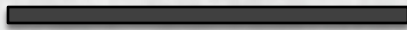


Viral Sub-species Classification



BV-BRC; NIAID; CDC; NCBI

Workshop

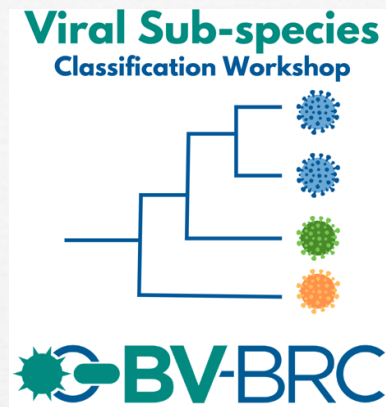
April 8, 9, 10, 2024

Virus Sub-species

- ◆ Variation between members of a species
 - ◆ Sub-species variation is evolution in real time
 - ◆ Evolution of new, taxonomically-distinct virus ranks occurs across more protracted time frames
 - ◆ Decades to millenia and more
- ◆ Viruses evolve in real time in response to selection pressure
 - ◆ Increasing fitness due to phenotypic consequences
 - ◆ Increased fitness impacts transmission, pathogenesis and disease
- ◆ We classify and name evolving lineages to study and track this process

Why do we Care?

- ◆ Intellectual curiosity
- ◆ To better understand how to respond more effectively to changing disease threats
 - ◆ Public Health response
 - ◆ Prevention
 - ◆ Treatment



- ◆ Day 1: What and Why
 - ◆ Tracking Evolution
 - ◆ The Viruses

- ◆ Day 2: How
 - ◆ Approaches to Classification
 - ◆ Tools

- ◆ Day 3: Response
 - ◆ Meeting Public Health Needs

- ◆ Next Steps