

Expectations for Bioinformatic Portion of Final Presentation, June 2019:

First of all, do not be nervous! These presentations are not meant to be stressful experiences, rather opportunities for you to reflect on your experiences and what you have learned. I am only writing this outline because I believe it could be a helpful point-of-reference for what we have covered in this portion of your summer REU. Below are a series of questions that are meant to act as prompts for you to outline your presentation.

1. What gene were you provided?
 - a. What is its annotation?
 - b. What domains does it have?
 - c. Are there any related genes that have known function (i.e. BLAST hit to well-documented gene)?
2. How is this gene expressed?
 - a. Does it increase expression in response to pathogen challenge (i.e. the RNA-seq dataset we worked with)?
 - b. Is this increase or decrease significant?
3. How has this gene evolved?
 - a. What orthogroup does it fall into?
 - i. What is an orthogroup?
 - b. Is it a large or small orthogroup?
 - i. What does that mean?
 - c. What does the phylogeny look like?
 - i. What is the pattern of duplication?