Finding and Managing Scientific Information
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Research Guide: http://lib.guides.umd.edu/chemistryresources
Click on the tab “Course Materials” to find a specific course.

White Memorial Chemistry Library: http://www.lib.umd.edu/chemistry
UMD Libraries Web page: http://www.lib.umd.edu
Finding scientific literature

- Google Scholar
- PubMed
- SciFinder (create an account using your @umd.edu email address)
- Web of Science
- Knovel

Finding property information

- ChemSpider
- PubChem
- CRC Handbook of Chemistry and Physics
- Merck index
- Reaxys
- SciFinder

Difference between Research articles and Review articles: Research articles, called primary sources, provide direct or firsthand evidence about an experiment, event, object, person, or work of art and are. They have a Materials & Methods section (it could be called just “Methods” or “Experimental”) that describes how the experiments were performed. Review articles are secondary sources, as they describe, discuss, interpret, comment upon, analyze, evaluate, summarize, and process primary sources. They usually DO NOT have an experimental section.
Bibliographic Management Programs: EndNote Online / Mendeley / Zotero

Using EndNote Online (Formerly, EndNote Web)

Create an account for EndNote Online: www.myendnoteweb.com
Install EndNote browser tool bar and Word plug-in

Inserting Citations in a Word document: Cite While You Write (CWYW)

- Inserting citations from your EndNote Online library into a Word document
- Downloading plug-ins for Word (a tab for EndNote appears in Word): Go to Help, then to “Browser Toolbars and Plug-ins”
Creating a bibliography with EndNote Online

Statins are a group of drugs that inhibit cholesterol.\(^2\)

Finding Literature in PubMed

If you perform a search by entering key words in the general box next to PubMed on the main page, you will retrieve all articles that have mentioned these words. To avoid getting too many hits, you can use the indexing capabilities of PubMed to retrieve only articles that are specifically devoted to the topic you are interested in. This will allow you to get much more relevant literature and significantly fewer hits. To do that, click on Advanced and follow the instructions below.

On the main PubMed page (https://www.ncbi.nlm.nih.gov/pubmed), select "Advanced" to use the indexing capabilities of the database that will allow you to find works that are specifically devoted to the topic you are interested in.

Click on "Show index list" and select "enzyme inhibitors".

Select references for export and click on the Capture Reference bookmarklet in your bookmarks toolbar.
Filtering search results with Web of Science and exporting them to EndNote

Important: References exported directly from databases to EndNote will be found in the UNFILED group in EndNote Online.
Finding Literature with SciFinder

SciFinder searches simultaneously two large literature databases, the Chemical Abstracts database (CA PLUS) and MEDLINE/PubMed. You would need to create an account for SciFinder using your university email address.

Accessing SciFinder from off-campus

SciFinder training videos

Important: Select the option “references were found containing both of the concepts...”
Importing in EndNote references exported from SciFinder and downloaded on a computer.
Once you select SciFinder as a Favorite, it will show up as an import option

Import to a new or an existing group

2 references were imported into "Cholesterol" group.
Finding properties of chemical compounds in SciFinder by chemical name

Finding properties of chemical compounds in SciFinder by structure searching
Finding properties of chemical compounds in Reaxys

Click on “New Reaxys” and then on “Create Structure or Reaction Drawing.”

Structure searching in Reaxys

![Structure searching in Reaxys](image)

Reaction searching in Reaxys

![Reaction searching in Reaxys](image)