TRMD 6420 Tropical Virology

Professor: Daniel Bausch, MD

Credits: 3

Semester(s) Offered: Spring

Course Description:

This course covers the broad area of virology with an emphasis on viruses of public health concern in developing and tropical countries. Both historically problematic and emerging viruses are covered. Topics include the molecular biology, epidemiology, and pathology of selected viruses. Focus is placed on developing an understanding of the molecular aspects of the viral life cycle that give rise to transmission and pathogenic characteristics, especially in the context of the co-evolution of the virus and host. Additional topics include the interactions between the virus and host immune response, as well as viral control and the development of vaccines and anti-viral pharmaceuticals.
Learning Objectives:

1. Identify and describe the background, terminology, and tools necessary to converse and collaborate productively with public health experts in virology.
2. Identify and compare the viruses commonly circulating in tropical countries, including the basic biology, epidemiology, ecology, clinical presentation, and principle methods used for their detection, prevention and control.