

Noemi Burgos

## General Biology Lab Assignments

### Week 1

Instructions: Fully answer the following questions using full sentences and proper grammar. The answers should reflect your own work. Any information taken from other sources should be cited using APA format.

1. What does the acronym SEA-PHAGES mean?

Science Education Alliance-Phage Hunters Advancing Genomics and Evolutionary Science

2. What are the main objectives of the SEA-PHAGES program?

It aims to increase undergraduate interest and retention in the biological sciences through immersion in authentic, valuable, with accessible research.

3. Why is program so important?

The program is supposed to help students to find new viruses through a variety of microbiology techniques which leads to complex genome annotation and bioinformatic analyses. The students will learn a sense of project ownership and have a personal research project at a fraction of the cost of traditional research programs.

4. What are phages? How many have been found by Nyack College students?

Phages are the research on viruses that infect bacteria (Nyack College, 2015). The Nyack institution founded 131 phages (Phagesdb.org).

5. What is the difference between COVID-19 and coronavirus?

COVID-19 is the acronym for Coronavirus disease 2019. There is no difference between the two, only the name.

6. What is the specific name of the coronavirus and where did it originate?

The specific name is the Coronavirus disease 2019 (COVID-19) and it originated in China in December of 2019.

7. How does the virus spread?

It can be spread through droplets and contact with people and objects. If a healthy person touched a doorknob that had droplets and then touched their face, that is a gateway for the virus to enter the body.

8. Explain how you can minimize your risk of exposure and getting sick.

By washing your hands, avoid touching your face, and stay home no matter what unless if it is necessary.

9. What should you do if you are feeling sick or are worried about exposure?

Stay home and call your doctor. Wear your mask that should cover your mouth and nose. And call your doctor!

10. Which individuals have the highest risk of getting sick from the virus?

People who are 65 years old and older, people who have health problems, and people whose immune system does not work well.

11. What did you learn from the video which you did not know previously?

To be honest I did not really learn anything new coming from someone who did have the virus, but I now realize why in the bathrooms of my house has paper towels. I never knew they were there for an actual purpose.

## References

College, Nyack. "Twenty-Five Nyack College Contributors to SEA-PHAGES Research." *I AM NYACK*, 29 Apr. 2015, [www.nyack.edu/news/twenty-five-nyack-college-contributors-to-sea-phages-research/](http://www.nyack.edu/news/twenty-five-nyack-college-contributors-to-sea-phages-research/).

"The Actinobacteriophage Database: Institution Detail." *The Actinobacteriophage Database | Institution Detail*, [phagesdb.org/institutions/NYAK/](http://phagesdb.org/institutions/NYAK/).