CHECKLIST FOR FINAL PRESENTATION SLIDES AND ORAL PRESENTATION

BIOL 1107, Spring 2015

Please use the checklist below to determine what should be included (and what can be excluded) from your final presentation as well as the expectations for your oral presentation. You may also view the *General Guidelines* document for more guidance while preparing your final presentation.

OUTLINE

* List the major components in your presentation.

\* See example Powerpoint for guidance.

\* Not an extensive list– its purpose is to allow the speaker to settle in and orient the audience as to what they are about to hear.

INTRODUCTION

* *Wolbachia* – What are they, where do they live and how are they transmitted?

\* What kind of organism is *Wolbachia*

\* Endosymbiosis defined

* 3 types of endosymbiosis described

\* Hosts of *Wolbachia* described

\* General location of *Wolbachia* within host described (what part of the organism)

\* Vertical and horizontal transmission described

\* Most common *Wolbachia* transmission described

\* Sexual parasitism described

\* At least one example described. It is *not required* to include all 4 types

\* overall outcome of sexual parasitism described

\* benefit of sexual parasitism to *Wolbachia*

* How have humans used knowledge of *Wolbachia* endosymbioses to our benefit?

\* At least one example of a disease humans have combated using knowledge of *Wolbachia*

\* Relationship between disease-causing organism and *Wolbachia* described

\* Human action relating to stopping this disease. (How does it work?)

* Value of Armstrong BIOL 1107 Lab students’ scientific contributions

\* Importance of sampling in lowland ecosystems described

* Primary aims of the project

\* Aim 1

\* Aim 2

HYPOTHESIS

* Hypothesis regarding the presence or absence of *Wolbachia* within your insect specimen.

\* 2 References cited (within the hypothesis slide, and in the bibliography).

\* Your logic described in bulleted format (NO PARAGRAPHS!)

RESULTS

* Insect Collection

\* Method(s) of collection are named and described

\* Date, time, location, environment, number of insects collected

\* Drawings of your insect and/or digital photo

\* Key anatomical features (those that helped you identify the insect) labeled

* DNA Extraction
* A260 & A280
* A260/A280 Ratio
* Conclusion regarding if your sample is highly enriched in DNA. What does this say about the level of protein contamination?
* Concentration of DNA in your sample.
* PCR and Gel Electrophoresis

\* Slides created during Exercise 7B

* Sample lanes labeled (ladder lane optional)
* Name of target genes and location in gel.
* Band sizes in ladder indicated (including units – “bp”)
* Size of target genes approximated based on ladder.
* CONCLUSIONS:
  + *Wolbachia* present?
  + Controls appear as expected?
  + Anything surprising?
* Phylogenetic Analysis of *Wolbachia* sequence.

\* Slides created for Exercise 9

* Identity of the insect from which the *Wolbachia* DNA (your “Query Sequence”) was obtained. This is the insect host found at Armstrong.

-insect order

-Was the DNA from your sample, or someone else at Armstrong?

-If someone else, then who collected it?

* Table of top 6 hits from your BLAST search, including the following information:

-host organism

-max identity

-other info deemed relevant (collection location, common name, E-value, etc.)

* Insect phylogeny with the host organisms (the hits in Part b) from your BLAST search circled; the host organism from Armstrong should also be identified.
* Your conclusion regarding possible inheritance/transmission of *Wolbachia* based on the data from above (no more than a couple words!). How did *Wolbachia* get into the host collected at Armstrong? Vertical transmission? Horizontal transmission?

REFERENCES

* References for introduction and hypothesis are listed in proper format:
  + For Powerpoint video: Title of Presentation. Author. Course #. University. Year
  + For a website: Title of Website. Organization that Posted the Site. URL. Year of copyright or last update.

PROFESSIONAL APPEARANCE

\* Summary is professionally written -- no spelling or grammar errors; scientific names are written correctly and italicized (i.e., *Wolbachia* or *Aedes*). Genus and species should be italicized. Anything else in taxonomy (like a class or order) does not need to be italicized. A genus is capitalized; species is not. EXAMPLE: *Mycobacterium tuberculosis*

\* Information is presented in bulleted statements or phrases

\* Slides do not contain paragraphs

CREDIT FOR WORK

* To ensure credit is distributed appropriately, please indicate the person/people who contributed to each slide by putting the appropriate initials in the bottom right corner of each slide.

ORAL PRESENTATION

|  |  |  |
| --- | --- | --- |
| III: Oral Presentation | Time Limit | * The presentation lasted very close to 8 minutes, leaving time for questions. |
| Division of Labor | * Each student presented an equal amount of information with smooth transitions. |
| Presentation Skills (Individual) | * Individual presenters did the following:   + made appropriate eye contact with audience members   + spoke loudly enough for all to hear   + spoke at an appropriate pace   + did not only read the text on the slides   + exhibited a professional demeanor   + demonstrated a clear understanding of the information presented |