

IMMU 103: COVID-19 Vaccines: A Comparative Approach

By the end of 2019, a new coronavirus emerged in Asia and quickly spread around the world. This virus, now known as SARS-CoV-2, has become a global public health emergency due to its high death toll. Understanding the virus's physiology and developing vaccines to prevent more infections are currently main global scientific efforts. This course will explore the cutting-edge technologies used to create COVID-19 vaccines and compare the mechanisms of the different types of vaccines now available. Overall, this course will provide an overview of the vaccine development field's current state and provide a glimpse of the vaccines that will protect the population from the virus's new variants in the future.

Learning Objectives

- Describe the structure and physiological effects of the virus SARS-CoV-2.
- Describe the different scientific approaches used to develop COVID-19 vaccines.
- Compare the COVID-19 vaccines available in the US and the rest of the world.

Credits: 1

Class Type: Graduate Course

Program: Immunology and Microbiology