**Post-lab Assignment for Exercise 3**

**Insect Identification**

**1.** Using peer-reviewed scientific literature, compose a hypothesis regarding the presence or absence of *Wolbachia* within your insect specimen. This should be in paragraph format in a Word document. (I cannot read a Pages file, so don’t bother submitting one). Your initial literature search should focus upon the Order in which your specimen belongs.

* A good way to state your hypothesis would be: “Currently available data regarding (insert Order, here) indicate that there is a high likelihood of *Wolbachia* being present in the (insert your Order, here) collected.” Then go on to describe the supporting evidence in a brief, but clear manner, and cite the papers you found.

Example supporting statement: *Wolbachia* have been detected in parasitic wasps of the order Hymenoptera in South Carolina (Arnold, 2012). \*\*Visit my example Powerpoint in D2L to see the proper format for citing within a document. The general format is (Last name of first author, year).

* Your hypothesis should be based upon AT LEAST 2 PEER-REVIEWED ARTICLES. In addition to citing references within your hypothesis, please compose a complete bibliography, and include it at the end of your hypothesis.
* There is a strong possibility that your Order has not been studied, yet. In this case, broaden your literature search to include other things such as the same habitat as your insect, etc., such that your hypothesis will be based upon something published. The librarian can help.

\*\*If your hypothesis consists of a single sentence stating, “I predict *Wolbachia* will be found within my insect”, and you do not provide supporting evidence, you will receive an “F” for this part of the post-lab assignment.

**2.** Create a Powerpoint slide(s) that contains your drawings of your insect, and indicate the Order. This slide belongs in the **Results** section of your final presentation. On the drawing(s) indicate and label the specific structures and features you used in the key to help you identify the Order of your insect. You may include an additional slide in which you label a digital image taken through the eye-piece of the microscope, but that is not required, unless the features are not evident in your drawing. For those who struggle in the art department, labeling the digital picture from the microscope may be your best option.