CHEMISTRY 426: Student Presentations

Project: You will prepare a 10 minute presentation to share with the class.

Topic Selection:
Post your topic in the Canvas discussion for your lab section, so the other students will know which topics are already taken. (Don’t post anything confidential on Canvas.)

Canvas discussion post:
1) Your Name:
2) Topic: _____ (name of medication), for treatment of ______ (name of disorder).
3) One sentence description of the disorder.

You will choose a recently (within 15 years) developed medication that is commercially prepared via a multi-step synthesis. You will explain two main topics related to the medication:

1. The organic chemistry involved in preparing the biologically active compound and how that chemistry relates to what we’ve studied in Chem 425/426. And,

2. How the medication functions to alleviate the disorder or disease state that it treats.

(If there is a different organic chemistry topic that you are passionate about, discuss that possibility with the professor. If you can demonstrate that the topic includes a strong focus on Chem 425/426 subjects, it might be approved.)
1st scientific journal article
For the scientific journal articles, print out and bring to class 3 pages: the abstract page, the conclusion page, and one page that shows some visual information, such as a reaction scheme, a table, or a graph.

2nd scientific journal article

"Dry-run": You will present your complete 10 minute oral report with verbal and PowerPoint presentation (including slides on computer screen) to some classmates, and provide feedback to each other (peer evaluation).
Bring 3 copies of your handout, 2 copies of your works cited, & 1 printout of your PowerPoint (large, so old prof. can read it). THIS IS NOT A ROUGH DRAFT. This is an official dress rehearsal. It must be your best effort.

To Instructor:
Email 3 files to instructor: works cited page, handout, and PowerPoint.
Printout of Handout (version #3; staple 1st )
Printout of Works Cited page (version #3; staple 2nd )
Printout of PowerPoint presentation (version #3; staple 3rd )

Whole class
Presentation: Repeat your 10 minute oral report with verbal and PowerPoint presentation, and bring 9 handouts for classmates

MORE INSTRUCTIONS:

Works Cited
Prepare a page listing at least 5 different sources that provided information on your topic. You are free to use a variety of resources (periodicals, newspapers, internet sources, textbooks, scientific journals, interviews of experts, etc.). Include at least one printed source (not Internet) and at least 2 scientific journal articles.

For the scientific journal articles, print out and bring to class 3 pages: the abstract page, the conclusion page, and one page that shows some visual information, such as a reaction scheme, a table, or a graph.
List your sources alphabetically by the author's last name, using the following format:


For Internet references, be sure to include the name of the main website, as well as the URL of the page. If available, include the author and other standard citation data, too.

After each reference, type a paragraph summarizing its contents, e.g., what kinds of useful information you found in it.

**Handout Contents**
Your name and topic should be printed at the top. The handout will be a 2 page document that will serve as a *reference for your classmates*. It will include the key points of your presentation, including a description of your compound and what it is used for, and how organic chemistry is involved. The name, structure, and important properties of the compound should be included. The synthetic reaction sequence should be included.

**Handout Citations**
*Citations* identifying the source of your information should be included throughout your handout. A minimum of 3 *citations* are required. *Within the body of the handout*, indicate references using the following format:

- Use parentheses and include the author's name, the date of publication, and the page from which the reference was taken.
- Books: (Hacker, 1999, p. 483)

Be careful to *avoid plagiarism*. According to Diana Hacker: “Three different acts are considered plagiarism:

- (1) failing to cite quotations and borrowed ideas,
- (2) failing to enclose borrowed language in quotation marks, and
- (3) failing to put summaries and paraphrases in your own words.” (Hacker, 1999, p. 483)

**PowerPoint Slides**
These should illustrate the main points of your topic and the information you are trying to get across to your fellow students. Use pictures or diagrams to capture attention, but be sure to label what everything is. Be sure that your presentation is neat, not overloaded with information, and easy-to-read. Please use a *text size* that can easily be read by the class so no one has to squint to see your info.
Oral Report and PowerPoint Presentation

The oral presentation should be 10 minutes long. Do not just read your slides word-for-word. Consider using notes or flash cards to remind you of the items you want to talk about. Make eye contact with the class and speak so every one can hear you. Practice to plan your delivery and timing.

Tell your audience what interested you about your topic, a description of your chosen medication and what it is used for, and how organic chemistry is involved. Try to link your topic to organic chemistry principles we've studied (stereochemistry, aromaticity, substitution, nucleophilicity, etc.). Try to make your report relevant and interesting to your listeners. Feel free to be creative in your presentation.

Things to include about the medication you choose:
Structure of compound & its functional groups & important properties.
Significance (What is this compound used for?)
Key definitions (Also put key calculations, if any, on your handout.)
How the compound is made (synthetic sequence & considerations)
How this compound relates to chemistry concepts we learned in class. (Try to use some of your organic chemistry class vocabulary words.)