# CHEM 232 Assignment (Due by 11:59 PM on October 9, 2018)

## Q1. Your Information

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Q2. **Assignment is due by 11:59 PM on Tuesday, October 9, 2018**

**Assignment will be graded** and the grade will be included in your total grade for the course. There are 10 questions (Q3-Q12) that will be graded. Each correctly answered question gets three points. The maximum number of points for this assignment is 30.

After submitting the assignment, you will receive an email confirming the submission and showing your answers. You can stop working on the assignment and submit it later, but you have to use the same device (laptop or computer) on which you have started working on it. **Do not postpone submitting the assignment to the last few days before the due date**, because some of the databases might be undergoing maintenance (especially on weekends) when you need them.

On the [LibGuide course page](#), you can access all databases and the **Handout**, which shows how to use the resources. You need to create accounts for [SciFinder](#) and [EndNote Online](#) and install in EndNote the following programs:

- **Plug-in for Word** and **Capture Reference button**

If you have any technical problems installing these programs on your computer, contact **Technical Support for EndNote**: 800-336-4474 or [https://clarivate.com/contact-us/support/#us](https://clarivate.com/contact-us/support/#us)

If you have any problems with your account/login for SciFinder, contact **SciFinder Customer Service**:

[http://www.cas.org/contact-us/cas-customer-center](http://www.cas.org/contact-us/cas-customer-center)

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**Svetla Baykoucheva, PhD**  
Chemistry and Life Sciences Librarian  
STEM Library  
2403J Math Bldg  
[sbaykouc@umd.edu](mailto:sbaykouc@umd.edu)
Q3. Which of the following options will narrow down your search results in a literature database? (Read carefully before choosing an option)

- add more key words
- specify publication years
- select a document type (e.g., Review)
- all of the above
Q4. Finding literature in SciFinder

Perform a search in SciFinder by entering exactly the following terms in the search box for Research Topic:

arachidonic acid and oxidation

Find instructions on pp. 8-9 in the Handout or click here to see a video on how to search SciFinder and refine results.

After performing the search, on the next screen, select the following option:

...references were found containing both of the concepts "arachidonic acid" and "oxidation".

Click on the Refine tab and limit results by the following criteria:
1. Research Topic: enter the word inflammation in the box under "Research Topic"
2. Document Type - Review: Select "Document type" and check the box next to Review
3. Publication year to the period 2010-2016
4. Remove duplicates (from the Tools menu)

How many review articles were published during this time period?

- 105
- 318
- 81
- None of the above
Q5. Exporting references from SciFinder to EndNote Online and creating a bibliography

From the final results retrieved in the search described in the previous question, select the first three references and export them to your EndNote library. Create a bibliography with these references and format them in the ACS Style. See a video with instructions on how to perform a search in SciFinder, export references and import them in EndNote Online.

Open the file in Word, copy the bibliography, and paste it in the box below.
Q6. Searching for literature in PubMed using the ADVANCED search features

The Advanced option allows you to use the indexing capabilities of PubMed to retrieve only documents that are specifically devoted to the topic of interest. Performing a search by typing key words in the PubMed general box would retrieve ALL documents that have just mentioned the keywords you have used and will produce a large (and often unmanageable) number of results.

1. In PubMed, click on the Advanced link and perform the following search:

**enzyme inhibitors and cholesterol**

Click here for a video on how to perform this search. The entries should look as shown in the picture below.

2. Limit the search results to Review
3. Limit results to the following publication years: 1/1/2010- 12/31/2016
   (Use Custom range option for entering these dates).

How many REVIEW articles were published during this period?

- 108
- 240
- 352
- None of the above
Q7. Exporting references from PubMed using the Capture References button

Export to your EndNote Library three references retrieved from the search described in the previous question. To do that, on the page with the search results, click on the Capture Reference button (located in your bookmarks field). Watch a video how to perform a search in PubMed and export references to EndNote. Click here for instructions on how to install the Capture Reference button of EndNote on your computer.

Create a bibliography with these references, copy and paste the bibliography in the box below.
Q8.
**Import citations from EndNote Online into a Word document.**

In order to be able to insert citations from EndNote into a Word document, you would need to download the EndNote Word Plug-In, also called CWYW (Cite While You Write).

1. Install CWYW on your computer as shown in the video. (Watch a [video](https://umdsurvey.umd.edu/jfe/form/SV_0MxwLwFkrdo124t) with instructions on how to download CWYW and insert citations in Word documents.)
2. Open a blank Word document and write a paragraph with three sentences, each of which is related to the topic of a reference in the bibliography that you have created for the previous question.
3. Insert at the end of each of these three sentences the citation corresponding to them, using the ACS Style.
4. Copy the paragraph and paste it in the box below.

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Copy the paragraph and paste it in the box below.
Q9. **Finding properties of chemical compounds in SciFinder by drawing a molecular structure**

Draw in SciFinder the molecular structure shown in the figure below. Select "Exact search." Click on "Key Physical Properties" for the first compound. See a video with instructions on how to draw chemical structures in SciFinder and find properties of the chemical compounds.

Which of the numbers listed below corresponds to the **Melting Point** (Experimental), in degrees Celsius, of the first compound?

- 216
- 283
- 294
Q10. Reaction searching in Reaxys.

In Reaxys, draw the reaction as shown in the figure below and perform the search. Select the reaction with the following Reaction ID number: 120037 (Watch a video showing how to draw molecular structures and reactions in Reaxys)

Find the full text of the article by Goering et al., which reported this reaction and find out which of the compounds listed below has been used in this study.

- chlorostilbene
- 1-bromocyclohexene
- 2-bromobutene

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Q11. Finding chemical property information in PubChem

PubChem is a free database of chemical compounds and their properties.

Find property information for Acrylamide. Which of the following numbers corresponds to the Melting Point (in degrees Celsius) of this compound shown in the "Chemical and Physical Properties" section?

- 82.5
- 84.5
- 92.0
- None of the above

Q12. Finding literature with Web of Science

(1) In Web of Science, perform a search on fatty acids and beta oxidation and toxicity
(2) Narrow down the results to the time period 2012-2016
(3) How many Reviews (Under "Document Type") were published on this topic for this time period?

- 11
- 28
- 64
- None of the above
Q13. Which of the resources listed below have you used for the first time during this instruction?

☐ EndNote
☐ PubMed
☐ SciFinder
☐ Reaxys
☐ Web of Science

Q14. Did you find this instruction and the assignment useful?

☐ Yes, I have learned some new things
☐ No, I was already familiar with everything taught during this instruction

Q15. Last question of the assignment:
What did you like or dislike about this instruction and the assignment?
How could we make it more useful to you?