

Codon 270

## **BUSTED** analysis summary

- West Nile Virus NS3 protein
  - No statistical support for selection; ML point estimate allocates a small proportion of sites (~1%) to the selected group (dN/dS ~ 2)
  - The rest of the gene is very strongly conserved (dN/dS = 0.004)

- HIV-1 transmission pair
  - Very strong evidence of strong episodic diversification (dN/dS ~ 100) on a small proportion of sites (2%)
  - The rest of the gene evolves with weak purifying selection (dN/dS = 0.6-0.7)
- SARS-CoV-2 spike
  - Evidence of episodic diversification (dN/dS ~ 15) on a small proportion of sites (~2%)
  - Most of the rest of the gene evolves with purifying selection (dN/dS = 0.2)