

Saturday, October 13, 2018

EFFECTIVE AND EFFICIENT USE OF NCBI/PUBMED

- TOOLS TO HELP YOU DO WHAT YOU NEED TO DO -



With over 176,000 published peer-reviewed articles related to anesthesia of the 27 million in total, the U.S. National Library of Medicine's PubMed Database is one of the most heavily used resources in clinical settings. The NCBI Account system was designed with various tools to work with PubMed and other NCBI Databases to support each user's specific needs. This presentation will provide specific tips and tricks for use of tools designed to help you use this resource at the point-of-care to enhance your clinical practice and in education/training of future healthcare practitioners.

At the completion of this activity, you should be able to:

- Quickly and efficiently access relevant published information to support optimal anesthesia care and aid in education/training of future healthcare practitioners.
- Create search strategies and set up automated Emails to learn of the availability of new PubMed records, set custom filter and display settings, and create folders for quick and easy access to collected information.

Sunday, October 14, 2018

WHAT DOES GENETICS/GENOMICS HAVE TO DO WITH THE PRACTICE OF ANESTHESIA?

Using information gleaned from a person's genome can assist clinicians in customizing their patient's case management which may increase the likelihood of a positive outcome. This talk will provide background and examples of how genomic medicine is being implemented in the clinic and will demonstrate how you can use free, online resources to assist your own clinical practice.

At the completion of this activity, you should be able to:

- Discuss the utilization of genomic medicine in clinical practice;
- Utilize genomic information in anesthetic management with the goal of improved patient outcome.

MATERIALS FOR YOU!

http://bit.ly/NCBI_VANA2018

<https://ftp.ncbi.nlm.nih.gov/pub/morris/VANA2018/>

PubMed Tools presentation (.pdf) | NCBI Account Guidebook (.pdf)

Genetics & Anesthesia Practice presentation (.pdf)

Presenter: **Rana Morris, PhD** - an NCBI Customer Experience team member and Team Lead for Educational Programs (Courses/Workshops, Webinars, Educational Materials). Since 2002, she has provided user support and training, as well as working with supervisors and development teams to improve NCBI resources based on user-centered design principles. Her doctoral, post-doctoral and research fellowship work integrated disciplines of computational and experimental biochemistry, molecular and cellular biology and genetics, and has included diagnostic development, drug design and coordination of genetics/genomics components of clinical trials.



Effective and efficient use of NCBI/PubMed - *tools to help you do what you need to do* -

Rana C. Morris, Ph.D.

http://bit.ly/NCBI_VANA2018



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ABSTRACT AND GOALS

With over 180,000 published peer-reviewed articles related to anesthesia of the 27 million in total, the U.S. National Library of Medicine's PubMed Database is one of the most heavily used resources in clinical settings. The NCBI Account system was designed with various tools to work with PubMed and other NCBI Databases to support each user's specific needs. This presentation will provide specific tips and tricks for use of tools designed to help you use this resource at the point-of-care to enhance your clinical practice.

At the completion of this activity, you should be able to:

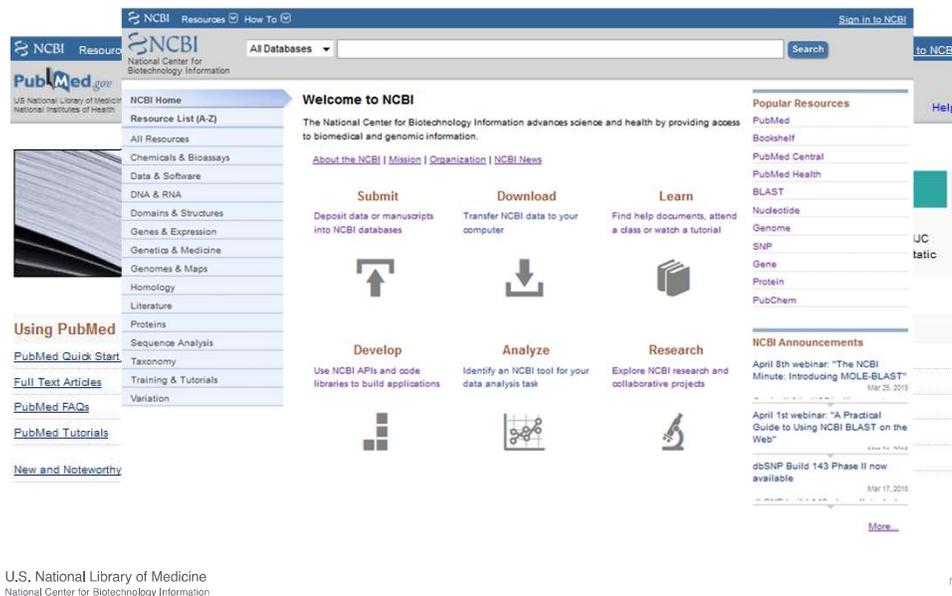
- Quickly and efficiently access relevant published information to support optimal anesthesia care.
- Create search strategies and set up automated Emails to learn of the availability of new PubMed records, set custom filter and display settings, and create folders for quick and easy access to collected information.



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“WHAT” IS NCBI?



The screenshot shows the NCBI homepage with a navigation menu on the left, a central 'Welcome to NCBI' section with 'Submit', 'Download', and 'Learn' buttons, and a 'Popular Resources' list on the right. The NIH logo and 'U.S. National Library of Medicine' text are at the bottom left, and the 'NCBI WORKSHOP' logo is at the bottom right.

WHAT IS “NCBI”?

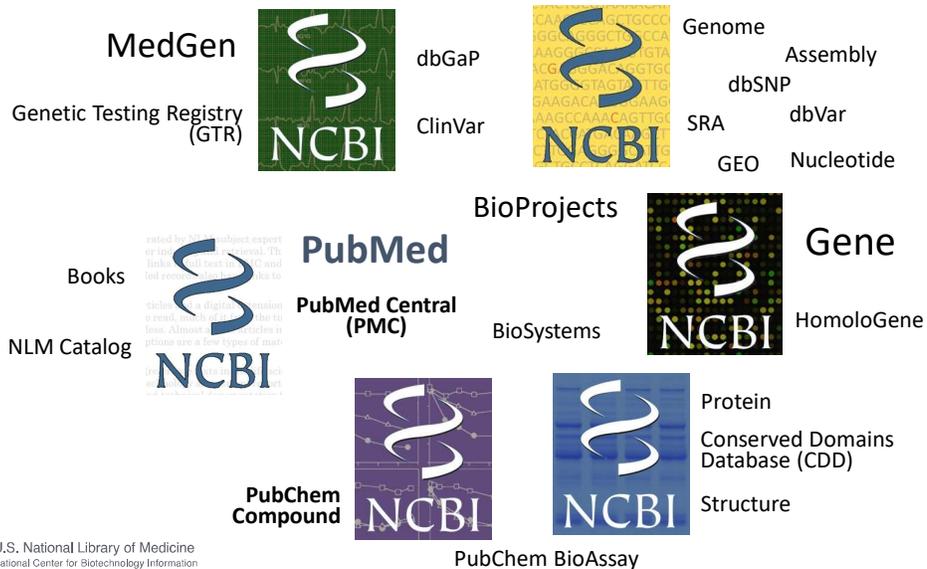
We are a “center” within the NLM responsible for creation, curation and maintenance of medical and scientific databases *and other things...*



We receive, create, archive & make available biomedical information, as well as perform computational biology & IT systems research.....

but we really aspire to help make sense of the information!

NCBI'S INFORMATION HUBS & SOME DATABASES



CLINICALLY-RELATED BIOINFORMATICS PROJECTS @NCBI - MORE AND MORE DATA -

- **Clinical Literature Resources** ([PubMed/PMC](#), [MedGen](#), [Books](#) – including [GeneReviews](#), [Medical Genetics Summaries](#), [AHRQ reports](#), etc.)
- **ClinicalTrials.gov**
- **Clinical Genomics/Genetics Resources**
 - [MedGen](#), [ClinVar](#), [Genetic Testing Registry \(GTR\)](#)
- **Clinical Studies** ([dbGaP](#))
 - Framingham, AREDS, Addiction treatment, etc.
- **Experimental Studies with Data**
 - Genomic, Pathogen, & Microbiome sequences in [Assembly](#), [SRA](#), [Pathogen Detection Project](#), etc.
 - Gene Expression & Genotype Studies in [GEO](#)
 - Human Genetic Variation Population data in [dbSNP](#)
 - Drug Design/Discovery Assays in [PubChem BioAssay](#)

The image shows the PubMed website interface. At the top, there are navigation links for 'NCBI Resources' and 'How To'. The main header includes the PubMed logo, a search bar with 'PubMed' entered, and a 'Search' button. Below the header, there's a banner with the text: 'PubMed comprises more than 27 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.'

The page is divided into several sections:

- Using PubMed:** Links to 'PubMed Quick Start Guide', 'Full Text Articles', 'PubMed FAQs', 'PubMed Tutorials', and 'New and Noteworthy'.
- PubMed Tools:** Links to 'PubMed Mobile', 'Single Citation Matcher', 'Batch Citation Matcher', 'Clinical Queries', and 'Topic-Specific Queries'.
- Latest Literature:** A list of new articles from highly accessed journals, including 'Blood (8)', 'Cancer Res (1)', 'Cell (11)', 'Circulation (2)', 'Cochrane Database Syst Rev (2)', and 'Drugs (1)'.
- Trending Articles:** A list of recent articles, such as 'Strength and hypertrophy adaptation between low- versus high-load resistance training: A systematic review and meta-analysis' and 'Car Windshield Wiper in the Brain Report'.

An overlay of a tablet and smartphone shows the mobile version of the site, which is more compact and features a search bar at the top and a list of trending articles below.

At the bottom left is the NIH logo and text: 'U.S. National Library of Medicine National Center for Biotechnology Information'. At the bottom right is the 'NCBI WORKSHOP' logo.

Wouldn't you like your PubMed screen to look like this?

Set sort criteria,
results shown,
highlight color...

Set custom filters
for quick focusing.

The screenshot shows a search for 'pharmacogenomics AND propofol'. The search results are sorted by 'Most recent' and show 9 items. Red boxes highlight several key features:

- Sort criteria:** 'Format Summary - Sort by: Most Recent - Per page: 20 -'
- Filter your results:** A sidebar on the right showing filters for 'All (9)', 'Female (3)', 'Male (3)', 'Patient Education Handout (0)', and 'Practice Guideline (0)'.
- Search results:** The first result is highlighted in yellow: 'Clinical pharmacology of analgesic sedatives in neonates: ways to improve their safe and effective use'.
- Custom filters:** A sidebar on the left shows various filters like 'Article types', 'Text availability', 'Publication dates', 'Species', and 'Ages', with 'Child: birth-18 years' selected.

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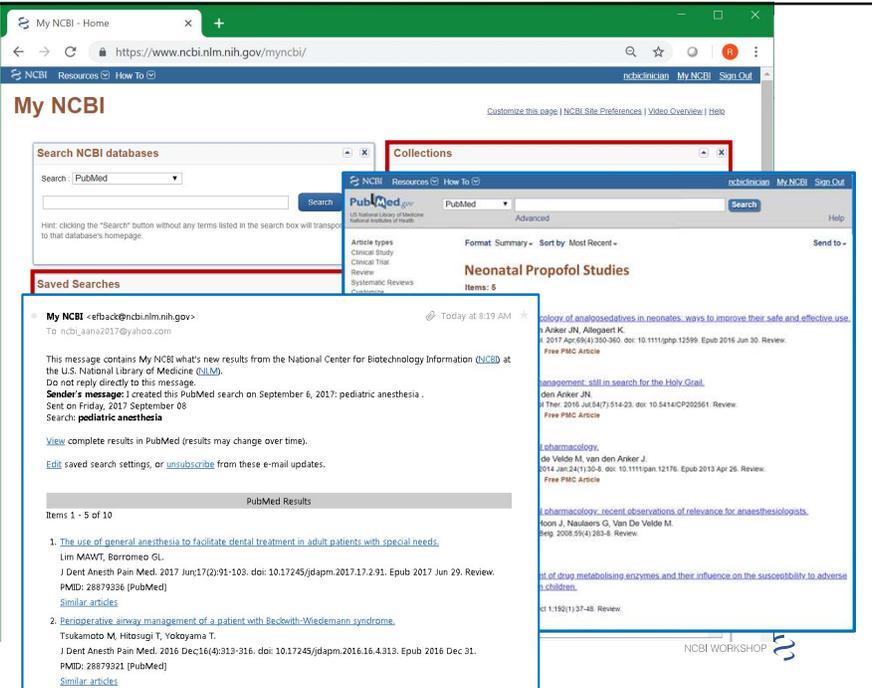
NCBI WORKSHOP

Wouldn't you like to have a personal dashboard?

And be able to create and share collections of articles?

And get Email alerts for new articles?

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The screenshot displays the My NCBI interface. At the top, there's a navigation bar with 'My NCBI' and 'Sign Out' options. Below this, a search bar is visible with 'PubMed' selected. A 'Collections' tab is highlighted. The main content area shows search results for 'Neonatal Propofol Studies' with 6 items. A 'Saved Searches' section is also visible, showing a search for 'pediatric anesthesia' created on September 6, 2017. An email alert is shown, containing the text: 'This message contains My NCBI what's new results from the National Center for Biotechnology Information (NCBI) at the U.S. National Library of Medicine (NIH). Do not reply directly to this message. Sender's message: I created this PubMed search on September 6, 2017: pediatric anesthesia. Sent on Friday, 2017 September 08. Search: pediatric anesthesia. View complete results in PubMed (results may change over time). Edit saved search settings, or unsubscribe from these e-mail updates.' The email also lists two PubMed results: 1. 'The use of general anesthesia to facilitate dental treatment in adult patients with special needs' by Lim MAWT, Borromeo GL, and 2. 'Perioperative airway management of a patient with Beckwith-Wiedemann syndrome' by Tsukamoto M, Hitosugi T, Yokoyama T.

The NCBI Account system was designed with customizable tools to support each user's specific needs.

Both Clinical Practice and Education/Training have specific requirements & significant time constraints.

You need to be effective & efficient!

You need to be able to ***find relevant information quickly*** and do something with it – ***read it, store it, share it.***

I will demonstrate how to set up and use the NCBI Account System to improve your NCBI/PubMed use to assist in your role as a clinician and/or as an educator of future healthcare practitioners.

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NCBI WORKSHOP 

Introduction

Creating Effective Searches

Using Filters & Creating Custom Filters

Setting Display Preferences:
Suggesting queries
Highlighting search terms
Setting default sort criteria
Setting # records displayed

Saving Search Strategies & Automating Searches

Saving & Sharing Collections including My Bibliography

NCBI Accounts & NIH Grants

Upcoming Developments

Recap & Where to find help!

TODAY'S AGENDA



Whether you are serving in your capacity as
a Clinician or
as an Educator training future Healthcare practitioners...
you need to be effective & efficient!

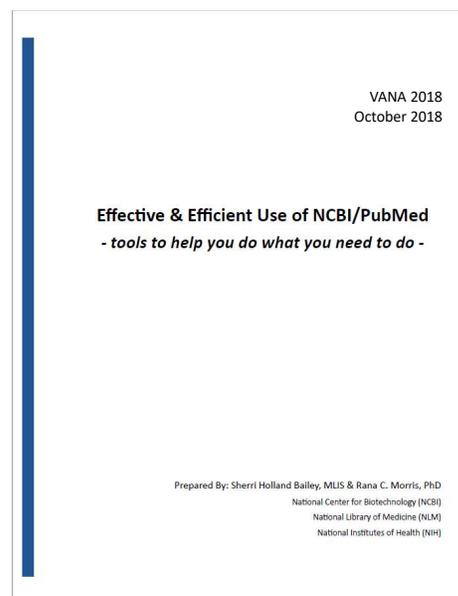
Today's presentation is designed to show you
ways to help you do what you need to do.



DON'T WORRY!

**You can get the NCBI Account Guidebook
with tips & tricks
step-by-step instructions
links to Help Documentation
& and links to YouTube videos!**

[https://ftp.ncbi.nlm.nih.gov/pub/morris/
VANA2018/NCBIAccount_Guidebook.pdf](https://ftp.ncbi.nlm.nih.gov/pub/morris/VANA2018/NCBIAccount_Guidebook.pdf)



Getting a free NCBI Account

1 Sign in to NCBI

2 Register for an NCBI account

3 Register for an NCBI Account

4 My NCBI + Registration Confirmation

5 Activate your new NCBI account

6 Confirm email address for an NCBI account

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Sign in to your NCBI Account

Sign in to NCBI

Sign in with Google, NIH Login, Commons

OR

Sign in directly to NCBI

NCBI Username
Password
 Keep me signed in
Sign In

Forgot NCBI username or password?
Register for an NCBI account

My NCBI retains user information and database preferences to provide customized services for many NCBI databases.

My NCBI features include:

- Save searches & automatic e-mail alerts
- Display format preferences
- Filter options
- My Bibliography & NIH public access policy compliance
- PubMed, a researcher bioscience profile service
- Highlighting search terms
- Recent activity searches & records for 6 months
- LinkOut, document delivery service & outside tool selections

NIH funded investigator?

Extramural NIH-funded investigators looking for NIH Public Access Compliance tools can sign in with either "NIH Commons" or "NIH Login". Use your eRA Commons credentials on the subsequent sign in page. Once signed in, navigate to the My Bibliography section.

Documentation for using these features is located in the [Managing Compliance to the NIH Public Access Policy](#) section of the NCBI Help Manual.

Information about the NIH Public Access Policy is located at <https://publaccess.nih.gov>

Account Troubleshooting FAQ

Required email confirmation link message
Multiple My NCBI accounts
Link eRA Commons, University, or other account to your NCBI account

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NCBI Account Settings & MyNCBI Dashboard

The image displays two overlapping screenshots of the NCBI website. The top screenshot shows the browser address bar at <https://www.ncbi.nlm.nih.gov> with navigation links for 'MyNCBI' and 'Sign Out'. The bottom-left screenshot shows the 'My NCBI Account Settings' page, including sections for Email, Native NCBI Account (username: ncbiprofessor), Linked accounts, Delegates, and API Key Management. The bottom-right screenshot shows the 'My NCBI' dashboard with search filters, saved searches, and a 'Recent Activity' table. A video player in the foreground shows a YouTube video titled 'My NCBI Home Page' with the URL <http://www.youtube.com/watch?v=ks46w3mNAQE>. Red arrows indicate the flow from the browser tabs to the account settings and dashboard pages.

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Introduction

Creating Effective Searches

Using Filters
& Creating Custom Filters

Setting Display Preferences:
Suggesting queries
Highlighting search terms
Setting default sort criteria
Setting # records displayed

Saving Search Strategies
& Automating Searches

Saving & Sharing Collections
including My Bibliography

NCBI Accounts & NIH Grants

Upcoming Developments

Recap &
Where to find help!

Creating Effective Searches Use Phrases, Booleans, Ranges & specify Indexed Fields

Have you ever typed in a term like:

Alzheimer's Disease (139,852)

or

Malignant Hyperthermia (5,965)

or

Pediatric Anesthesia (15,438)

and were totally overwhelmed
with the number of records you found?

Search Query Syntax Example

<code>wistar rat</code>	(267,550)	anything with wistar or rat anywhere in the record
<code>"wistar rat"</code>	(4,092)	articles that include the wistar rat model organism
<code>wistar[au] AND rat</code>	(5)	articles written by an author with the name Wistar and include a rat/rats in the study
<code>wistar[au] AND rat AND 1968:1969[pdat]</code>	(3)	articles written by an author with the name Wistar include a rat/rats in the study and having a publication date between 1968 & 1969
<code>wistar[au] AND "wistar rat"</code>	(0)	articles written by an author with the name Wistar and include the wistar rat model organism

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Creating Better/More Effective Searches!

Search with Phrases!

Use " " around or _ between words
(Caveat: Entrez will break them up if they aren't found via *ATM.)

Search with Booleans!

AND NOT OR

Search with Ranges!

1968:1969[Publication Date]

1968:1969[PDAT]

**TO SEE WHAT YOU
ARE ACTUALLY SEARCHING
CHECK THE SEARCH DETAILS!**

Use your Search History!

The screenshot shows the PubMed search interface. At the top, there is a search bar with the text "Advanced" and a red arrow pointing to it. Below the search bar is the "PubMed Advanced Search Builder" section, which includes a text input field and a "Search" button. Below that is the "Builder" section, which includes a dropdown menu for "All Fields" and a "Search" button. At the bottom is the "History" section, which contains a table of search history.

Search	Add to builder	Query	Items found	Time
#27	Add	Search wistar[au] AND "wistar rat" Schema: all Sort by: PublicationDate	0	00:57:50
#25	Add	Search wistar[au] AND "wistar rat" Sort by: PublicationDate	0	00:57:50
#25	Add	Search wistar[au] AND rat AND 1968:1969[pdat] Sort by: PublicationDate	2	00:57:40
#24	Add	Search wistar[au] AND rat Sort by: PublicationDate	5	00:57:18
#23	Add	Search "wistar rat" Sort by: PublicationDate	3907	00:56:53
#22	Add	Search wistar rat Sort by: PublicationDate	257403	00:56:37

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Searching PubMed Using Specific Fields

1. Click this to see what is indexed in this field.

2. Select a field

3. Show index list

4. Date - Publication

Type some letters in the textbox and hit "enter" or click "refresh" to zoom alphabetically in the list.

Let Medical Subject Headers (MeSH) help you!

Since 1960, an NLM-created controlled vocabulary to tag Medical/Scientific (PubMed) records.

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Use the MeSH Search Builder to help you create specific queries.

The screenshot shows the MeSH Search Builder interface. On the left, there is a tree view of MeSH terms under the heading 'Anesthesia'. A red circle with the number 1 is around the 'Anesthesia' term, with an arrow pointing to it and the text '1 Select your term(s)'. In the center, a red arrow with the number 2 points to the 'Add' button, with the text '2 Add terms (optional)'. On the right, a red circle with the number 3 is around the 'Search' button, with an arrow pointing to it and the text '3 Search with your terms'. The search results on the right show a list of PubMed articles related to anesthesia, with the first article highlighted.

Caveat: Human processing of MeSH terms is good, but a bit slow!

Using the Filter Sidebar & Creating Custom Filters *Tips to quickly focus your search results!*

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- Saving & Sharing Collections including My Bibliography
- NCBI Accounts & NIH Grants
- Upcoming Developments
- Recap & Where to find help!

Speeding up the process....
Browsing PubMed to find what you want
(what you really, really want)

Finding "systematic reviews"
or articles with available "free, full text"
is just a click-a-way.

And you can create your own customized clicks, too!

Using the Filter Sidebar

Tips to quickly focus your search results!

The screenshot shows a PubMed search results page for the query "Anesthesia/complications". The filter sidebar on the left is expanded to show "Article types" and "Additional filters". The "Additional filters" dialog box is open, showing a list of filters with checkboxes. The "Article types" filter is checked. The "Additional filters" dialog box also shows "Text availability", "Publication dates", "Species", "Languages", "Sex", "Subjects", "Journal categories", "Ages", and "Search fields". A red arrow points to the "Article types" section in the sidebar, and another red arrow points to the "Additional filters" dialog box.

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Adding Pre-set Filters

Tips to quickly focus your search results!

The screenshot shows a PubMed search results page for the query "Anesthesia/complications". The "Filters: Manage Filters" dialog box is open, showing a list of filters with checkboxes. The "Article types" filter is checked. The "Additional filters" dialog box also shows "Text availability", "Publication dates", "Species", "Languages", "Sex", "Subjects", "Journal categories", "Ages", and "Search fields". A red arrow points to the "Filters: Manage Filters" button, another red arrow points to the "Properties" button in the "Select category" section, and a third red arrow points to the "Age Groups" filter in the "Browse/Search for PubMed Filters" section.

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Creating Custom Filters

Tips to quickly focus your search results!

You are managing filters:

Your PubMed filter list:

Active	Name	Type
<input checked="" type="checkbox"/>	Jerry Kim's Publications	Custom
<input checked="" type="checkbox"/>	English & Humans	Standard filter

Add Custom Filter in PubMed

Supply query terms to be used as a filter in PubMed:

Query terms:

Test This Query

162 results found.

Save filter as:

Cancel Save Filter

Your PubMed filter list:

My Publications! custom filter activated.

Active	Name	Type
<input checked="" type="checkbox"/>	Jerry Kim's Publications	Custom
<input checked="" type="checkbox"/>	My Publications!	Custom
<input checked="" type="checkbox"/>	English & Humans	Standard filter

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Using Pre-set & Custom Filters

Tips to quickly focus your search results!

Search results for: "Anesthesia/complications"[...]

Pubmed

Search: ("Anesthesia/complications"[Mesh]) AND "english and humans"[Filter]

Format: Summary - Sort by: Publication Date - Per page: 20 -

Search results

Items: 1 to 20 of 451

1. [Overdose with Ohio halothane vaporizer](#)
SAFAR P, GALLA SJ. Anesthesiology. 1962 Sep-Oct;23:715-6. No abstract available. PMID: 14489919

2. [The injection of epinephrine during general anesthesia with halogenated hydrocarbons and cyclopropane in man. 2. Halothane.](#)
KATZ RL, MATTEO RS, PAPPER EM. Anesthesiology. 1962 Sep-Oct;23:597-600. No abstract available. PMID: 14454401

3. [Bacteriological culture of indwelling epidural catheters.](#)
BARRETO RS. Anesthesiology. 1962 Sep-Oct;23:643-6. No abstract available. PMID: 13865237

4. [A hazard of epidural anaesthesia in obstetrics.](#)
WEBSTER AC. Can Anaesth Soc J. 1962 Sep;9:433-6. No abstract available. PMID: 14506177

Filter your results:

- All (1340)
- English & Humans (451)
- Jerry Kim's Publications (0)
- My Publications! (0)

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Customizing your PubMed Displays

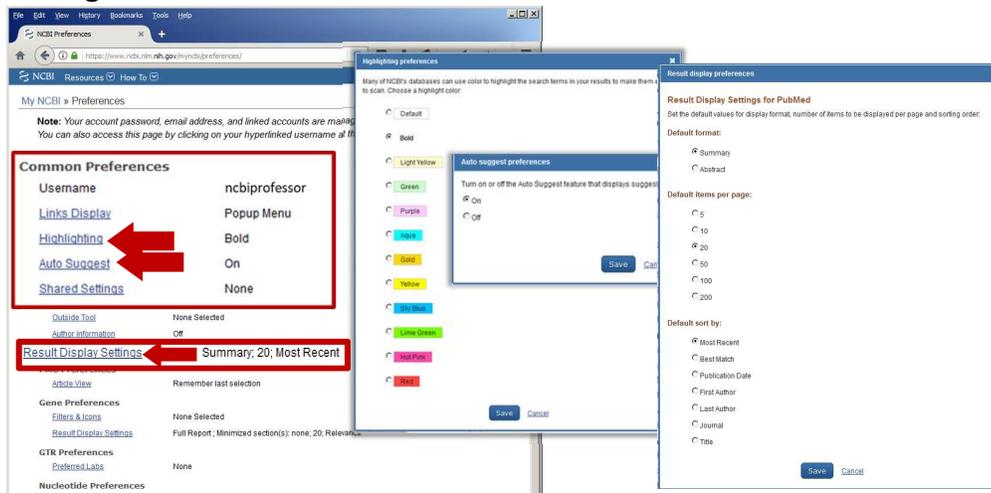
Suggesting, Highlighting, Displaying & Sorting Record Lists

Quickly setting preferences
for how PubMed works
...and looks.

Setting your “Site Preferences”

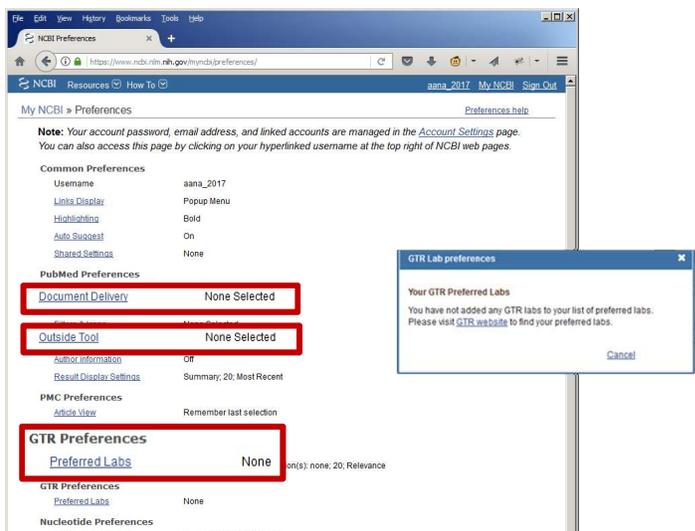
Highlighting your Search Terms & Auto-Suggest Queries

Setting the Number of Records Shown in the List & Sort Criteria



Customizing Preferred Vendors

Setting Document Delivery, Outside Tool & Clinical Genetic Testing Vendors



BONUS: You can pre-set preferred laboratories for the NIH Genetic Testing Registry!

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Saving Search Strategies & Automating Searches

With Emailed Notifications of New Records

Keeping up-to-date with new stuff!

You've spent all that time creating your perfect search.
Can't you just save it and reuse it?
(hint, hint.....YES!)

Wouldn't it be nice to have *someone else* do your search for you and let you know if anything new has come out?

Saving Search Strategies & Automating Searches with Emailed Notifications of New Records

The collage illustrates the process of saving and automating searches. It shows search results for 'pediatric anesthesia', the configuration of a saved search with the same terms, the scheduling and notification settings for that search, and an example of the email notification received when new records are found.

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Saving & Sharing Search Results Collecting Groups of Records & Sharing the List!

Making & filling folders with collections of articles for access later...

Keeping them "Private" for you or making them "Public" to share!

Saving & Sharing Search Results

Create online collections which you can access anywhere!

The screenshot shows a PubMed article titled "Neonatal clinical pharmacology." A "Send to" menu is open, with options: File, Collections, Clipboard, E-mail, Order, and My Bibliography. The "Add to Collections" option is highlighted with a red circle 3. A "My NCBI" sidebar is open, showing "What would you like to do?" with options: "Create new collection" (circled 4) and "Append to an existing collection" (circled 5). A dropdown menu for "Choose a collection:" is visible, listing "Favorites", "Malignant Hyperthermia & DNA Sequencing", "Neonatal Propofol Studies", "Pediatric Anesthesia Articles", and "Sept 2018 Journal Club" (circled 4).

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Produce and share online lists for colleagues, or students in your courses or journal clubs

The screenshot shows the "My NCBI" interface. On the left, there are sections for "Search NCBI databases", "Saved Searches", "Filters for PubMed (4 active)", and "Recent Activity". In the center, a "Collections" table lists several collections, with "Sept 2018 Journal Club" highlighted and circled 1. Below this, a "My NCBI" sidebar shows "My Bibliography" and "My NCBI Collections". A "Send to" menu is open, with the "Share" option circled 2. A red arrow points from the "Share" option to a "Sept 2018 Journal Club" sidebar on the right. Below the sidebar, a "Share" dialog box is open, showing a "Collection Name" and a "Share URL" circled 4. The URL is: https://www.ncbi.nlm.nih.gov/blast/123g0016_tg9k/collections/5694554/public/. A red box highlights the URL with the text "Here's the URL to share!". Below the dialog box, a "Save" button is circled 3.

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Maintain your publication list for an online resume/CV

The screenshot displays the NCBI My Bibliography interface. On the left, the 'Search NCBI databases' section includes a search box and filters. Below it are 'Saved Searches' and 'BLAST History'. The 'My Bibliography' section shows a list of collections, with 'My Bibliography' selected and containing 110 items. A red box highlights the 'My Bibliography' collection name, with a red arrow pointing to the 'My Bibliography' link in the 'My Bibliography' section. A red arrow labeled '1' points to the search box. A red arrow labeled '2' points to the 'My Bibliography' link. A red arrow labeled '3' points to the 'My Bibliography' link in the 'My Bibliography' section. A red arrow labeled '4' points to the 'My Bibliography' link in the 'My Bibliography' section. The 'My Bibliography' section also shows a list of publications with columns for Title, Database, Program, and Created. The 'My Bibliography' section also shows a list of publications with columns for Title, Database, Program, and Created.

Interactive Demo

- Sign in to an NCBI Account
- Set some display settings
- Set some filters
- Do a search
- Save the search & create an alert
- Create a new collection
- Save a record to the collection
- Make collection public & share the URL

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NIH Granting

We can help pre- & post-awarding!

SciENcv will produce your biosketch!

Congratulations on your NIH grant!

Now you've got to comply
The NIH Public Access Policy
&
declare all funded publications
in your Annual & Final (RPPR) Reports

Repurpose your online bibliography to help create your federal grant proposals' biosketches.

NIH BIOSKETCH

OMB No. 0225-0001 and 0225-0002 (Rev. 08/17 Approved Through 03/31/2020)

BIOGRAPHICAL SKETCH

Provide the following information for the Secretary, NIH, and other appropriate contributors. Follow the format for each person. DO NOT include the PAAFE.

NAME: Doe, Jane
 eRA COMMONS USER NAME (credential, e.g., agency login): JDCE
 POSITION/TITLE: Adjunct Faculty

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add dates when appropriate.)
 INSTITUTION AND LOCATION DEGREE END DATE (if applicable) FIELD OF STUDY
 The Ohio State University, Columbus, OH MS 5/2005 Physiological Sciences
 Eastern Michigan University, Ypsilanti, MI BA 6/2003 Physics
 Bowling Green State University, Bowling Green, OH PhD 12/2010 Oral & Craniofacial Sciences
 Self-taught Other training present Pulmon Programming

A. Personal Statement

My role in this project is that of PDP. My overall interest is to use physics to describe physiological phenomena and contribute to basic research that will lead to prevention and/or cure of disease states. More specifically, I want to learn more about bone remodeling and osteoporosis, which causes more than 3.9 million fractures annually throughout the world.

With this grant, I will be able to focus on my studies and research, and finally advance past formal education into a career as a research scientist. I intend to continue cutting-edge research in the musculoskeletal system. Experience creating 3D models from imaging and running finite element analyses will open doors to industry, government, and academic careers.

Diao Q, Turo D, Stanley CJ, Sharma A, Chambless A, Laughrey L, Aralar A, Damiano DL. Quantification of Muscle Tissue Properties by Modeling the Statistics of Ultrasound Image Intensities Using a Mixture of Gamma Distributions in Children With and Without Cerebral Palsy. *J Ultrasound Med.* 2018 Feb 20; PubMed PMID: 29550771.

B. Positions and Honors

Positions and Employment

1995 - 1997 Undergraduate Research Assistant, Eastern Michigan University, Ypsilanti, MI
 2015 - 2015 Graduate Research Assistant, The Ohio State University, Columbus, OH
 2017 - 2017 Adjunct Faculty, Northern Virginia Community College, Fairfax, VA

Other Experience and Professional Memberships

2010 - Member, American Institute of Physics Society's Society of Physics Students
 2011 - Student Member, Biomedical Engineering Society
 2012 - Student Member, IEEE Women in Engineering
 2013 - Student Member, IEEE Engineering in Medicine and Biology Society

Honors

2012 Inducted into Sigma Pi-Sigma Physics Honors Society

C. Contribution to Science

1. Strain determination in the anterolateral ligament (all) of the knee using digital image correlation.

Now that you've got your NIH Grant!



1 Preparing a manuscript

When you select a journal to submit your manuscript to and before you sign a publication agreement or copyright transfer agreement, make sure that your paper can be submitted to PMC in accordance with the NIH Public Access Policy. Make sure you know who will submit it to the NIHMS (Method A, B, C or D).

2 Accepted for publication

Make sure your accepted manuscript is submitted to the NIHMS right away - DON'T WAIT! Track submission and processing in My Bibliography and make sure it is finally released in PMC.

3 Reporting to NIH

Use My Bibliography to produce the C.1 Publications table to include in your Annual/Final Report (RPPR).

Introduction

Creating Effective Searches

Using Filters
& Creating Custom Filters

Setting Display Preferences:
Suggesting queries
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& Automating Searches

Saving & Sharing Collections
including My Bibliography

NCBI Accounts & NIH Grants

Upcoming Developments

Recap &
Where to find help!

You are one of the first to know...

What we're doing at NCBI
(user-centered design & testing with real people!)
and
Upcoming developments that
you might want to be aware of....

COMING IN JANUARY 2019, A NEW LOOK FOR MY BIBLIOGRAPHY!

<https://ncbi.nlm.nih.gov/labs/bibliography>

- A new look created with user-centered design & testing
 - to solve users concerns
 - other issues that we thought were important

• Everything you do now *will* be fully available in the new system!

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National Center for Biotechnology Information

The screenshot shows the 'My Bibliography' page for a user named 'ncbiprofessor'. It features a search bar, filters for citations, and a list of 110 citations. Each citation includes the title, authors, journal name, and a 'Public Access Compliance' status. The interface is clean and modern, with clear navigation options.

COMING IN LATE SPRING 2019, A NEW LOOK FOR PUBMED!

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<https://www.ncbi.nlm.nih.gov/labs/pubmed/>

A glimpse into the future of PubMed!

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- Cleaner, easier to read and use and with new functionality people have been asking for.
- Pretty nice for Desktops & great for Mobile devices

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

The screenshot shows the 'PubMed Labs' interface. It features a search bar with the query 'Cushing syndrome AND systematic[is] AND english and humans[filter] NC'. Below the search bar, there are filters for 'Test match' and 'Most recent'. A list of results is shown, with the top result being a review article titled 'PET imaging in ectopic Cushing syndrome: a systematic review'. The article preview includes the title, authors, journal, and a summary of the findings. The interface is designed to be user-friendly and easy to navigate.

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

RECAP & HELP!

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Upcoming Developments

**Recap &
Where to find help!**



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AND/OR THE NCBI ACCOUNT GUIDEBOOK**

http://bit.ly/NCBI_VANA2018

<https://ftp.ncbi.nlm.nih.gov/pub/morris/VANA2018/>

**In a nutshell, you can find and use
everything shown at:**

<https://www.ncbi.nlm.nih.gov>

NCBI Presentation References & Resources

THE NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION, a.k.a. THE “NCBI”

<https://www.ncbi.nlm.nih.gov>

ABOUT THE NCBI

“About the NCBI” FactSheet: ftp://ftp.ncbi.nih.gov/pub/factsheets/Factsheet_AboutNCBI.pdf

NCBI Handbook Chapter: <https://www.ncbi.nlm.nih.gov/books/NBK148949/>

List of many of NCBI’s Databases: <https://www.ncbi.nlm.nih.gov/gquery/>

“NCBI Resources” Factsheet: ftp://ftp.ncbi.nih.gov/pub/factsheets/Factsheet_NCBI_Overview.pdf

NCBI’s Outreach & Education Site: <https://www.ncbi.nlm.nih.gov/home/learn/>

NCBI NEWS & SOCIAL MEDIA:

NCBI Insights Blog: <https://ncbiinsights.ncbi.nlm.nih.gov>

Facebook: <https://www.facebook.com/ncbi.nlm>

Twitter: [@NCBI](https://twitter.com/NCBI)

YouTube Channel: <https://www.youtube.com/user/NCBINLM>

LinkedIn: <https://www.linkedin.com/company/3595640>

HELP EMail Address: info@ncbi.nlm.nih.gov

NCBI ACCOUNTS & MyNCBI

NCBI Account – *Login system for all NCBI services*

Homepage: <https://www.ncbi.nlm.nih.gov/account/>

NCBI Account Guidebook – *Instructions and hints for how to effectively use your NCBI Account*

Download the file: https://ftp.ncbi.nlm.nih.gov/pub/morris/VANA2018/NCBIAccount_Guidebook.pdf

NCBI Account Dashboard Video Overview: <https://www.youtube.com/watch?v=ks46w3mNAQE>

NCBI Account Tutorial Video Playlist: <https://www.youtube.com/playlist?list=PL88E9E5EA3BECE0D7>

My Bibliography Labs – *Test site for trying and testing a new version of My Bibliography*

Homepage: <https://ncbi.nlm.nih.gov/labs/bibliography>

LITERATURE RESOURCES

PubMed – *Catalog of research projects with links to publications and datasets*

Homepage: <https://www.ncbi.nlm.nih.gov/pubmed>

PubMed Labs – *Test site for experimenting with and testing out new ideas, features and tools for PubMed*

Homepage: <https://www.ncbi.nlm.nih.gov/labs/pubmed>

PubMed Central (PMC) – *Research studies with high-throughput sequence data*

Homepage: <https://www.ncbi.nlm.nih.gov/pmc>

Bookshelf/Books – *Research studies with functional genomics data*

Homepage: <https://www.ncbi.nlm.nih.gov/books>

GLOBAL QUERY (“ALL NCBI DATABASES” PAGE)

Gquery – *Listing of most of the databases at NCBI*

Homepage: <https://www.ncbi.nlm.nih.gov/gquery>