BIMM170: Genomics Research Initiative Lab II Spring Quarter 2021 Tues/Thurs 1-4:50pm: https://ucsd.zoom.us/j/97230969152?pwd=dDhvdFR0VDJWeU5XanAzUGFWMTIoUT09 Password: phage

**Instructor:** Rachel Dutton, PhD <u>rjdutton@ucsd.edu</u>; Office hours Wed 1:30-3pm: <u>https://ucsd.zoom.us/j/95471735341</u>

IA: Tara Spencer <u>t2spence@ucsd.edu</u>; Office hours Wed/Thurs 10-11am

This course is part of the Howard Hughes Medical Institute (HHMI) SEA-PHAGES program. SEA-PHAGES (Science Education Alliance-Phage Hunters Advancing Genomics and Evolutionary Science, https://seaphages.org/) is a discovery-based undergraduate research course that begins with simple digging in the soil to find new viruses, but progresses through a variety of microbiology techniques and eventually to complex genome annotation and bioinformatic analyses.

## What we hope you will learn during this course:

- 1. Learn how to share and communicate scientific research. We will learn in an active way using several approaches: regular presentations in a lab meeting format, reading and presenting primary literature, making scientific posters, and preparing a scientific paper for publication.
- 2. Learn how to work with protein sequences to understand phylogeny and function.

## How this class is going to work:

- 1. Each week, we will introduce a new topic and assignment on Tuesdays, and do lab meeting-style presentations on Thursdays.
  - a. Lectures will be held over Zoom on Tuesdays/Thursdays from 1-4:50pm
  - b. Lecture zoom sessions will be recorded and uploaded to Canvas for viewing later
  - c. Participation in Zoom lecture sessions is encouraged but NOT required
- 2. For each assignment, you will work in groups to answer the questions and accomplish the goals for the week. Each group will be examining a different viral protein for the duration of the course.
  - a. Each group will work together on assignments, but each person will answer assignment questions in their own words, and maintain their own lab notebook documenting their work.
  - b. For each week, each group will build a short presentation on their progress
  - c. Both of these will require some coordination of meeting times for group members or some other way to work together remotely. You can use Zoom or any other technology that works best for you.
- 3. Each week you will be asked to fill out a form that will ask you to "self-report" your participation for the week via the Participation survey, turned into Canvas.

## How you will be graded in this course:

- 1. **Participation:** 20% of grade
- 2. Weekly Assignments and Lab Notebook Checks: 40% of grade
- 3. Poster: 20% of grade

4. Paper contributions: 20% of grade

## Other important information:

- 1. Class sessions will be recorded and made available to students asynchronously
- 2. This syllabus is subject to change.
- Please make sure that you check out this website for resources on how to learn remotely:
  <u>https://digitallearning.ucsd.edu/learners/learning-remote.html</u>
- 4. Students are expected to do their own work, as outlined in the UCSD Policy on Academic Integrity. Academic misconduct is broadly defined as any prohibited and dishonest means to receive course credit, a higher grade, or avoid a lower grade. Academic misconduct misrepresents your knowledge and abilities, which undermines the instructor's ability to determine how well you're doing in the course. Please do not risk your future by cheating.
- 5. I understand this is a challenging time and that you may have challenges with accessing the course material, and adapting to online-only learning. My goals are to teach you the course material, fairly assess your knowledge of this material, and grade you accordingly, while keeping these challenges in mind.