

# **Virology Module**

# Summary – significant research to date

- WNV evolution with time/movement
- Development of vaccine (equine)
- Mechanisms of invasion
- Identification of virulence determinants

# Issues

- Role of NVSL in support of states
  - Diagnostics
- Need for human vaccine development?
  - Depends upon molecular epidemiology
- States need to be able to do equine screening themselves

# Directions to take

- Molecular epi – viral evolution
- Biology of viruses
- Markers for surveillance
- Virulence determinants
- Role of animals other than birds
- Isolates from humans

# Needs to reach goals

- Funding
- Training
  - Arbovirology
- Reagents