

Rong Laboratory

Molecular Virology: Mechanisms of Viral Entry and Antivirals

Our laboratory is focused on elucidating the entry mechanisms of several emerging or reemerging viral pathogens and on developing potential antiviral therapeutics. Currently we are focusing the following viruses: filoviruses (Ebola and Marburg viruses), influenza viruses, Henipavirus, and arenaviruses. Here are some potential rotation projects:

1. Investigate the host factors involved in viral entry and replication
2. Screen small molecule inhibitors against different viruses
3. Use small molecules as chemical probes to study viral protein structures/functions.