Braxton Hawkins BIOL 294 April 4, 2022 Instructor: Janet Rinehart-Kim

## Writing assignment #5

This article talks about the world's largest genetic study of Covid-19 that involved more than 57,000 people. The article mentions how there was about 16 new genetic variations associated with sever forms of the virus had been identified. The findings that were obtained from this large study will act as a possible roadmap for future studies, allowing for new fields of research to be conducted on uncovering more about this virus. The study that was conducted gather genomes from 7,491 ICU patients that were from 224 intensive care units in the United Kingdom and sequenced them. The DNA of the infected was compared with 48,400 people who had not contracted the Covid-19 virus, along with 1,630 people who had experienced mild cases of Covid. After determining the whole genome sequences of all the participants in the study, the team could then create a precise genetic map and identify genetic variations that were linked to Covid-19.

This article relates to genetics because the study that had been performed allowed for the team to create a genetic map of infected individuals with the Covid-19 virus, which they could then compare with the genetic maps of individuals who had never been infected. This genetic mapping of the two groups provided a way to see what were different between those infected ant those who've never been infected. As a result of the genetic mapping, the study was able to identify 16 new genetic variations of the Covid-19 virus. along with, confirming the involvement of 7 other genetic variations that were already associated with Covid-19 that had been discovered in earlier studies by the same team.

## **Citations**

University of Edinburgh. "Genetic study gives extensive insights into severe COVID-19." ScienceDaily. ScienceDaily, 7 March 2022. <www.sciencedaily.com/releases/2022/03/220307113002.htm>