BIM341 - 2020

Literature for a Poster Presentation
- Biochemical Pharmacology

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Learning Outcomes

• Understand some principles of constructing a scientific poster

• Efficiently search the biomedical literature with literature databases
Recommended resources


An excellent chapter covering all aspects of the scientific poster.

Some other good tips and examples:
http://guides.nyu.edu/posters
Search Strategies

• Choose appropriate databases (you may need more than one!)
• Carefully construct your search strategy
• Keep a Search History (databases will keep a history for each session)- login to more permanently keep search strategies and results
• Critically evaluate your results!
Choose a database- use the Library Guide
Searching

• All databases use the same syntax...

• **AND** = Combine different concepts
  • e.g. capsaicin and pharmacology

• **OR** = Add similar concepts e.g. rat or pig

• **NOT** = Exclude concepts e.g. bones not ulna
Example search in Scopus - a large scholarly database*

Scopus

Document search

Search

* Scopus and Web of Science only index peer-reviewed, journals, conferences and scholarly books
Results in date order - note refining tools & links to fulltext

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Year</th>
<th>Source</th>
<th>Cited by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigating the involvement of TRPV1 ion channels in remote hind limb preconditioning-induced cardioprotection in rats</td>
<td>Randhawa, R.K., Jaggi, A.S.</td>
<td>2007</td>
<td>Naunyn-Schmiedeberg's Archives of Pharmacology 390(2), pp. 117-126</td>
<td>0</td>
</tr>
<tr>
<td>A novel form of capsaicin-modified amyotrophic lateral sclerosis (ALS) mediated by TRPV1</td>
<td>Gehard, C., von Bohlen and Halbach, O., Hadler, M.D., Harteneck, C., Albrecht, D.</td>
<td>2016</td>
<td>Neurobiology of Learning and Memory 136, pp. 1-11</td>
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<tr>
<td>A literature review of the pharmacological sensitivity of human evolved hyperalgesia pain models</td>
<td>van Ameringen, G., de Boer, M.W., Groeneveld, G.J., Hay, J.H.</td>
<td>2016</td>
<td>British Journal of Clinical Pharmacology pp. 000-022</td>
<td>0</td>
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<tr>
<td>Antagonism of the proinflammatory and procoagulant actions of canonical and biased agonists of protease-activated receptor-1</td>
<td>Liu, T., Savage, E., Zhao, L., (...), Fairlie, D.P., Burnett, N.W.</td>
<td>2016</td>
<td>British Journal of Pharmacology pp. 2792-2793</td>
<td>0</td>
</tr>
<tr>
<td>Identification of histaminergic neurons through histamine 3 receptor-mediated autoinhibition</td>
<td>De Luca, R., Sivoxava, T., Yang, D., (...), Hazi, H.L., Szergeva, O.A.</td>
<td>2016</td>
<td>Neuropharmacology 106, pp. 102-115</td>
<td>2</td>
</tr>
</tbody>
</table>
Advanced Search Techniques –sometimes useful

• Truncation (*) and Wildcard (?)
• Useful for word variant searching
(Symbols may vary between resources)
E.g. wom?n; fluid* (for fluid, fluids, fluidics..)
Put phrases in quotes e.g. “fluid flow”

(For Google, use ~ e.g. ~fluid)
  • (check out the help / search tips on the database you are using)
Advanced Search Techniques (continued)

• Thesaurus --directs you to correct subject terms (like PubMed’s MeSH system). Usually more accurate than keyword searching

• (Not available in every database)

• Use database features like “Limits” to target your search

• Specialized databases (PubMed, SportDiscus) may have special tools for health searching

Want to master PubMed searching using the MeSH controlled vocabulary?:
Watch this wonderful short tutorial: https://www.youtube.com/watch?v=uyF8uQY9wys
I really want the article but can’t get the full text!

Try a Google Search

- [www.google.com](http://www.google.com) (not Google Scholar)
- Search for the title of your ARTICLE in parentheses, e.g. “understanding your cat”

You will get links to others’ references, but you may also just get the article. (Persistence and Patience sometimes pays)
Evaluate !- Is it evidence-based?

- Who wrote it? (authority?)
- Date (outdated?)
- Subject coverage (relevant?)
- Bias (not impartial?)
- Format (research or popular?)
- Referenced (sources documented?)
- Where is the source --eg. Academic / peer reviewed journal, or is it a trade magazine?
- What is the source—Primary research, Secondary (review), Tertiary (e.g a textbook) --- evidence-based?

Much more information in our Evaluation Guide
http://libguides.usc.edu.au/help-evaluating