DEVELOPING VIRAL VACCINES

DATE: Thursday, April 11, 2019 – 10:00 AM

READING ASSIGNMENT:
Murray Medical Microbiology, 7th Edition, Chapter 48

EDUCATIONAL GOAL:
You will be able to describe the advantages of active immunization and how viral vectors may be used to generate multivalent vaccines.

KEY CONCEPTS AND LEARNING OBJECTIVES:
To attain the goal for this lecture you will be able to:

- Describe the differences between active and passive immunization.
- State the advantages and the potential problems associated with using a live, attenuated virus compared to a killed virus for vaccination.
- Describe how smallpox was eradicated.
- Describe how poxviruses may be engineered and used as a vaccine vector.
- Describe how chimeric Yellow Fever 17D vaccine is being used to develop vaccines for West Nile virus and Zika virus.