Science and Wine Lab

In this lab we will focus on citations and an annotated bibliography. You will need to use Microsoft Office Word or Apples iWork to complete this assignment. For this lab you need to e-mail in to [adam.lundquist@nn.k12.va.us](mailto:adam.lundquist@nn.k12.va.us), a word document that contains the following information. The rubric is on the adjacent page.

On the first line of the document put your partners and your name.

**Title:**

* On the second line of the document put your title
* Your title should be scientific and define the variables you tested.

**Citations:**

Council of Science Editors (CSE) Style

* In biology it is common practice to use the CSE documentation method. CSE has three different ways to document sources. I would like you, when you do your final paper to utilize the citation-name system, which puts all sources in alphabetical order and numbers each one according to that alphabetical order. Every time the source appears in the final paper, the same number is used as a superscript (highlight the number in microsoft word and press Ctrl + shift + +/=). At the end of the paper a reference list is given documenting each number with a full publication citation regarding the source.
* The general format for the end citation is: author name, title, and additional items (including year of publication)
  + I am not a CSE representative and am a chemist by trade so I do not expect perfection. I do, however, expect to be able to find you publications given your citations.
  + You may not need to use every source you find for your final paper’s introduction but you should keep in mind that this is to prepare you for the final assignment.
  + Additional help can be found here: <http://www.libraries.psu.edu/psul/lls/students/cse_citation.html>

Buzz words for you to look up for your research in this lab:

* Fermentation
* Yeast
* Enzymes
  + Lock and key model
  + Optimal conditions
* Sucrose
* ONE of the following
  + Glucose
  + Mannitol
  + Splenda

**The Assignment**

* Create an annotated bibliography of primary research on wine and fermentation. There is A LOT out there, use the library’s journal finder (<http://journalfinder.wtcox.com/cnu/>) to find journal articles on fermentation, alcohol, and other information that may help you with your final paper
  + HINT: I would look at the materials available for your experiment and maybe research any you think you may want to use but do not know anything scientific about (EX: methanol)
* Once you have five (5) good articles or journals you are to create an annotated bibliography of them
  + Annotated – to summarize or assess
  + Bibliography – a list of sources
* You are to cite each source in citation - name CSE format, then below it give a BRIEF synopsis of the article/journal and how it pertains to this lab.
  + Aaron Wilmer, at L. V. Johnson Library, gives a 4 part synopsis of how to write this paragraph:

**A: Talk about the author. (1 sentence)**

Is this a professor? Maybe this is a professional in the field? Or is this person a hobbyist? Tell the audience about the author in the first part of the annotation.

**B: Explain what the article is about. (1-3 sentences)**

Tell the audience what is in the article. This is the most difficult part of the annotation because it requires you to be very succinct. Don’t rewrite the article; just write the base facts and important notes about the article here.

**C: Explain how this article illuminates your bibliography topic. (1-2 sentences)**

What about this article makes it relevant to your topic? Why did you select it? What pertinent bit of information makes this article stand out among the others?

**D: Compare or contrast this work with another you have cited. (1-2 sentences)**

How does this specific article relate to another article in your annotated bibliography? Do they agree or not? Why not? What makes them unique?

* Your partner and you should ACTUALLY read the article or journal (not just the abstract)

Next week we will do the full science and wine experiment using variables outlined in your text and you will have to write a FULL scientific research paper on THAT experiment. Before you research you may want to look over that lab so that you can use these sources for your paper. This final paper will be worth 2 assignment grades (50pts rather than the usual 25).

SAVE YOUR FILE AS: ANN. BIO. your-last-name time-of-class abbreviation-for-day

Day abbreviations are Monday (M), Tuesday (T), Wednesday (W), Thursday (R).

Class meet either at 6 or 8

so If I were to save my data for a class that meets on Mondays at 8 it would look as follows:

ANN. BIO Lundquist 8 M.docx

Email your file to [ADAM.LUNDQUIST@NN.K12.VA.US](mailto:ADAM.LUNDQUIST@NN.K12.VA.US)   
with the subject: ANN. BIO. your-last-name your-partner’s-last-name

STUDENTS:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
student 1 student 2

Each source is worth up to 5 points.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Excellent** | **Good** | **Average** | **Poor** | **Unacceptable** |
| **Source 1** | 1 cited correctly  2 I know who wrote it  3 I know what it is about  4 It relates to the lab  5 it relates to other works | One (1) of the parts of the excellent category is missing | Two (2) of the parts of the excellent category is missing | Three (3) of the parts of the excellent category is missing | Four (4) of the parts of the excellent category is missing |
| **Source 2** | 1 cited correctly  2 I know who wrote it  3 I know what it is about  4 It relates to the lab  5 it relates to other works | One (1) of the parts of the excellent category is missing | Two (2) of the parts of the excellent category is missing | Three (3) of the parts of the excellent category is missing | Four (4) of the parts of the excellent category is missing |
| **Source 3** | 1 cited correctly  2 I know who wrote it  3 I know what it is about  4 It relates to the lab  5 it relates to other works | One (1) of the parts of the excellent category is missing | Two (2) of the parts of the excellent category is missing | Three (3) of the parts of the excellent category is missing | Four (4) of the parts of the excellent category is missing |
| **Source 4** | 1 cited correctly  2 I know who wrote it  3 I know what it is about  4 It relates to the lab  5 it relates to other works | One (1) of the parts of the excellent category is missing | Two (2) of the parts of the excellent category is missing | Three (3) of the parts of the excellent category is missing | Four (4) of the parts of the excellent category is missing |
| **Source 5** | 1 cited correctly  2 I know who wrote it  3 I know what it is about  4 It relates to the lab  5 it relates to other works | One (1) of the parts of the excellent category is missing | Two (2) of the parts of the excellent category is missing | Three (3) of the parts of the excellent category is missing | Four (4) of the parts of the excellent category is missing |

I do not need to see your data as I will see it on your final paper.

The rubric for your final paper will be available on the ecology tab at cnubio.weebly.com after we have completed this lab.

**Grade update: 1st student 2nd student**

Assignments (60%): \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Quizzes (20%): \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Presentation (10%) \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_