

NLM Office Hours: PubMed Update

Amanda Sawyer, MLIS (NLM-NCBI) [C]



U.S. National Library of Medicine
National Center for Biotechnology Information

Agenda

- PubMed by the Numbers
- PubMed Updates & New Features
- Where to Find Training & Support
- Questions

PubMed by the Numbers



Comprised of more than 36 million citations

Nearly 2 million citations added since MLA '22



Visited by 3.5 million users per day

From all over the world



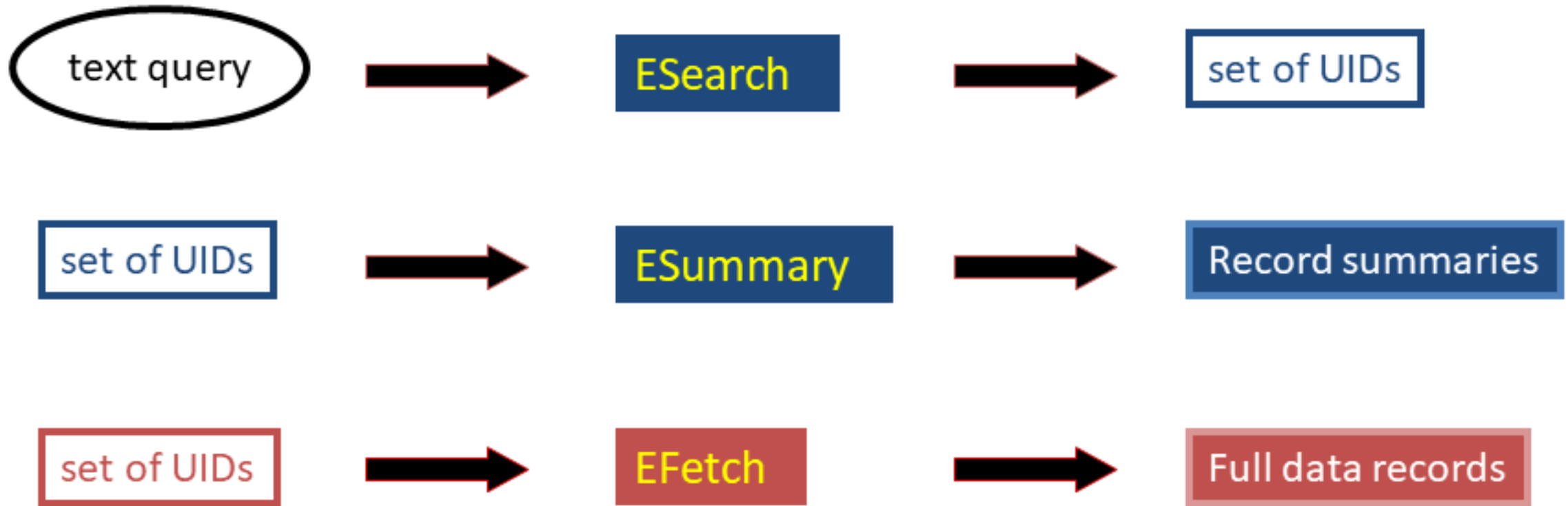
5.5 million searches conducted per day

In the PubMed web interface



Updates & Features

Updated PubMed E-Utilities



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Updated Journal Translation Table

History and Search Details

 Download  Delete

Search	Actions	Details	Query	Results	Time
#4	...	▼	Search: New England Journal of Medicine[Journal] "n engl j med"[Journal] Translations New England Journal of Medicine[Journal]: "N Engl J Med" [Journal: __jid0255562]	83,769	15:42:48
#3	...	▼	Search: The New England Journal of Medicine[Journal] "n engl j med"[Journal] Translations The New England Journal of Medicine[Journal]: "N Engl J Med" [Journal: __jid0255562]	83,769	15:42:36

Updated Collections Button on Abstract Pages

The image shows a screenshot of a PubMed abstract page for the article "Acute Kidney Injury in the Elderly" by Mitra K Nadim et al. The article is from the New England Journal of Medicine (NEJM), published in 2023. The PMID is 36812435 and the DOI is 10.1056/NEJMra2215289. A modal dialog titled "ADD TO COLLECTIONS" is open in the center of the screen. The modal has two radio buttons: "Create a new collection" (unselected) and "Add to an existing collection" (selected). Below the radio buttons is a dropdown menu labeled "Choose a collection:" with "Favorites" selected. At the bottom of the modal are "Add" and "Cancel" buttons. The background shows the PubMed interface with the article title, author information, and search results. The "Acute Kidney Injury" title is partially visible. The author "Mitra K Nadim" is listed. The journal "N Engl J Med." is mentioned. The PMID "36812435" and DOI "10.1056/NEJMra2215289" are displayed. The "ADD TO COLLECTIONS" modal is a white box with a blue border. The "Add" button is blue with white text, and the "Cancel" button is white with blue text. The "Favorites" dropdown is a white box with a blue border and a blue arrow pointing down. The background is a blurred view of the PubMed website, showing the "Acute Kidney Injury" title, the author "Mitra K Nadim", and the journal "N Engl J Med.". The PMID "36812435" and DOI "10.1056/NEJMra2215289" are also visible. The "ADD TO COLLECTIONS" modal is a white box with a blue border. The "Add" button is blue with white text, and the "Cancel" button is white with blue text. The "Favorites" dropdown is a white box with a blue border and a blue arrow pointing down. The background is a blurred view of the PubMed website, showing the "Acute Kidney Injury" title, the author "Mitra K Nadim", and the journal "N Engl J Med.". The PMID "36812435" and DOI "10.1056/NEJMra2215289" are also visible.

Review > N Engl J Med. 2023 Feb 23;388(8):733-745. doi: 10.1056/NEJMra2215289.

FULL TEXT LINKS

NEJM FULL TEXT

Acute Kidney Injury

Mitra K Nadim

Affiliations +

PMID: 36812435

PREV RESULT 14 of 83,769

Search results

Review > N Engl J Med. 2023 Feb 23

Acute Kidney Injury in the Elderly

Mitra K Nadim¹, Guadalupe Garcia-Tsao

Affiliations + expand

PMID: 36812435 DOI: 10.1056/NEJMra2215289

ADD TO COLLECTIONS

☐ Create a new collection

☒ Add to an existing collection

Choose a collection:

Favorites

Add Cancel

Search

User Guide

Email Send to Display options

NEXT RESULT 16 of 83,769

FULL TEXT LINKS

NEJM FULL TEXT

ACTIONS

Cite

Collections

Filter Menu Updates

ARTICLE TYPE

Cite N Engl J Med. 2009 Dec 17;361(25):2449-60. doi: 10.1056/NEJMra0804588.
PMID: 20018966 Free PMC article. Review. No abstract available.

Page 1

☐ Books and Documents

ARTICLE TYPE

SPECIES

ARTICLE LANGUAGE

SEX

AGE

OTHER

☐ Exclude preprints

☐ MEDLINE

Cancel Show

Reset all filters

Cite 80702 (Alliance) Randomized Clinical Trial.
Meyerhardt JA, Shi Q, Fuchs CS, Meyer J, Niedzwiecki D, Zemla T, Kumthekar P, Guthrie KA, Couture F,

Email Improvement



Bertagnolli M

×

Search

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Save

Email ●

Send to

Sorted by: Best match

Display options ⚙

Email citations

Subject: Bertagnolli M - PubMed

* To: amanda.sawyer@nih.gov

From: librarian@test.com

Selection: All results on this page ▾

Format: Summary ▾

Send email

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Email Improvement (cont.)

Bertagnolli M - PubMed



NLM NCBI nobody

To ○ Sawyer, Amanda (NIH/NLM/NCBI) [C]

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Sent On: Mon May 01 16:06:40 2023

Search: Bertagnolli M

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10 selected items

PubMed Results

Items 1-10 of 10 ([Display the 10 citations in PubMed](#))

1. [Dissecting the multicellular ecosystem of metastatic melanoma by single-cell RNA-seq.](#)

Tirosh I, Izar B, Prakadan SM, Wadsworth MH 2nd, Treacy D, Trombetta JJ, Rotem A, Rodman C, Lian C, Murphy G, Fallahi-Sichani M, Dutton-Regester K, Lin JR, Cohen O, Shah P, Lu D, Genshaft AS, Hughes TK, Ziegler CG, Kazer SW, Gaillard A, Kolb KE, Villani AC, Johannessen CM, Andreev AY, Van Allen EM, Bertagnolli M, Serger DK, Sullivan RJ, Elworthy KT, Frederick DT, Jané-Valbuena I, Yeon CH, Rozenblatt-Posen O, Shalek AK, Regev A, Carraway LA

Search Results Improvement: Truncating Lengthy Author Lists

6 results

Page 1 of 1

☐ 1 **Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)¹.**

Cite
Share
Klionsky DJ, Abdel-Aziz AK, Abdelfatah S, Abdellatif M, Abdoli A, Abel S, Abellovich H, Abildgaard MH, Abudu YP, Acevedo-Arozena A, Adamopoulos IE, Adeli K, Adolph TE, Adornetto A, Aflaki E, Agam G, Agarwal A, Aggarwal BB, Agnello M, Agostinis P, Agrewala JN, Agrotis A, Aguilar PV, Ahmad ST, Ahmed ZM, Ahumada-Castro U, Aits S, Aizawa S, Akkoc Y, Akoumianaki T, Akpınar HA, Al-Abd AM, Al-Akra L, Al-Gharaibeh A, Alaoui-Jamali MA, Alberti S, Alcocer-Gómez E, Alessandri C, Ali M, Alim Al-Bari MA, Aliwaini S, Alizadeh J, Almacellas E, Almasan A, Alonso A, Alonso GD, Altan-Bonnet N, Altieri DC, Álvarez ÉMC, Alves S, Alves da Costa C, Alzaharna MM, Amadio M, Amantini C, Amaral C, Ambrosio S, Amer AO, Ammanathan V, An Z, Andersen SU, Andrabi SA, Andrade-Silva M, Andres AM, Angelini S, Ann D, Anozie UC, Ansari MY, Antas P, Antebi A, Antón Z, Anwar T, Apetoh L, Apostolova N, Araki T, Araki Y, Arasaki K, Araújo WL, Araya J, Arden C, Arévalo MA, Arguelles S, Arias E, Arikath J, Arimoto H, Ariosa AR, Armstrong-James D, Arnauné-Pelloquin L, Aroca A, Arroyo DS, Arsov I, Artero R, Asaro DML, Aschner M, Ashrafizadeh M, Ashur-Fabian O, Atanasov AG, Au AK, Auberger P, Auner HW, Aurelian L, Autelli R...

[See abstract for full author list →](#)

Autophagy. 2021 Jan;17(1):1-382. doi: 10.1080/15548627.2020.1797280. Epub 2021 Feb 8.
PMID: 33634751 [Free PMC article.](#)

☐ 2 **Proceedings of the 3rd IPLEiria's International Health Congress : Leiria, Portugal. 6-7 May 2016.**

Cite
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Tomás CC, Oliveira E, Sousa D, Uba-Chupel M, Furtado G, Rocha C, Teixeira A, Ferreira P, Alves C, Gisin S, Catarino E, Carvalho N, Coucelo T, Bonfim L, Silva C, Franco D, González JA, Jardim HG, Silva R, Baixinho CL, Presado M^{PH}, Marques M^{PF}, Cardoso ME, Cunha M, Mendes J, Xavier A, Galhardo A, Couto M, Frade JG, Nunes C, Mesquita JR, Nascimento MS, Gonçalves G, Castro C, Mártires A, Monteiro M^{PJ}, Rainho C, Caballero FP, Monago FM, Guerrero JT, Monago RM, Trigo AP, Gutierrez ML, Milanés GM, Reina MG, Villanueva AG, Piñero AS, Aliseda IR, Ramirez FB, Ribeiro A, Quelhas A, Manso C, Caballero FP, Guerrero JT, Monago FM, Santos RB, Jimenez NR, Nuñez CG, Gomez IR, Fernandez M^{PJL}, Marquez LA, Moreno AL, Huertas M^{PJT}, Ramirez FB, Seabra D, Salvador M^{PC}, Braga L, Parreira P, Salgueiro-Oliveira A, Arreguy-Sena C, Oliveira BF, Henriques M^{PA}, Santos J, Lebre S, Marques A, Festas C, Rodrigues S, Ribeiro A, Lumini J, Figueiredo AG, Hernandez-Martinez FJ, Campi L, Quintana-Montesdeoca M^{PP}, Jimenez-Diaz JF, Rodriguez-De-Vera BC, Parente A, Mata M^{PA}, Pereira AM^P, Fernandes A, Brás M, Pinto M^{PR}, Parreira P, Basto ML, Rei AC, Mónico LM, Sousa G, Morna C, Freitas O, Freitas G, Jardim A, Vasconcelos ...

[See abstract for full author list →](#)

BMC Health Serv Res. 2016 Jul 6;16 Suppl 3(Suppl 3):200. doi: 10.1186/s12913-016-1423-5.
PMID: 27409075 [Free PMC article.](#)

Phrase Index Warning & Documentation



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Best match

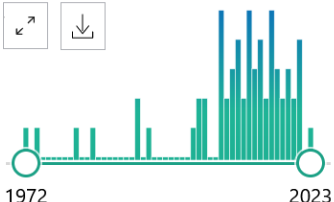
Display options

MY NCBI FILTERS

56 results

Page 1 of 6

RESULTS BY YEAR



1972 2023

TEXT AVAILABILITY

☐ Abstract

☐

Budgerigars adopt robust, but idiosyncra

1

Karmaker D, Groening J, Wilson M, Schiffner I, Sriniva

Sci Rep. 2020 Feb 13;10(1):2535. doi: 10.1038/s41598

PMID: 32054900 [Free PMC article.](#)

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We have investigated the paths taken by Budgerigar

nine Budgerigars (*Melopsittacus undulatus*) were rec

videography of their **flights** in an obstacle-free tunn

☐ Anticipatory Manoeuvres in Bird **Flight**.

Phrase index

PubMed uses a phrase index to provide phrase searching. To browse the phrase index, use the [Show Index feature](#) included in the [Advanced Search](#) builder: select a search field, enter the beginning of a phrase, and then click Show Index.

Quoted phrase not found

Phrases may appear in a PubMed record but not be in the phrase index. To search for a phrase that is not found in the phrase index, use a [proximity search](#) with a distance of 0 (e.g., "[cognitive impairment in multiple sclerosis](#)"[tiab:~0]); this will search for the quoted terms appearing next to each other, in any order.

Automated processes regularly add new phrases to the index based on standard criteria such as phrase frequency and length. If you would like to request a phrase be added to the phrase index, please [write to the NLM Help Desk](#).

PubMed Proximity Searching

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274 results « < Page

1

 of 28 > »

☐

Chronic migraine: risk factors, mechanisms and treatment.

1 May A. Schulte LH.

Cite Nat Rev Neurol. 2016 Aug;12(8):455-64. doi: 10.1038/nrneurol.2016.93. Epub 2016 Jul 8.

PMID: 27389092 Review.

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Treatment of resistant chronic migraine with anti-CGRP monoclonal antibodies: a systematic review.

2 Sevivas H, Fresco P.

Cite Eur J Med Res. 2022 Jun 4;27(1):86. doi: 10.1186/s40001-022-00716-w.

PMID: 35659086 **Free PMC article.** Review.

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☐**Current and emerging evidence-based treatment options in chronic migraine: a narrative review.**

3 Agostoni EC, Barbanti P, Calabresi P, Colombo B, Cortelli P, Frediani F, Geppetti P, Grazzi L, Leone M, Martelletti P, Pini LA, Prudenzano MP, Sarchielli P, Tedeschi G, Russo A; Italian chronic migraine group.

Cite J Headache Pain. 2019 Aug 30;20(1):92. doi: 10.1186/s10194-019-1038-4.

PMID: 31470791 **Free PMC article.** Review.

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☐**Fremanezumab for the Preventive Treatment of Chronic Migraine.**

4 Silberstein SD, Dodick DW, Bigal ME, Yeung PP, Goadsby PJ, Blankenbiller T, Grozinski-Wolff M, Yang R, Ma Y, Aycardi E.

Cite N Engl J Med. 2017 Nov 30;377(22):2113-2122. doi: 10.1056/NEJMoa1709038.

PMID: 29171818 **Free article.** Clinical Trial.

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"search terms"[field:~N]

- search terms = Two or more words enclosed in double quotes
- field = The search field tag for the [Title], [Title/Abstract], or [Affiliation] fields
- N = The maximum number of words that may appear between your search terms

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☐

Chronic migraine: risk factors, mechanisms and **treatment**.

1 May A. Schulte LH.

Cite Nat Rev Neurol. 2016 Aug;12(8):455-64. doi: 10.1038/nrneurol.2016.93. Epub 2016 Jul 8.

PMID: 27389092 Review.

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2 Sevivas H, Fresco P.

Cite Eur J Med Res. 2022 Jun 4;27(1):86. doi: 10.1186/s40001-022-00716-w.

PMID: 35659086 **Free PMC article.** Review.

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Current and emerging evidence-based **treatment** options in **chronic migraine**: a narrative review.

3 Agostoni EC, Barbanti P, Calabresi P, Colombo B, Cortelli P, Frediani F, Geppetti P, Grazzi L, Leone M, Martelletti P, Pini LA, Prudenzano MP, Sarchielli P, Tedeschi G, Russo A; Italian chronic migraine group.

Cite J Headache Pain. 2019 Aug 30;20(1):92. doi: 10.1186/s10194-019-1038-4.

PMID: 31470791 **Free PMC article.** Review.

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Fremanezumab for the Preventive **Treatment** of **Chronic Migraine**.

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Cite N Engl J Med. 2017 Nov 30;377(22):2113-2122. doi: 10.1056/NEJMoa1709038.

PMID: 29171818 **Free article.** Clinical Trial.

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Proximity Search Update: Affiliation Field

"Hopkins Bloomberg Public"[Affiliation:~45]

1 From the Department of Biostatistics, Bloomberg School of Public Health (J.M., E.M.S., A.E., C.M.C.) and Department of Neurology, Division of Brain Injury Outcomes (N.L.U., D.F.H.), Johns Hopkins Medical Institutions, Baltimore, MD; and Department of Neurosurgery, David Geffen School of Medicine at UCLA (N.M., P.V.)

7 Center for Child and Community Health Research (CCHR), Department of Pediatrics, Johns Hopkins School of Medicine, Johns Hopkins Bayview Medical Center, 5200 Eastern Ave, Mason F Lord Building, Center Tower, Suite 2015, Baltimore, MD, 21224, USA; Department of Epidemiology, Bloomberg School of Public Health, 615 N. Wolfe Street, Suite W6501, Baltimore, MD, 21205, USA.

Getting Help with Proximity Searching



- **PubMed User Guide:**
<https://pubmed.gov/help/#proximity-searching>
- **Proximity Searching Tutorial:**
<https://www.nlm.nih.gov/oet/ed/pubmed/quick tours/proximity/index.html>
- **Technical Bulletin Articles:**
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Display Options Update

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monoclonal antibodies

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RESULTS BY YEAR

1946 2024

336,817 results

1 ☐ Developments in therapy with monoclonal antibodies

Cite Shepard HM, Phillips GL, D Thanos C, Feldmann M.

PMID: 28572223 Free PMC article. Review.

Share **Monoclonal** antibody therapeutics have been approved for over 30 targets and diseases, most commonly cancer. ...Compared with small molecules, **monoclonal antibodies** (mAbs) have exquisite target selectivity and hence less toxicity as a result of binding other t ...

1 of 33,682 > >>

related proteins.

Best match
Most recent
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Journal

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Usability review and testing of filter interface

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