## **Final Project Grading Rubric**

Criteria	Points
Study Background	
Presenter details (in 1-2 slides) the necessary background and motivations for their chosen	
study. Include the specific biological questions being raised/asked and how this study	
attempts to address them.	5 pts
Description of dataset generation & published results	
Presenter details the methods and approaches used to generate the genomics dataset	
used in this study. (1-2 slides). This should include a description of the samples, sample	
source materials, how they were processed, what materials were extracted, how any	
sequencing libraries were prepared, and how these data were analyzed/processed by the	
original authors. Presenter should also explicitly define/describe the experimental design	Ento
for any comparisons or integrative analyses used in the original study.	5 pts
Reproduction of prior results	
Presenter attempts to reproduce 1-2 main figure results from the original study. This can	
be using reproducible code provided by the original authors, or with original code	
developed by the presenter. Presenter will be evaluated on 1) their ability to reproduce 'the	
intent' of the result even if it is not exact or produces a different outcome, 2) their ability to	
describe specific roadblocks or other issues that make their study more difficult to	
reproduce, and 3) clear demonstration of an effort to address, circumvent, or otherwise	
account for roadblocks in reproduction. WE ARE NOT GRADING ON ACCURACY OF THE	
REPRODUCTION, simply a demonstration that a good faith effort to perform a similar analysis has been made.	5 pts
Description of challenges associated with reproduction of original	υ μισ
results	
Presenter demonstrates understanding of the specific obstacles associated with reproduction of their study. This can include data availability, annotation differences,	
subjective interpretations, unknown parameters, and/or missing data or accessory files as	
examples. Presenter should make a direct comparison to the published results and	
describe what specific differences they observed and why (or why not).	5 pts
Novel Analysis/interpretation of dataset	
Presenter attempts to derive a novel analysis or interpretation of the datasets in their	
chosen study. Presenter should aim to make a conclusion based on their novel analysis.	5 pts
Demonstration of logical workflow progression and appropriate use of	
software tools	
Presenter displays a strong understanding of the logical workflow for their novel analylsis	
including describing where/how this deviates from the published study workflows.	
Presenter is able to detail and defend their choise of software tools and choices in their	
chosen workflow.	5 pts
Presentation quality	
Presentation should be logically organized, sufficiently detailed, demonstrate clarity and	
coherence of thought, and effective use of images/figures. Pressenter speaks claearly and	T 1-
demonstrates understanding and familiarity with the presented material.	5 pts
Project Code Submission	
All project code and related materials (with the exception of raw data or other large files)	
should be packaged up, or deposited in an accessible repository, and submitted prior to	E nto
12/18/22. The code should be interpretable and well documented for review.	5 pts
Total Points	40 pts