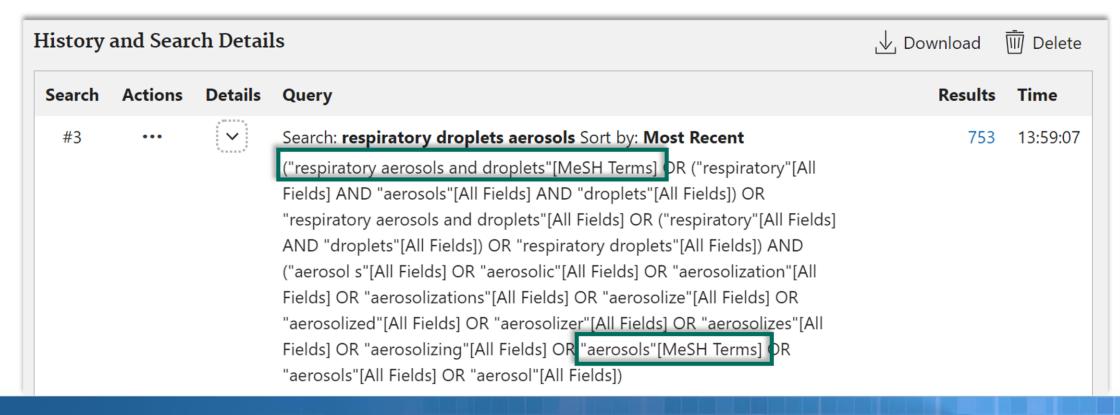




Consult the MeSH Database

MeSH				
	MeSH ~			
		Limits	A	Advanced
Full -				Send to: ▼
Aerosols				
Colloids with a gaseous dis- used in fumigation or in inha				(fog) or solid (smoke) dispersed phase; pellant agents.
All MeSH Categories Chemicals and Drug Complex Mix Colloi	<u>ktures</u>			
Collor	Aerosols			

MeSH 2022

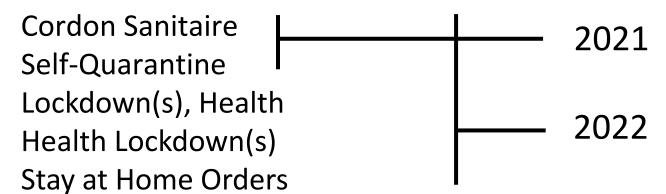




COVID-19

QUARANTINE

Entry Terms





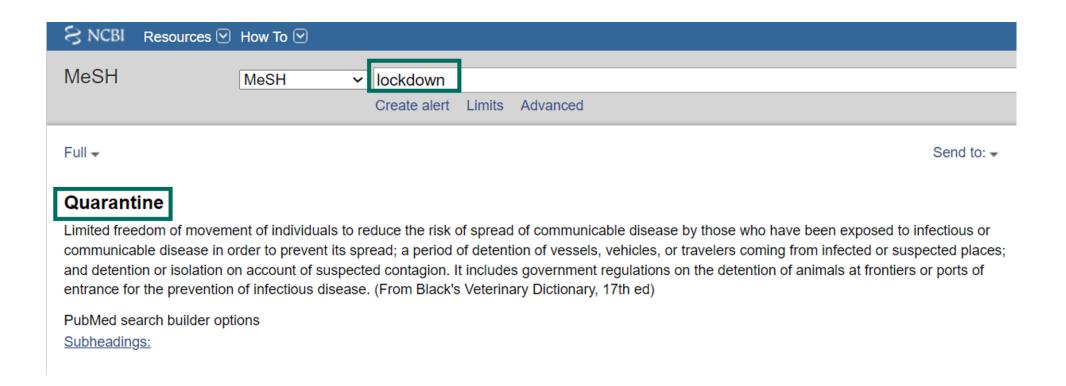
Variations of entry terms



VS

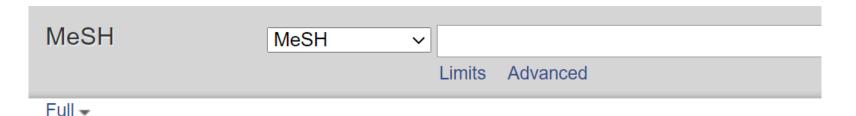


The MeSH Database is your friend.



UROGENITAL DISEASES

	C	\bigcirc
ise	5	



Urogenital Diseases

Pathological processes of the URINARY TRACT and the reproductive system (GENITALIA).

Year introduced: 2022

PubMed search builder options

Subheadings:

[2021]

DISEASES

FEMALE UROGENITAL DISEASES AND PREGNANCY COMPLICATIONS MALE UROGENITAL DISEASES



Diseases

[2022]

DISEASES

UROGENITAL DISEASES

GENITAL DISEASES

FEMALE UROGENITAL DISEASES AND PREGNANCY COMPLICATIONS MALE UROGENITAL DISEASES



MeSH 2021 Sexually Transmitted Diseases

FEMALE UROGENITAL DISEASES AND PREGNANCY COMPLICATIONS

— FEMALE UROGENITAL DISEASES

— GENITAL DISEASES, FEMALE

—— SEXUALLY TRANSMITTED DISEASES

MeSH 2022 Sexually Transmitted Diseases

UROGENITAL DISEASES

— GENITAL DISEASES

— GENITAL DISEASES, FEMALE
— SEXUALLY TRANSMITTED DISEASES

Ex. "Genital **D**iseases, Female" [MeSH Terms]

OR ("Sexually Transmitted Diseases" [MeSH Terms] AND "Female" [MeSH Terms])

[2021]

CONTINENTAL POPULATION GROUPS

AFRICAN CONTINENTAL ANCESTRY GROUP

AMERICAN NATIVE CONTINENTAL ANCESTRY GROUP

ASIAN CONTINENTAL ANCESTRY GROUP

EUROPEAN CONTINENTAL ANCESTRY GROUP

OCEANIC ANCESTRY GROUP

[ET]





[2022]

RACIAL GROUPS

BLACKS

AMERICAN NATIVE CONTINENTAL ANCESTRY GROUP

ASIANS

WHITES

NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER



Population Groups

[2021]

ETHNIC GROUPS

AFRICAN AMERICANS

AMISH

ARABS

ASIAN AMERICANS

INDIGENOUS PEOPLES

ROMA

HISPANIC AMERICANS

JEWS



[2022]

ETHNICITY

HISPANIC OR LATINO

[ET: HISPANIC AMERICANS]

Population Groups

[2022]
RACIAL GROUPS

AFRICAN AMERICANS

AMERICAN NATIVE CONTINENTAL ANCESTRY GROUP

ASIANS

ASIAN AMERICANS

WHITES

NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER

Persons

[2022]

HEALTH DISPARITY, MINORITY AND VULNERABLE POPULATIONS

AFRICAN AMERICANS

AMISH

ARABS

ASIAN AMERICANS

INDIGENOUS PEOPLES

JEWS

ROMA

SEXUAL AND GENDER MINORITIES

VULNERABLE POPULATIONS

Demo

https://www.ncbi.nlm.nih.gov/mesh/

What does the literature say about <u>populations</u> that live with <u>health disparities</u> as a result of environmental pollution?

MeSH Changes and PubMed Searching class

MeSH Changes and PubMed Searching 2022

REGISTER NOW

Every year, the Medical Subject Headings (MeSH) are updated. How does this affect your PubMed searches? What happens when a term gets changed, added, removed or moved to a different part of the MeSH hierarchy? How do you accommodate vocabulary changes over time in your comprehensive searches? How do you check your saved searches and alerts?

Join us for answers to these and other questions.

Objectives:

Successful participants will be able to:

- Describe how the MeSH vocabulary is maintained
- Explain how the addition, revision, deletion and

Class Details

Date(s): January 14, 2022

Time: 1:00 PM - 2:30 PM EST

Platform: Webex

CE Credits: 1.50

Class Experience Level: Beginner, Intermediate, Advanced

This is a National NNLM class.

REGISTER NOW

24 New Headings on Social Determinants of Health

- ECONOMIC STABILITY
- HOUSING INSTABILITY
- ENVIRONMENTAL JUSTICE
- COMMUNITY SUPPORT
- ACCESS TO HEALTHY FOODS
- CHILD POVERTY
- SOCIAL DEPRIVATION

- HOME ENVIRONMENT
- NEIGHBORHOOD CHARACTERISTICS
- SOCIODEMOGRAPHIC FACTORS
- OSTRACISM
- SYSTEMIC RACISM
- ...and more!

Intersectional Framework

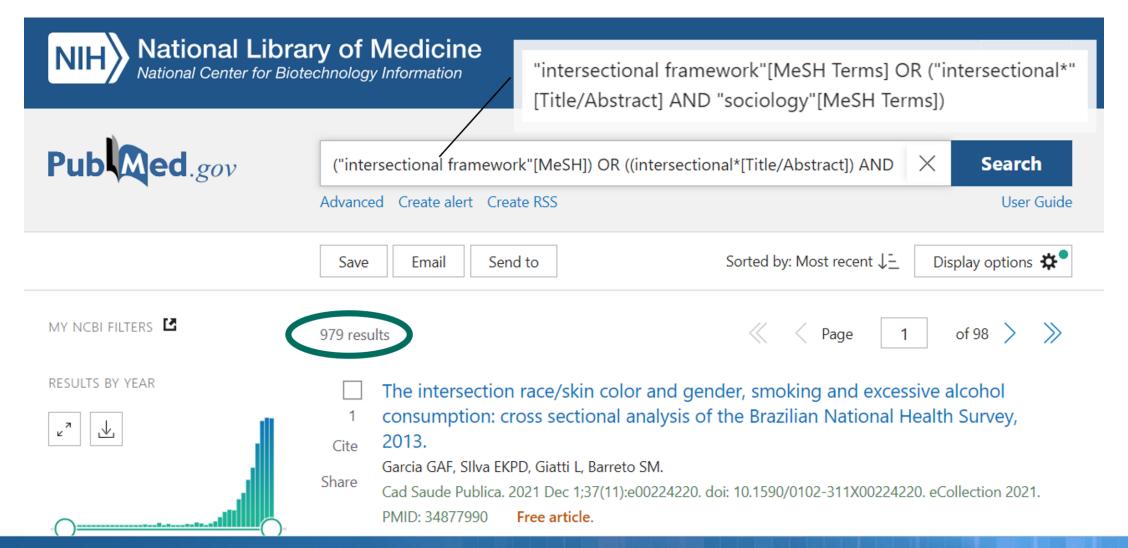
MeSH	MeSH ~	intersectional	frame	ework	
		Create alert Li	imits	Advanced	
Full -					Send t
Intersectional Fran	nework				
Interconnections of social of systems of discrimination of Year introduced: 2022	•	s race, class, and	d geno	der, creating overlapping a	and interdependent
PubMed search builder op	tions				
☐ Restrict to MeSH Major☐ Do not include MeSH to	•	erm in the MeSH	H hiera	archy.	



Pubmed search for "Intersectional framework"

Pub Med.gov	"Intersectional Framework"[Mesh]	× Search		
	Advanced Create alert Create RSS	User Guide		
	Save Email Send to	Sorted by: Most recent $\downarrow \frac{-}{-}$ Display options \clubsuit		
MY NCBI FILTERS 🖪	11 results	<pre></pre> <pre></pre>		
TEXT AVAILABILITY	☐ The intersection race/skin color	and gender, smoking and excessive alcohol		
Abstract	•	consumption: cross sectional analysis of the Brazilian National Health Survey,		
Free full text	Cite 2013. Garcia GAF, SIlva EKPD, Giatti L, Barreto SM.			
Full text	Share	24220. doi: 10.1590/0102-311X00224220. eCollection 2021.		
ARTICLE ATTRIBUTE	PMID: 34877990 Free article.			

Adjusted pubmed search for "intersectional framework"



Automated Indexing



MEDLINE 2022 Initiative: Transition to Automated Indexing. NLM Tech Bull. 2021 Nov-Dec;(443):e5.

Q&A with Experts

Thanks for joining us!

