Cho Lab Technical Exam

2023-01-10

Instructions

- This is an open-book assessment that may take few hours to complete.
- All tools, languages, and resources are fair game.
- Upload all files for your submission here with titles that include your name (e.g. chris-tastad-output.pdf)

Questions

- 1. Project Proposal Consider an unanswered research question of interest to you:
 - Construct a *high level* outline of a project to address this question detailing specific aim(s), method(s), statistical design, and predicted results to the extent you are able.
 - Feel free to use the template given here or write in a typical proposal format.
 - Note of emphasis: This is not an endurance exercise, and being excessively verbose is not required. Instead, we are hoping to get a sense of what is interesting to you and how you would execute your approach. Realistically shoot for less than a few hundred words.
- 2. Consider the unknown sequencing data given here.
 - Perform a QC process on this data, and aggregate your results into a single output.
 - a suggested approach would be to use a tool combo like fastQC/MultiQC
 - Provide a detailed assessment of the nature and quality of this data given your QC output.
 - Speculate on the type of sequencing used to generate this data.