Source: KBhBIO101Viruses

1 | Viral Genetic Mutations

1.1 | Genetic SHift

Whole segments of genome exchange abruptly as two flu viruses infect the same cell to create a new strand.

1.2 | Genetic Drift

Single/groups of nucleotides flip slowly over time due to mistakes in [KBhBIO101RNAReplication].

The former is an environment-dependent process, where the latter is able to be modeled as it is due to transcription mistake.

1.3 | Mutation w.r.t. [KBhBlO101TypesOfViruses]

Viral genome size vs. mutation rate

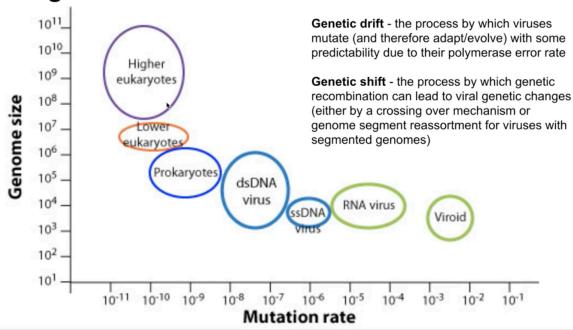


Figure 1: Screen Shot 2020-10-12 at 11.24.39 PM.png

- RNA viruses could mutate more because it does not have checks
- More complex+largest viruses (DNA viruses harder to mutate