Key drivers of adaptation in pathogens

- Zoonoses and transmission to <u>new hosts</u> (both species and individuals)
- Immune selection of the host (CTL, innate, antibody)
- Development of drug resistance (therapeutics)
- Virulence/transmissibility also tropism shifts
- Host/pathogen arms-races, e.g. host antiviral factors
- Most of the time, most of the viral genome is conserved

Evolution of Coding Sequences

