

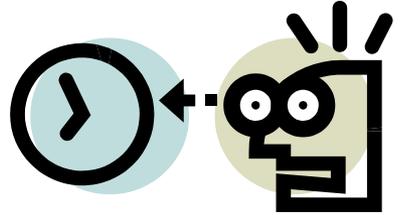
SMARTER SEARCHES: ADVANCED PUBMED TIPS FOR RESEARCHERS

Diana Loudon, Translational Research Librarian,
UW Health Sciences Library

2.2 Billion PubMed Searches in FY2012

- 22% increase in worldwide use of PubMed from FY 2011 to FY 2012.
- How many of those searches were yours?
- How many yielded the perfect article at the top of the page?

Savvier Searches: Making PubMed Work for You

- Common Questions & Points of Confusion
- Tips, Explanations, & Work-Arounds
- Goal: Equip You With Tools to be a More Effective Searcher. Find What You Need Faster. An icon consisting of a light blue clock face on the left and a stylized person with a lightbulb above their head on the right, connected by a horizontal line. The person is black with white eyes and a yellow lightbulb above their head.
- 15-Minute Rule (*If you can't find what you need after 15 minutes of searching, contact your librarian!*)

Your Librarian Can Provide One-On-One Research Assistance

<http://libguides.hsl.washington.edu/liaisons>

UW Libraries | NNLM Pacific Northwest Region | HEAL-WA UW Home | MyUW | Maps | UW Directories off-campus access (log in)

HEALTH SCIENCES LIBRARY
UNIVERSITY of WASHINGTON
University Libraries

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Meeting the educational, research and clinical information needs of the UW community.

Health Sciences » LibGuides » All Health Sciences Librarians Admin Sign In

All Health Sciences Librarians

Last Updated: Mar 21, 2013 | URL: <http://libguides.hsl.washington.edu/liaisons> | [Print Guide](#) | [RSS Updates](#) | [SHARE](#) [f](#) [t](#) [e](#) ...

Home | Librarian Pages
Search: This Guide ▼ Search

HSL Library Liaison Program

Library Liaisons serve the University of Washington health sciences community by supporting teaching, clinical, and research needs through our library collections, services, and resources.

Contact the liaison for your department listed to the right, or send email to hsl@u.washington.edu for more information.

Comments (0)

Locate by School Department, Program

Locate by School, Department, Program
Jump to: [A](#)[B](#)[C](#)[D](#)[E](#)[F](#)[G](#)[H](#)[I](#)[J](#)[K](#)[L](#)[M](#)[N](#)[O](#)[P](#)[R](#)[S](#)[T](#)[U](#)[V](#)

A	Back to Top
Aging, Institute on	Ann Gleason
AIDS Clinical Trials Unit	Sherry Dodson
Airlift Northwest	Amy Harper
Alcohol & Drug Abuse Institute	Ann Gleason
Allergy & Infectious Diseases	Sherry Dodson
Anesthesiology	Joanne Rich
B	Back to Top
Biochemistry	Diana Louden
Bioengineering	Diana Louden
Bioethics & Humanities	Leilani St. Anna
Biological Structure	Diana Louden
Biomedical Informatics & Medical Education (BIME)	Leilani St. Anna
Biostatistics	Ann Gleason
C	Back to Top
Cardiology	Sherry Dodson
Center on Human Development & Disability	Leilani St. Anna, and Janet Schnall
Clinical Scholars Program	Sherry Dodson
Comparative Medicine	Terry Ann Jankowski
Critical Care Medicine	Sherry Dodson

HSL Liaisons

Comments (0)

Chat with a Health Sciences Librarian

Available from 10 am to 3 pm M - F.
Other times email response is within 24 hours.

Locate by Liaison

- Bardyn, Tania - Director
- Dodson, Sherry
- Gleason, Ann
- Harper, Amy
- Jankowski, Terry Ann
- Louden, Diana
- Oberg, Lisa
- Rich, Joanne
- Safranek, Sarah
- St. Anna, Leilani
- Schnall, Janet

Why did I only find two articles by Paul O. Sheppard in PubMed? I know he wrote more than that.

Pitfall #1

PubMed [RSS](#) [Save search](#) [Advanced](#)

[Display Settings:](#) Summary, Sorted by Recently Added [Send to:](#)

Results: 2

- [The role of genomic data in the discovery, annotation and evolutionary interpretation of the interferon-lambda family.](#)
 1. [interferon-lambda family.](#)
Fox BA, Sheppard PO, O'Hara PJ.
PLoS One. 2009;4(3):e4933. doi: 10.1371/journal.pone.0004933. Epub 2009 Mar 20.
PMID: 19300512 [PubMed - indexed for MEDLINE] [Free PMC Article](#)
[Related citations](#)

- [A glycoprotein hormone expressed in corticotrophs exhibits unique binding properties on thyroid-stimulating hormone receptor.](#)
 2. [stimulating hormone receptor.](#)
Okada SL, Ellsworth JL, Durnam DM, Haugen HS, Holloway JL, Kelley ML, Lewis KE, Ren H, Sheppard PO, Storey HM, Waggle KS, Wolf AC, Yao LY, Webster PJ.
Mol Endocrinol. 2006 Feb;20(2):414-25. Epub 2005 Oct 6.
PMID: 16210345 [PubMed - indexed for MEDLINE] [Free Article](#)
[Related citations](#)

Author Searching: Greatest accurate retrieval by using last name and initials

Tip #1

PubMed [RSS](#) [Save search](#) [Advanced](#)

[Display Settings:](#) Summary, 50 per page, Sorted by Recently Added [Send to:](#)

Results: 17

- [The role of genomic data in the discovery, annotation and evolutionary interpretation of the interferon-lambda family.](#)
Fox BA, Sheppard PO, O'Hara PJ.
PLoS One. 2009;4(3):e4933. doi: 10.1371/journal.pone.0004933. Epub 2009 Mar 20.
PMID: 19300512 [PubMed - indexed for MEDLINE] [Free PMC Article](#)
[Related citations](#)
- [A glycoprotein hormone expressed in corticotrophs exhibits unique binding properties on thyroid-stimulating hormone receptor.](#)
Okada SL, Ellsworth JL, Durnam DM, Haugen HS, Holloway JL, Kelley ML, Lewis KE, Ren H, Sheppard PO, Storey HM, Waggle KS, Wolf AC, Yao LY, Webster PJ.
Mol Endocrinol. 2006 Feb;20(2):414-25. Epub 2005 Oct 6.
PMID: 16210345 [PubMed - indexed for MEDLINE] [Free Article](#)
[Related citations](#)
- [Cloning and characterization of a human orphan family C G-protein coupled receptor GPRC5D.](#)
Bräuner-Osborne H, Jensen AA, Sheppard PO, Brodin B, Krogsgaard-Larsen P, O'Hara P.
Biochim Biophys Acta. 2001 Apr 16;1518(3):237-48.
PMID: 11311935 [PubMed - indexed for MEDLINE]
[Related citations](#)
- [Platelet-derived growth factor C \(PDGF-C\), a novel growth factor that binds to PDGF alpha and beta receptor.](#)
Gilbertson DG, Duff ME, West JW, Kelly JD, Sheppard PO, Hofstrand PD, Gao Z, Shoemaker K, Bukowski TR, Moore M, Feldhaus AL, Humes JM, Palmer TE, Hart CE.
J Biol Chem. 2001 Jul 20;276(29):27406-14. Epub 2001 Apr 10.
PMID: 11297552 [PubMed - indexed for MEDLINE] [Free Article](#)
[Related citations](#)

Searching for an Author's Full Name Only Works for Recent Articles

Explanation

- Looks are deceiving.
- Ability to search with an author's full name was enabled starting in 2002, but was not retroactive.
- For the most thorough results, search for the author's last name plus initials (no punctuation)
- Using the field tag [au] is optional
- Example: **Sheppard PO**

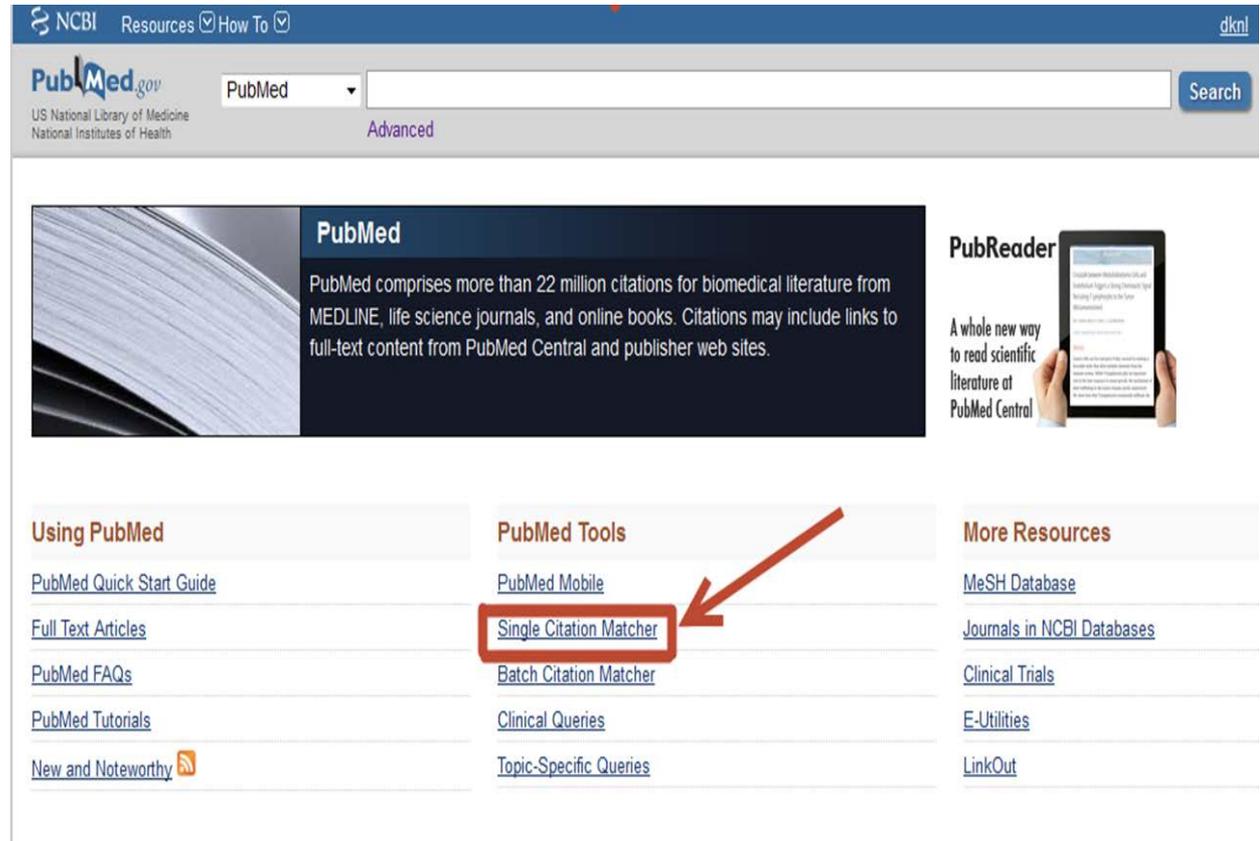
I wanted to find a specific article, not every article on a topic.

Pitfall #2

- I read a news article reporting on a new analysis of the correlation between hormone replacement therapy and breast cancer. The news article only gave the journal name and the lead investigator's name.
- How can I find this specific article and not every article about HRT and breast cancer?
- A PubMed search for “breast cancer hormone replacement therapy” turns up over 4,000 references.

Use Single Citation Matcher to Find a Specific Known Article

Tip #2



NCBI Resources How To dknl

PubMed.gov PubMed Search

US National Library of Medicine
National Institutes of Health

Advanced

PubMed

PubMed comprises more than 22 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

PubReader

A whole new way to read scientific literature at PubMed Central

Using PubMed

- [PubMed Quick Start Guide](#)
- [Full Text Articles](#)
- [PubMed FAQs](#)
- [PubMed Tutorials](#)
- [New and Noteworthy](#)

PubMed Tools

- [PubMed Mobile](#)
- [Single Citation Matcher](#)**
- [Batch Citation Matcher](#)
- [Clinical Queries](#)
- [Topic-Specific Queries](#)

More Resources

- [MeSH Database](#)
- [Journals in NCBI Databases](#)
- [Clinical Trials](#)
- [E-Utilities](#)
- [LinkOut](#)

Fill in Just the Fields You're Sure Of

Explanation

PubMed Single Citation Matcher

Use this tool to find PubMed citations. You may omit any field.

Journal • Help

Journal of the National Cancer Institute

Date

2013

(month and day are optional)

Details

Volume

Issue

First page

Author name • Help

Chlebowski R

Limit authors

Only as first author

Only as last author

Title words

Search

[Clear form](#)

Easily spot the article you're looking for and follow the link to the full text.

Display Settings: Abstract

Send to:

ADVANCE ACCESS
OXFORD JOURNALS

Check for Full Text

J Natl Cancer Inst. 2013 Mar 29. [Epub ahead of print]

Estrogen Plus Progestin and Breast Cancer Incidence and Mortality in the Women's Health Initiative Observational Study.

Chlebowski RT, Manson JE, Anderson GL, Cauley JA, Aragaki AK, Stefanick ML, Lane DS, Johnson KC, Wactawski-Wende J, Chen C, Qi L, Yasmeen S, Newcomb PA, Prentice RL.

Save items

★ Add to Favorites

ARTICLE

Estrogen Plus Progestin and Breast Cancer Incidence and Mortality in the Women's Health Initiative Observational Study

Rowan T. Chlebowski, JoAnn E. Manson, Garnet L. Anderson, Jane A. Cauley, Aaron K. Aragaki, Marcia L. Stefanick, Dorothy S. Lane, Karen C. Johnson, Jean Wactawski-Wende, Chu Chen, Lihong Qi, Shagufta Yasmeen, Polly A. Newcomb, Ross L. Prentice

Manuscript received August 27, 2012; revised January 20, 2013; accepted February 13, 2013.

Correspondence to: Rowan T. Chlebowski, MD, PhD, Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, 1124W Carson St, Torrance, CA, 90502 (e-mail: rowanchlebowski@gmail.com).

Background

In the Women's Health Initiative (WHI) randomized trial, estrogen plus progestin increased both breast cancer incidence and mortality. In contrast, most observational studies associate estrogen plus progestin with favorable prognosis breast cancers. To address differences, a cohort of WHI observational study participants with characteristics similar to the WHI clinical trial was studied.

There are So Many Links on the PubMed Screen. I Just Ignore All of Them.

Pitfall #3

The screenshot shows a PubMed search results page for the query "il28b polymorphism". The page is cluttered with various links and filters. On the left, there are filters for "Article types" (Clinical Trial, Meta-Analysis, Review, Systematic Reviews, more...), "Text availability" (Abstract available, Free full text available, Full text available), "Publication dates" (5 years, 10 years, Custom range...), and "Species" (Humans, Other Animals). The main results area shows "Results: 1 to 50 of 383" and lists five articles. The first article is "Role of Interleukin-28B Polymorphism as a Predictor of Sustained Virological Response in Patients with Chronic Hepatitis C Treated with Triple Therapy: A Systematic Review and Meta-Analysis" by Bota S, Sporea I, Sirli R, Neghină AM, Popescu A, Străin M. The second article is "Lack of clinical and histological progression of chronic hepatitis C in individuals with true persistently normal ALT: the result of a 17-year follow-up" by Nunnari G, Pinzone MR, Cacopardo B. The third article is "Genetic variations in host IL28B links to the detection of peripheral blood mononuclear cells-associated hepatitis C virus RNA in chronically infected patients" by Angulo J, Pino K, Pavez C, Biel F, Labbé P, Miquel JF, Soza A, López-Lastra M. The fourth article is "IL28B Polymorphism Correlates with Active Hepatitis in Patients with HBeAg-Negative Chronic Hepatitis B" by Lee IC, Lin CH, Huang YH, Huo TI, Su CW, Hou MC, Huang HC, Lee KC, Chan CC, Lin MW, Lin HC, Lee SD. The fifth article is "IL28B SNP screening and distribution in the French Canadian population using a rapid PCR-based test" by Gélinas JF, Fabre T, Willems P, Leung RC, George J, Willems B, Bruneau J, Shoukry NH. On the right, there are filters for "Filter your results:" (All (383), Clinical Trial (38), English (367), Free Full Text (101), Humans (338), Links to Gene (170), Meta-Analysis (5), Other Animals (9), Review (49), University of Washington Online (311), UW author affiliation (1)), "Related searches" (il28b polymorphism hcv), "PMC Images search for il28b polymorphism" (showing several small images), and "Titles with your search terms" (An IL28B polymorphism determines treatment).

Train Yourself to Focus on Key Sections

Tip #3

- **Filters**: useful, common ways to narrow your search

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed il28b polymorphism Search

RSS Save search Advanced Help

Display Settings: Summary, 50 per page, Sorted by Recently Added Send to:

See 196 articles about [IL28B gene function](#)
See also: [IL28B interleukin 28B \(interferon_lambda 3\)](#) in the Gene database
[il28b](#) in [Bos taurus](#) | [Gallus gallus](#) | [Macaca mulatta](#) | [All 15 Gene records](#)

Results: 1 to 50 of 383 << First < Prev Page 1 of 8 Next > Last >>

[Role of Interleukin-28B Polymorphism as a Predictor of Sustained Virological Response in Patients with Chronic Hepatitis C Treated with Triple Therapy: A Systematic Review and Meta-Analysis.](#)
Bota S, Sporea I, Sirlu R, Neghină AM, Popescu A, Străin M.
Clin Drug Investig. 2013 Mar 27. [Epub ahead of print]
PMID: 23532802 [PubMed - as supplied by publisher]
[Related citations](#)

[Lack of clinical and histological progression of chronic hepatitis C in individuals with true persistently normal ALT: the result of a 17-year follow-up.](#)
Nunnari G, Pinzone MR, Cacopardo B.
J Viral Hepat. 2013 Apr;20(4):e131-7. doi: 10.1111/jvh.12029. Epub 2012 Dec 5.
PMID: 23490382 [PubMed - in process]
[Related citations](#)

[Genetic variations in host IL28B links to the detection of peripheral blood mononuclear cells-associated hepatitis C virus RNA in chronically infected patients.](#)
Angulo J, Pino K, Pavez C, Biel F, Labbé P, Miquel JF, Soza A, López-Lastra M.
J Viral Hepat. 2013 Apr;20(4):263-72. doi: 10.1111/jvh.12076.
PMID: 23490371 [PubMed - in process]
[Related citations](#)

Filter your results:
All (383)
[Clinical Trial \(38\)](#)
[English \(367\)](#)
[Humans \(338\)](#)
[Links to Gene \(170\)](#)
[Published in the last 2 years \(312\)](#)
[Review \(49\)](#)
[University of Washington Online \(311\)](#)
[UW author affiliation \(1\)](#)
[Manage Filter](#)

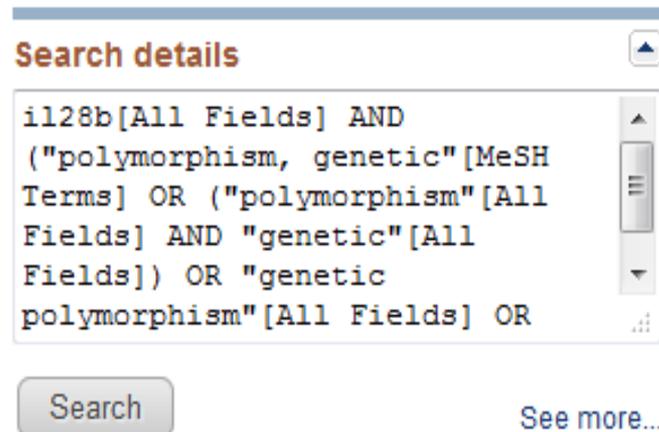
Related searches
il28b polymorphism hcv

PMC Images search for [il28b polymorphism](#)

Train Yourself to Focus on Key Sections (continued)

Tip #3 continued

- **Search details** lets you see how PubMed interpreted your search. Helps you select MeSH terms or see what to change.



My PubMed Search Screen Doesn't Look Like Yours

Pitfall #4

- ❑ **Libraries can customize PubMed** to link to their electronic journal subscriptions. You can make best use of your full-text journal access by specifying your library in your My NCBI account.
- ❑ **Individuals can also customize PubMed within My NCBI** to make it more useful. This includes modifying your search interface and filters.

Set Up a My NCBI Account and Customize Your Filters

Tip #4

Set up a My NCBI Account.

Customize your filters and site preferences.

Specify your library.

Sign in when you search.

[Sign in to NCBI](#)

<http://libguides.hsl.washington.edu/myncbi>

The screenshot shows the MyNCBI page with a dark blue header for the Health Sciences Library. The main content area is white with yellow accents. It includes a navigation menu, a search bar, and several informational sections.

UW Libraries | NNLM Pacific Northwest Region | HEAL-WA | UW Home | MyUW | Maps | UW Directories | off-campus access (log in)

W HEALTH SCIENCES LIBRARY
UNIVERSITY of WASHINGTON
University Libraries

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Meeting the educational, research and clinical information needs of the UW community.

Health Sciences » LibGuides » MyNCBI | dkn1@uw.edu « Guide Admin « Dashboard « Sign Out
Tags: email alerts, my ncbi, pubmed, uw online links

MyNCBI
Last Updated: Apr 4, 2013 | URL: <http://libguides.hsl.washington.edu/myncbi> | Print Guide | RSS Updates | SHARE | f | t | e | ...

Home | Saving Searches/Auto Alerts | Stored Searches | Saving Results | Search Filters /Site Preferences

Home | Print Page | Search: | This Guide | Search

PubMed: My NCBI

My NCBI is your personal space on the NLM computer system for saving searches, search results, PubMed preferences, and for creating automatic email alerts. **Click on the My NCBI link at the top right of the PubMed window to get started.**

PubMed My NCBI Registration is required (available at no charge).
Note: To use My NCBI, you must have cookies enabled to allow pop-up windows from ncbi.nlm.nih.gov. The Safari browser is not recommended.

Pages are available for (click tab):

- Saving your search and creating automatic e-mail alerts
- Managing searches
- Saving results in Collections and My Bibliography
- Search Filters
- Using Preferences and Showing UW Online Links

Related Links

- [My NCBI Help \[NLM\]](#)
- [PubMed at the UW](#)
- [Browser Advice for NCBI Web Pages](#)

Instructional Videos

To watch the instructional video clips (video), the Adobe Flash Player is required.

- Changing Your Default Display Settings (2 min.)
- Collections (3 min.)
 - Editing Collections (3 min.)
 - Sharing Collections (2 min.)
- Creating Your Bibliography (4 min.)
- E-mail Alerts for Articles from Your Favorite Journals (4 min.)
- Filters (3 min.)
 - Links to Full Text from Your Library (Library LinkOut Filters) (3 min.)
 - Custom Filters (2 min.)
- Retrieving Your My NCBI Username or Password (2 min.)
- Saving Searches (4 min.)
- Changing Saved Searches (2 min.)

Key Benefit of Customizing Filters: Easier Access to Full-Text Journal Articles

Everyone can use the “free full text available” filter on the left side of the screen.

Articles can also be ordered through your library’s document delivery service.

- Consider limiting your search to articles available immediately through your library’s electronic subscriptions.

Filter your results:

All (613)

[Clinical Trial \(52\)](#)

[English \(590\)](#)

[Humans \(473\)](#)

[Links to Gene \(204\)](#)

[Published in the last 2 years \(487\)](#)

[Review \(90\)](#)

[University of Washington Online \(493\)](#)

- When viewing a PubMed abstract, look for your library’s full-text icon (if there’s no free full text icon).



- Note to UW users: If the publisher’s full-text link prompts you to log in or pay, and if there is no purple “UW Article Online” icon, **always click on the purple & gold “Check for Full Text” icon.** Many UW subscriptions can only be accessed this way.

I Must Have Done Something Wrong. A Completely Irrelevant Article is at the Top of my Search Results.

Pitfall #5

 would have known what I meant!

PubMed

[RSS](#) [Save search](#) [Advanced](#)

Display Settings: Summary, 20 per page, Sorted by Recently Added [Send to:](#)

Results: 1 to 20 of 1279 [<< First](#) [< Prev](#) Page 1 of 64 [Next >](#) [Last >>](#)

- [\[Introduction to novel vaccine adjuvants and their role in influenza vaccination\].](#)
Haensler J.
Ann Pharm Fr. 2013 Mar;71(1):10-16. doi: 10.1016/j.pharmfr.2013.03.001. Epub 2013 Mar 1. French.
PMID: 23537411 [PubMed - as supplied by publisher] [Related citations](#)
- [M2e-Displaying Virus-Like Particles Promote T Helper 1 Type Adaptive Immunity against Influenza A.](#)
Ibañez LI, Roose K, De Filippis M, Hens N, Roels S, Pollard C, Schepens B, Grooten J, Fiers W, Sutmoller G.
PLoS One. 2013;8(3):e68811. doi: 10.1371/journal.pone.0068811. Epub 2013 Mar 18.
PMID: 23527091 [PubMed - as supplied by publisher] [Free PMC Article](#) [Related citations](#)
- [Modified vaccinia virus Ankara: Innate immune activation and induction of cellular signalling.](#)
Price PJ, Torres-Dominguez LE, Brandmüller C, Sutter G, Lehmann MH.
Vaccine. 2013 Mar 20. doi:10.1016/j.vaccine.2013.03.017. [Epub ahead of print]
PMID: 23523404 [PubMed - as supplied by publisher] [Related citations](#)

recombinant influenza vaccine

[Web](#) [Images](#) [Maps](#) [Shopping](#) [Nose](#) [More](#) [Search to](#)

About 230,000 results (0.26 seconds)

Ad related to **recombinant influenza vaccine**

[Influenza Vaccine - Arm Yourself Against the Flu](#)

[www.walgreens.com/flu](#)

Schedule Online or Walk-Ins Welcome

[Schedule Flu Shot](#)

[Flu Center](#)

[List of Vaccines Offered](#)

[Schedule An Appointment](#)

Scholarly articles for **recombinant influenza vaccine**

[... recombinant influenza vaccine induces efficient long-acting influenza vaccine candidate comprising a recombinant M2e-Displaying Virus-Like Particles Promote T Helper 1 Type Adaptive Immunity against Influenza A. - Huleatt - Cited by 169](#)

[FDA Approves First Trivalent Influenza Vaccine Made Using Recombinant Technology. Omitting Reliance on Eggs, Flu Virus Allows Speedier ...](#)

[www.aafp.org > ... > News > AAFP News Now > Health of the Public](#)

Jan 23, 2013 – FDA Approves First Trivalent Influenza Vaccine Made Using Recombinant Technology. Omitting Reliance on Eggs, Flu Virus Allows Speedier ...

[FDA approves new seasonal influenza vaccine made using recombinant technology](#)

[www.fda.gov/NewsEvents/Newsroom/.../ucm335891.htm](#)

Jan 16, 2013 – As it does with all influenza vaccines, the FDA will evaluate Flublok annually prior to use by the public each flu season. The recombinant HA ...

GOOGLE AND PUBMED: DIFFERENT MINDSETS

Google: Essential Facts

- Content: The endless internet, its metadata, & other “mineable” elements as read by search algorithms.
- Creator: Commercial institution
- Search Tips: Get good results with natural language queries.
- Transparency: Intentional black box
- Search Results: Ranked by relevance based on keywords, what’s popular, how many reputable sites link to it, and what you’ve looked at before.

PubMed: Essential Facts

- Content: Traditional journal article database (over 5,000 journals back to 1940s) indexed by humans
- Creator: US Government institution
- Search Tips: Improve results by using defined search fields, recommended search terminology, & help screens
- Transparency: “Search Details” box explains how your search was interpreted.
- Search Results: **ALL** results match your search criteria. Most recent references listed first.

Tip #5: Adopt Different Mindsets for Different Search Interfaces

The Google logo is displayed in its characteristic multi-colored font (blue, red, yellow, blue, green, red) on a white rectangular background, which is centered within an orange horizontal bar.

- Results organized with most relevant items listed first
- Optimized to connect you to the “top” references.
- Nobody looks at “all” references. Everything is shades of gray – ever-decreasing grades of relevance.

The PubMed logo features the word 'PubMed' in a blue, sans-serif font. The 'M' is stylized with a white book icon integrated into its left side. The logo is centered on a white rectangular background within a gold horizontal bar.

- PubMed results: organized with most recent items listed first.
- Designed to retrieve ALL references that meet search criteria.
- PubMed offers some auxiliary search approaches that involve relevance ranking.

A Multi-Step Strategy Works Best in PubMed, But There Are Google-Like Approaches

Tip #5b

Google-like approaches in PubMed include looking at “Titles with your search terms” to find a few relevant references.

PubMed [RSS](#) [Save search](#) [Advanced](#) [Help](#)

Display Settings: Summary, 20 per page, Sorted by Recently Added **Send to:** **Filter your results:**

Results: 1 to 20 of 1279 << First < Prev Page 1 of 64 Next > Last >>

[\[Introduction to novel vaccine adjuvants and their role in influenza vaccination\].](#)
1. Haensler J.
Ann Pharm Fr. 2013 Mar;71(2):104-8. doi: 10.1016/j.pharma.2013.01.003. Epub 2013 Mar 1. French.
PMID: 23537411 [PubMed - in process]
[Related citations](#)

[M2e-Displaying Virus-Like Particles with Associated RNA Promote T Helper 1 Type Adaptive Immunity against Influenza A.](#)
2. Ibañez LI, Roose K, De Filette M, Schotsaert M, De Sloovere J, Roels S, Pollard C, Schepens B, Grooten J, Fiers W, Saelens X.
PLoS One. 2013;8(3):e59081. doi: 10.1371/journal.pone.0059081. Epub 2013 Mar 18.
PMID: 23527091 [PubMed - in process] [Free PMC Article](#)
[Related citations](#)

[Modified vaccinia virus Ankara: Innate immune activation and induction of cellular signalling.](#)
3. Price PJ, Torres-Domínguez LE, Brandmüller C, Sutter G, Lehmann MH.
Vaccine. 2013 Mar 20. doi:pii: S0264-410X(13)00301-0. 10.1016/j.vaccine.2013.03.017. [Epub ahead of print]
PMID: 23523404 [PubMed - as supplied by publisher]
[Related citations](#)

[Protective efficacy of Modified Vaccinia virus Ankara in preclinical studies.](#)
4. Volz A, Sutter G.
Vaccine. 2013 Mar 20. doi:pii: S0264-410X(13)00301-0. 10.1016/j.vaccine.2013.03.017. [Epub ahead of print]
PMID: 23523402 [PubMed - as supplied by publisher]
[Related citations](#)

[Cooperativity Between CD8+ T Cells. Not Important for Heterosubtypic Influenza Virus Infection.](#)
5. Laidlaw BJ, Decman V, Ali MA, Abt MC, W D, Erikson J, Wherry EJ.
Vaccine. 2011 Oct 13; 29(44):7733-9. Epub 2011 Aug 9.

Filter your results:
All (1279)
[Diagnosis/Narrow \(36\)](#)
[Etiology/Narrow \(10\)](#)
Nursing Journals (0)
[Prognosis/Narrow \(2\)](#)
[Review \(125\)](#)
[Systematic Reviews \(7\)](#)
[Therapy/Narrow \(59\)](#)
[University of Washington Online \(821\)](#)
[Manage Filters](#)

Results by year

[Download CSV](#)

Titles with your search terms
Protective efficacy of a trivalent **recombinant** hemagglutinin protein **vaccine** (F) [Vaccine. 2011]
The human potential of a **recombinant** pandemic **influe** [Hum Vaccin Immunother. 2012]
Oligomeric **recombinant** H5 HA1 **vaccine** produced in bacteria protects ferret [J Virol. 2012]
[See more...](#)

Follow the “Related Citations” Link for a Set of Relevance-Ranked References

Tip #5c – another “Google like” approach:

1. Identify a useful reference.

2. “Related Citations in PubMed” will connect you to a list of about 100 references on the same topic. (Click on “See all.”)

Display Settings: Abstract

Send to:

ELSEVIER FULL-TEXT ARTICLE CLINICAL KEY

UW ARTICLE ONLINE Check for Full Text W

Vaccine. 2011 Oct 13;29(44):7733-9. doi: 10.1016/j.vaccine.2011.07.128. Epub 2011 Aug 9.

Protective efficacy of a trivalent recombinant hemagglutinin protein vaccine (FluBlok®) against influenza in healthy adults: a randomized, placebo-controlled trial.

Treanor JJ, El Sahly H, King J, Graham I, Izikson R, Kohberger R, Patriarca P, Cox M.

University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642, USA. John.Treanor@urmc.rochester.edu

Abstract

BACKGROUND: Development of influenza vaccines that do not use embryonated eggs as the substrate for vaccine production is a high priority. We conducted this study to determine the protective efficacy a recombinant, baculovirus-expressed seasonal trivalent influenza virus hemagglutinin (rHA0) vaccine (FluBlok®).

METHODS: Healthy adult subjects at 24 centers across the US were randomly assigned to receive a single injection of saline placebo (2304 subjects), or trivalent FluBlok containing 45 mcg of each rHA0 component (2344 subjects). Serum samples for assessment of immune responses by hemagglutination-inhibition (HAI) were taken from a subset of subjects before and 28 days after immunization. Subjects were followed during the 2007-2008 influenza season and combined nasal and throat swabs for virus isolation were obtained from subjects reporting influenza-like illness.

RESULTS: Rates of local and systemic side effects were low, and the rates of systemic side effects were similar in the vaccine and placebo groups. HAI antibody responses were seen in 78%, 81%, and 52% of FluBlok recipients to the H1, H3, and B components, respectively. FluBlok was 44.6% (95% CI, 18.8%, 62.6%) effective in preventing culture-confirmed influenza meeting the CDC influenza-like illness case definition despite significant antigenic mismatch between the vaccine antigens and circulating viruses.

CONCLUSIONS: Trivalent rHA0 vaccine was safe, immunogenic and effective in the prevention of culture confirmed influenza illness, including protection against drift variants.

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PMID: 21835220 [PubMed - indexed for MEDLINE] [Free full text](#)

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Safety and immunogenicity of a baculovirus-expressed hemagglutinin influenza [JAMA. 2007]

Safety, efficacy, and immunogenicity of an inactivated influenza vaccii [BMC Infect Dis. 2010]

A nasally administered trivalent inactivated influenza vaccine is well tolerated [Vaccine. 2011]

[Review](#) Seasonal influenza vaccines. [Curr Top Microbiol Immunol. 2009]

[Review](#) Live attenuated influenza vaccine (FluMist®; Fluenz™): a review of its [Drugs. 2011]

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Cited by 3 PubMed Central articles

Safety and immunogenicity of a plant-produced recombinant hemagglutinin-based [Viruses. 2012]

Pandemic influenza vaccine: characterization of A/California/07/2009 (H1N1) [BMC Biotechnol. 2012]

A carboxy-terminal trimerization domain stabilizes conformational epitop [PLoS One. 2012]

I Just Wanted a Few Good References, Not Thousands

Pitfall #6

PubMed

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Results: 1 to 50 of 3075  << First < Prev Page of 62 Next > Last >>

- [Pharmacokinetic characterization of CK2 inhibitor CX-4945.](#)
 1. Son YH, Song JS, Kim SH, Kim J.
Arch Pharm Res. 2013 Mar 31. [Epub ahead of print]
PMID: 23543629 [PubMed - as supplied by publisher]
[Related citations](#)

- [β-catenin/POU5F1/SOX2 transcription factor complex mediates IGF-1 receptor signaling and predicts poor prognosis in lung adenocarcinoma.](#)
 2. Xu C, Xie D, Yu SC, Yang XJ, He LR, Yang J, Ping YF, Wang B, Yang L, Xu SL, Cui W, Wang QL, Fu WJ, Liu Q, Qian C, Cui YH, Rich JN, Kung HF, Zhang X, Bian XW.
Cancer Res. 2013 Mar 28. [Epub ahead of print]
PMID: 23539445 [PubMed - as supplied by publisher]
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Steps for Building a Search Strategy Using MeSH Terms (Medical Subject Headings)

Tip #6

Get in the PubMed Mindset.

Use a multi-step strategy to conduct a thorough search and retrieve highly relevant references.

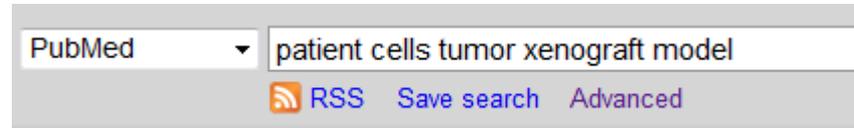
1. Try to identify 1-3 relevant references.
 - a. Dream up a perfect title, and search for significant words from your dream title.
 - b. Search for specific phrases using quotation marks.
2. Select MeSH terms that have been applied to the best references.
3. Build a strategy using a combination of MeSH terms, individual words, or phrases.
4. Apply filters such as a publication type, a patient population, a date range, or a language.

Find a couple of relevant references. These are your pearls.

Step #1:

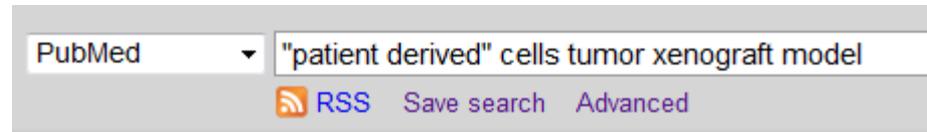
Narrow your search until you can identify a couple of relevant references.

- We're looking for the use of patient-derived cells in a tumor xenograft animal model.



PubMed [RSS](#) [Save search](#) [Advanced](#)

- Our original search yielded 3,075 references. References weren't on target.
- Now we try a more specific search strategy requiring that the phrase "patient derived" appear in the title or abstract.



PubMed [RSS](#) [Save search](#) [Advanced](#)

- Searching for a specific phrase narrowed our search to 103 references, and they're more relevant.

Determine the Best MeSH Terms to Add to Your Search.

Combine MeSH Terms With Other Words or Phrases.

Steps #2-3:

Select MeSH terms.

Add them to your search.

Include additional non-MeSH terms as needed.

[Display Settings:](#) Abstract

[Send to:](#)

[Neoplasia](#), 2012 Jun;14(6):519-25.

Sensitization of pancreatic cancer stem cells to gemcitabine by Chk1 inhibition.

[Venkatesha VA](#), [Parsels LA](#), [Parsels JD](#), [Zhao L](#), [Zabludoff SD](#), [Simeone DM](#), [Maybaum J](#), [Lawrence TS](#), [Morgan MA](#).
Department of Radiation Oncology, University of Michigan Medical School, Ann Arbor, MI 48109-5637, USA.

Abstract

Checkpoint kinase 1 (Chk1) inhibition sensitizes pancreatic cancer cells and tumors to gemcitabine. We hypothesized that Chk1 inhibition would sensitize pancreatic cancer stem cells to gemcitabine. We tested this hypothesis by using two patient-derived xenograft models (designated J and F) and the pancreatic cancer stem cell markers CD24, CD44, and ESA. We determined the percentage of marker-positive cells and their tumor-initiating capacity (by limiting dilution assays) after treatment with gemcitabine and the Chk1 inhibitor, AZD7762. We found that marker-positive cells were significantly reduced by the combination of gemcitabine and AZD7762. In addition, secondary tumor initiation was significantly delayed in response to primary tumor treatment with gemcitabine + AZD7762 compared with control, gemcitabine, or AZD7762 alone. Furthermore, for the same number of stem cells implanted from gemcitabine- versus gemcitabine + AZD7762-treated primary tumors, secondary tumor initiation at 10 weeks was 83% versus 43%, respectively. We also found that pS345 Chk1, which is a measure of DNA damage, was induced in marker-positive cells but not in the marker-negative cells. These data demonstrate that Chk1 inhibition in combination with gemcitabine reduces both the percentage and the tumor-initiating capacity of pancreatic cancer stem cells. Furthermore, the finding that the Chk1-mediated DNA damage response was greater in stem cells than in non-stem cells suggests that Chk1 inhibition may selectively sensitize pancreatic cancer stem cells to gemcitabine, thus making Chk1 a potential therapeutic target for improving pancreatic cancer therapy.

PMID: 22787433 [PubMed - indexed for MEDLINE] PMCID: PMC3394194 [Free PMC Article](#)

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[Research Support, Non-U.S. Gov't](#)

MeSH Terms

[Animals](#)
[Antimetabolites, Antineoplastic/administration & dosage](#)
[Antimetabolites, Antineoplastic/pharmacology*](#)
[Deoxytydine/administration & dosage](#)
[Deoxytydine/analogs & derivatives*](#)
[Deoxytydine/pharmacology](#)
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[Neoplastic Stem Cells/drug effects*](#)
[Neoplastic Stem Cells/metabolism*](#)
[Pancreatic Neoplasms/drug therapy](#)
[Pancreatic Neoplasms/metabolism*](#)
[Protein Kinase Inhibitors/administration & dosage](#)
[Protein Kinase Inhibitors/pharmacology*](#)
[Protein Kinases/metabolism*](#)
[Tumor Burden/drug effects](#)
[Xenograft Model Antitumor Assays](#)

Substances

[Antimetabolites, Antineoplastic](#)
[Protein Kinase Inhibitors](#)
[gemcitabine](#)
[Deoxytydine](#)
[Protein Kinases](#)
[Checkpoint kinase 1](#)

Xenograft Model Antitumor Assays[MeSH Terms] AND Pancreatic Neoplasms[MeSH Terms] AND "patient derived"



Step #4: Apply Filters If Appropriate

Xenograft Model Antitumor Assays[MeSH Terms] AND Pancreatic Neoplasms[MeSH Terms] AND "patient derived"

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PubMed Xenograft Model Antitumor Assays[MeSH Terms] AND Pancreatic Neoplasms[MeSH Terms] AND "patient derived" Search

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- [Sensitization of pancreatic cancer stem cells to gemcitabine by Chk1 inhibition.](#)
 1. Venkatesha VA, Parsels LA, Parsels JD, Zhao L, Zabludoff SD, Simeone DM, Maybaum J, Lawrence TS, Morgan MA. *Neoplasia*. 2012 Jun;14(6):519-25. PMID: 22787433 [PubMed - indexed for MEDLINE] **Free PMC Article** [Related citations](#)
 2. [The gamma secretase inhibitor MRK-003 attenuates pancreatic cancer growth in preclinical models.](#)
 2. Mizuma M, Rasheed ZA, Yabuuchi S, Omura N, Campbell NR, de Wilde RF, De Oliveira E, Zhang Q, Puig O, Matsui W, Hidalgo M, Maitra A, Rajeshkumar NV. *Mol Cancer Ther*. 2012 Sep;11(9):1999-2009. doi: 10.1158/1535-7163.MCT-12-0017. Epub 2012 Jul 2. PMID: 22752426 [PubMed - indexed for MEDLINE] [Related citations](#)
 3. [MK-1775, a potent Wee1 inhibitor, synergizes with gemcitabine to achieve tumor regressions, selectively in p53-deficient pancreatic cancer xenografts.](#)
 3. Rajeshkumar NV, De Oliveira E, Ottenhof N, Watters J, Brooks D, Demuth T, Shumway SD, Mizuarai S, Hirai H, Maitra A, Hidalgo M. *Clin Cancer Res*. 2011 May 1;17(9):2799-806. doi: 10.1158/1078-0432.CCR-10-2580. Epub 2011 Mar 9. PMID: 21389100 [PubMed - indexed for MEDLINE] **Free PMC Article** [Related citations](#)

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Sensitization of pancreatic cancer stem cells to gemcitabine by Chk1 inhibition. [*Neoplasia*. 2012]

MK-1775, a potent Wee1 inhibitor, synergizes with gemcitabine to achieve tumor regressions. [*Clin Cancer Res*. 2011]

Mechanism of radiosensitization by the Chk1/2 inhibitor AZD7762 involves abiraterone. [*Cancer Res*. 2010]

My Search Strategies Build on Each Other, So I Wade Through the Same References Over and Over.

Pitfall #7

Here's my previous search strategy:

Xenograft Model Antitumor Assays[MeSH Terms] AND
Pancreatic Neoplasms[MeSH Terms] AND "patient derived"

Now I want to conduct this search:

Pancreatic Neoplasms[MeSH Terms] AND "patient derived"

But I don't want to see the references I've already looked at. (The first set of references would be a subset of my new search.)

Use Advanced Search Builder to Combine Searches or Exclude Previous Searches

Tip #7

Click on “Advanced” to see your recent searches.

Repeat, modify, build on, or exclude previous search results.

PubMed

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PubMed Advanced Search Builder

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Builder

Recent Query

NOT

AND [Show index list](#)

or [Add to history](#)

History

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Search	Add to builder	Query	Items found	Time
#5	Add	Search Pancreatic Neoplasms[MeSH Terms] AND "patient derived"	22	20:45:37
#4	Add	Search Xenograft Model Antitumor Assays[MeSH Terms] AND Pancreatic Neoplasms[MeSH Terms] AND "patient derived"	8	20:45:19
#3	Add	Search "patient derived" cells tumor xenograft model	103	20:44:58
#2	Add	Search patient cells tumor xenograft model	3077	20:44:44

I Checked PubMed, and Nobody Has Ever Done What I'm Planning To Do

Pitfall #8

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
17 November 2011 (17.11.2011)

(10) International Publication Number
WO 2011/142858 A2

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A61K 38/17 (2006.01) G01N 33/574 (2006.01)
C07K 19/00 (2006.01)

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PCT/US2011023797

(22) International Filing Date:
4 February 2011 (04.02.2011)

(23) Filing Language:
English

(24) Publication Language:
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(30) Priority Data:
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(73) Inventor/Applicant (for US only): **OLSON, James M.** Published:
[US/US]: 4733 Lake Washington Blvd. South, Seattle, WA 98118 (US)

(74) Agent: **RENZONI, George, E.**, Christensen & Johnson Kindness PLLC, 1420 Fifth Avenue, Ste. Seattle, WA 98101 (US)

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Trial record **17 of 1193** for: **translational**

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Personalized Translational Platform for Biomarker Discovery in Brain Tumors

This study is currently recruiting participants.

Verified December 2012 by Brigham and Women's Hospital

Sponsor:
Brigham and Women's Hospital

Collaborators:
Society of Nuclear Medicine and Molecular Imaging
General Electric

Information provided by (Responsible Party):
Laura L. Horky, Brigham and Women's Hospital

ClinicalTrials.gov Identifier:
NCT01240161

First received: November 10, 2010
Last updated: December 20, 2012
Last verified: December 2012
[History of Changes](#)

U.S. Department of Health & Human Services

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Project Information
BR01GM009572/03

Project title: **Project title 1**

DESCRIPTION | DETAILS | RESULTS | HISTORY | SUBPROJECTS | SIMILAR PROJECTS | AWARD PROJECTS | LINKS | NEWS AND MORE

Project Number: **5R01GM009572-03** Contact PI / Project Leader: **WALKLEY, CAROLINA ENA, M.D.**

Title: **IMAGE ANALYSIS FOR HIGH-THROUGHPUT C. ELEGANS INFECTION AND METABOLISM ASSAYS** Awardee Organization: **BROAD INSTITUTE, INC.**

Abstract Text:

DESCRIPTION (provided by applicant): High-throughput screening (HTS) is a technique for searching large libraries of chemical or genetic perturbants, to find new treatments for a disease or to better understand disease pathways. As automated image analysis for cultured cells has improved, microscopy has emerged as one of the most powerful and informative ways to analyze screening samples. However, many diseases and biological pathways can be better studied in whole animals—particularly diseases that involve organ systems and multicellular interactions, such as metabolism and infection. The worm *Caenorhabditis elegans* is a well-established and effective model organism, used by thousands of researchers worldwide to study complex biological processes. Samples of *C. elegans* can be robotically prepared and imaged by high-throughput microscopy, but existing image-analysis methods are insufficient for most assays. In this project, image-analysis algorithms that are capable of scoring high throughput assays of *C. elegans* will be developed. The algorithms will be tested and refined in three high throughput screens, which will uncover chemical and genetic regulators of fat metabolism and infection. (1) A *C. elegans* viability assay to identify modulators of infection. The proposed algorithms use a probabilistic shape model of *C.*

Try Multiple Search Strategies Before Drawing Your Conclusion

Tip #8a

Try multiple search strategies before drawing your conclusion.

- We're looking for clinical trials studying inhibitors of the quorum sensing mechanism (bacterial cell-to-cell communication) in *Pseudomonas*. Limiting our search to clinical trial reports yielded zero references.

The screenshot shows the PubMed search interface. The search query is "Quorum Sensing [mesh] AND Pseudomonas [mesh] AND inhibitors". The search results show "No items found". A red arrow points to the "Clinical Trial" filter, which is currently selected. The search details box shows the query: "Quorum Sensing[mesh] AND Pseudomonas[mesh] AND inhibitors[All Fields] AND (Clinical Trial[ptyp])".

- Is it really true that nobody has undertaken a clinical trial to specifically study drugs interfering with “quorum sensing” in *Pseudomonas*?

Try Another Search Strategy Using MeSH Terms and Subheadings

Tip #8a,
continued:

Look up terms
in the MeSH
database.

Use
subheadings
to focus on a
particular
aspect of a
topic.

- By choosing the “Quorum Sensing” MeSH term and the “drug effects” subheading, we’ll limit our search to articles that discuss the effects of any drugs on quorum sensing.

The screenshot shows the MeSH database interface. At the top, there is a search bar with 'MeSH' selected in a dropdown menu. A green callout box points to this dropdown with the text: "Switch from the PubMed database to the MeSH database." Below the search bar, the 'Quorum Sensing' term is selected. The 'Subheadings' section is visible, with 'drug effects' checked and highlighted by a red arrow. Other subheadings like 'genetics', 'immunology', 'physiology', and 'radiation effects' are unchecked. A second red arrow points to the 'Add to search builder' button in the PubMed search builder on the right. The PubMed search builder contains the query: "Quorum Sensing/drug effects" [Mesh]. Below the search builder, there are buttons for 'Add to search builder', 'AND', and 'Search PubMed'. The 'Related information' section includes links for 'PubMed', 'PubMed - Major Topic', 'Clinical Queries', and 'NLM MeSH Browser'. The 'Recent activity' section shows a search for 'quorum sensing (7)' with a 'Turn Off' and 'Clear' option. The bottom right corner has a 'Bookshelf' icon.

Slightly modifying the search yielded three references we didn't find the first time.

Explanation:

We didn't require the specific word "inhibitors."

Instead, we used a subheading that encompassed the concept of inhibition, as well as other related topics.

NCBI Resources How To dkl My NCBI Sign Out

PubMed.gov US National Library of Medicine National Institutes of Health

PubMed ("Quorum Sensing/drug effects"[Mesh]) AND "Pseudomonas"[Mesh] Search

RSS Save search Advanced Help

Show additional filters Display Settings: Summary, Sorted by Recently Added Send to: Filter your results:

Clear all

Article types

Clinical Trial

More ...

Text availability

Abstract available

Free full text available

Full text available

Publication dates

5 years

10 years

Custom range...

Species

Humans

Clear all

Show additional filters

Results: 3

Filters activated: Clinical Trial Clear all

1. [Azithromycin to prevent Pseudomonas aeruginosa ventilator-associated pneumonia by inhibition of quorum sensing: a randomized controlled trial.](#)
van Delden C, Köhler T, Brunner-Ferber F, François B, Carlet J, Pechère JC.
Intensive Care Med. 2012 Jul;38(7):1118-25. doi: 10.1007/s00134-012-2559-3. Epub 2012 Apr 20.
PMID: 22527075 [PubMed - indexed for MEDLINE]
[Related citations](#)

2. [Quorum sensing inhibition selects for virulence and cooperation in Pseudomonas aeruginosa.](#)
Köhler T, Perron GG, Buckling A, van Delden C.
PLoS Pathog. 2010 May 6;6(5):e1000883. doi: 10.1371/journal.ppat.1000883.
PMID: 20463812 [PubMed - indexed for MEDLINE] [Free PMC Article](#)
[Related citations](#)

3. [Garlic as an inhibitor of Pseudomonas aeruginosa quorum sensing in cystic fibrosis--a pilot randomized controlled trial.](#)
Smyth AR, Cifelli PM, Ortori CA, Righetti K, Lewis S, Erskine P, Holland ED, Givskov M, Williams P, Cámara M, Barrett DA, Knox A.
Pediatr Pulmonol. 2010 Apr;45(4):356-62. doi: 10.1002/ppul.21193.
PMID: 20306535 [PubMed - indexed for MEDLINE]
[Related citations](#)

All (3)

[Clinical Trial \(3\)](#)

[English \(3\)](#)

[Humans \(3\)](#)

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[Published in the last 2 years \(1\)](#)

Review (0)

[University of Washington Online \(3\)](#)

UW author affiliation (0)

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Reverting antibiotic tolerance of Pseudomonas aeruginosa PAO1 persister cell [PLoS One. 2012]

Review Novel approaches to the treatment of Pseudomonas aeruginosa inf [Eur Respir J. 2012]

Inhibition of quorum sensing-controlled virulence factor production in Pseu [Sensors (Basel). 2012]

See all (36)...

You May Need to Search Multiple Databases

Tip #8b:

Try other reputable databases appropriate for your topic.

ClinicalTrials.gov

ClinicalTrials.gov
A service of the U.S. National Institutes of Health

Search for studies:
Example: "Heart attack" AND "Los Angeles"
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4 studies found for: "quorum sensing"
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Include only open studies Exclude studies with unknown status

Rank	Status	Study
1	Recruiting	Immune Function in Patients With Obstructive Jaundice Conditions: Obstructive Jaundice; Disease as Reason for ERCP; Immune Dysfunction; Immune Tolerance Intervention:
2	Terminated	Azithromycin as a Quorum-Sensing Inhibitor for the Prevention of Pseudomonas Aeruginosa Ventilator-Associated Pneumonia Conditions: Pneumonia, Ventilator-Associated; Pseudomonas Infections Interventions: Drug: azithromycin; Drug: placebo
3	Completed	Biological Modulation of Bacterial QSSMs, Innate and Adaptive Immunity by Antibiotics, Probiotics and Prebiotics in Healthy Individuals Conditions: Quorum Sensing; Prebiotics; Probiotics; Sepsis Interventions: Dietary Supplement: Bifidobacterium longum BB536; Dietary Supplement: Active hexose correlated compound (AHCC); Dietary Supplement: Bifidobacterium longum BB536 and Active hexose correlated compound (AHCC); Dietary Supplement: Corn starch placebo capsule; Drug: Azithromycin
4	Completed	The Infective Pulmonary Exacerbations in Cystic Fibrosis - an Ecological Perspective Condition: Cystic Fibrosis Intervention:

Try Multiple Searches and Multiple Databases. Contact a Librarian for Assistance

Remember:

PubMed does not contain ALL biomedical literature.

PubMed does not contain conference publications.

What you are looking for may not be in a journal article.



ClinicalTrials.gov



-  **Structure:** three-dimensional macromolecular structures
-  **Taxonomy:** organisms in GenBank
-  **SNP:** short genetic variations
-  **dbVar:** Genomic structural variation



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PATENT APPLICATION FULL TEXT AND IMAGE DATABASE

I Don't Have Time to Go Through All of These References Right Now

Pitfall #9

- Since you've done the work to build a good search strategy, you don't want to lose it.
- PubMed will save your work for 8 hours, but to be on the safe side, save your references in a "collection."
- If you're working with a group, consider sharing your search results with your colleagues using EndNote, Mendeley, or another citation manager.

Use to Track Your Searches and Save Your References in Collections

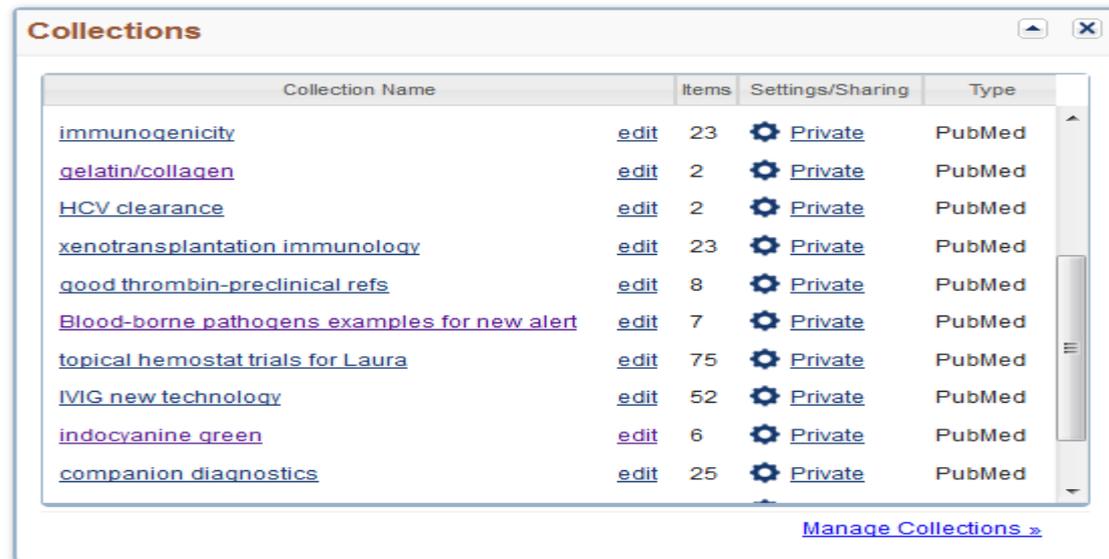
Tip #9a

Sign in to My NCBI when you search.

[Sign in to NCBI](#)

Save groups of references within a “collection” in My NCBI.

- Collections can be held indefinitely, modified, or discarded.
- Using collections lets you take advantage of links to full-text articles and to other NCBI databases.



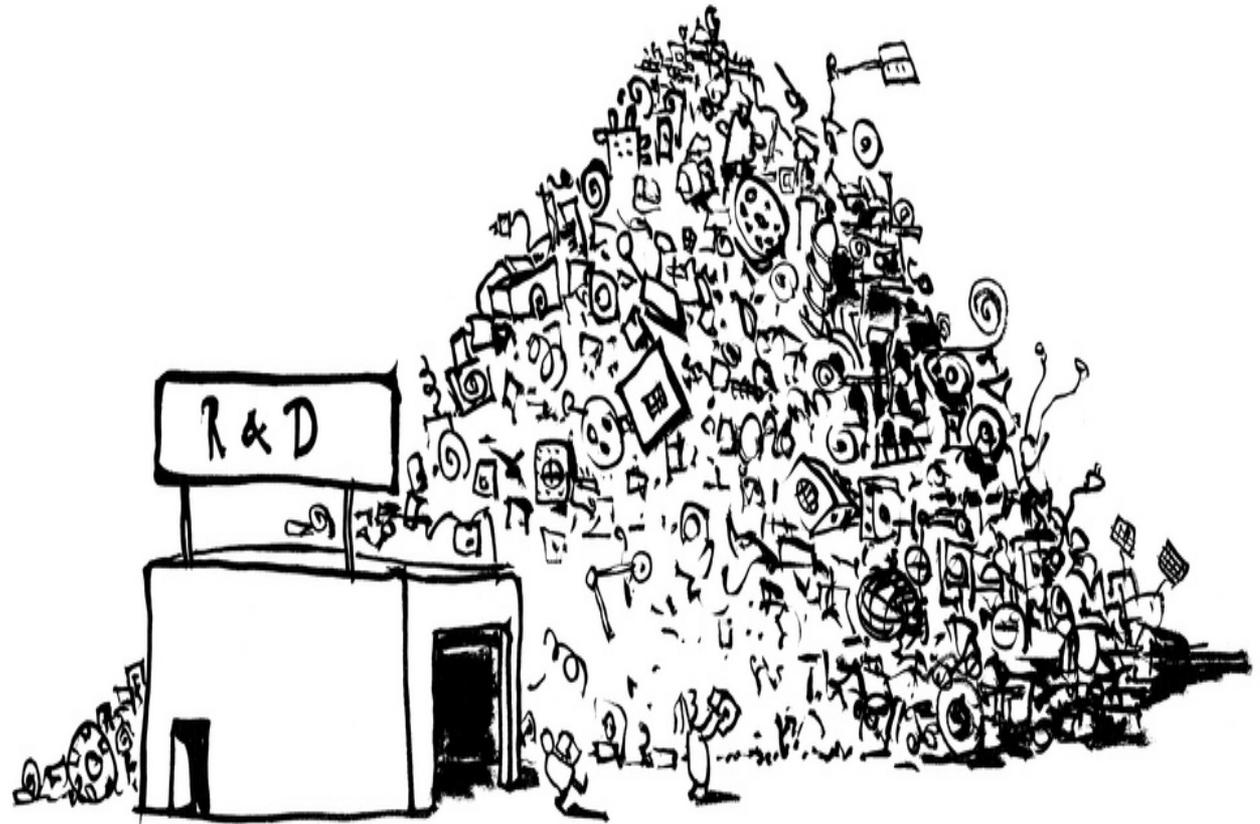
The screenshot shows the 'Collections' page in MyNCBI. It features a table with the following columns: Collection Name, Items, Settings/Sharing, and Type. The table lists ten collections, each with an 'edit' link, a count of items, a gear icon for settings, and a 'Private' status. The types are all 'PubMed'. A 'Manage Collections >' link is located at the bottom right of the table.

Collection Name	Items	Settings/Sharing	Type
immunogenicity	edit 23	Private	PubMed
gelatin/collagen	edit 2	Private	PubMed
HCV clearance	edit 2	Private	PubMed
xenotransplantation immunology	edit 23	Private	PubMed
good thrombin-preclinical refs	edit 8	Private	PubMed
Blood-borne pathogens examples for new alert	edit 7	Private	PubMed
topical hemostat trials for Laura	edit 75	Private	PubMed
IVIG new technology	edit 52	Private	PubMed
indocyanine green	edit 6	Private	PubMed
companion diagnostics	edit 25	Private	PubMed

[Manage Collections >](#)

I'd like to keep up with the literature in my field, but it's too overwhelming.

Pitfall #10



<http://www.flickr.com/photos/hikingartist/>

Determine a Reasonable Scope; Set up a Current Awareness Alert

Tip #10

Automated alerts are an essential tool for keeping up with the literature.

Consider multiple current awareness alerts – each one focused on a different topic.

PubMed "Community-Based Participatory Research"[MeSH] AND "Emigrants and Immigrants"[MeSH]
RSS Save search Advanced

Display Settings: Summary, 50 per page, Sorted by Recently Added Send to: Fil

Results: 1 to 50 of 53 << First < Prev Page 1 of 2 Next > Last >>

- [Research as curriculum: engaging undergraduates and community residents in immigrant health research partnerships.](#)
Martinez LS, Perea FC, Ursillo A, Pirie A, Ndulue UJ, Oliveira C, Gute DM.
Prog Community Health Partnersh. 2012 Winter;6(4):491-8. doi: 10.1353/cpr.2012.0059.
PMID: 23221295 [PubMed - indexed for MEDLINE]
[Related citations](#)
- [Female sex work within the rural immigrant Latino community in the southeast United States: an exploratory qualitative community-based participatory research study.](#)
Rhodes SD, Tanner A, Duck S, Aronson RE, Alonzo J, Garcia M, Wilkin AM, Cashman R, Vissman AT, Miller C, Kroeger K, Naughton MJ.
Prog Community Health Partnersh. 2012 Winter;6(4):417-27. doi: 10.1353/cpr.2012.0054.
PMID: 23221286 [PubMed - indexed for MEDLINE] **Free PMC Article**
[Related citations](#)
- [Using qualitative inquiry and participatory research approaches to develop prevention research: validating a life course perspective.](#)
Lesser J, Koniak-Griffin D.
Fam Community Health. 2013 Jan-Mar;36(1):34-41. doi: 10.1097/FCH.0b013e31826d75a7.
PMID: 23168344 [PubMed - indexed for MEDLINE]

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Automatically Receive New References Added to PubMed That Match Your Search Criteria

Receive updates by email or RSS Feeds.

Contact Diana Loudon (UW) or your local librarian for assistance.

- Contact your librarian for assistance with:
 - Choosing a database
 - Creating & refining the search strategy
 - Retrieving a manageable number of references each week



The screenshot shows the 'My NCBI — Saved Search Settings' page. At the top, there is a success message: 'Save Search successful.' Below this, the 'Your PubMed search' section is displayed. The 'Name of saved search' is 'engagement with immigrant communities'. The 'Search terms' are '"Community-Based Participatory Research" [MeSH] AND "Emigrants and Immigrants" [MeSH]'. There is a 'Test search terms' link. The 'E-mail' field is 'dkn1@uw.edu' with a 'change' link. The 'Would you like e-mail updates of new search results?' section has two radio buttons: 'No, thanks.' (unselected) and 'Yes, please.' (selected). Below this, the 'Frequency' is set to 'Weekly' and the 'Which day?' is set to 'Friday'.



Thank you for your interest.

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