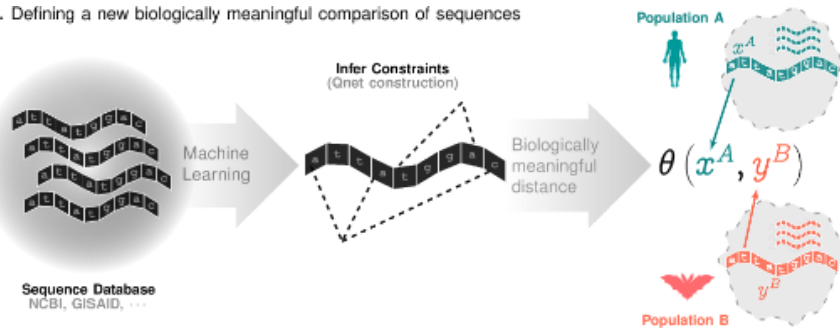
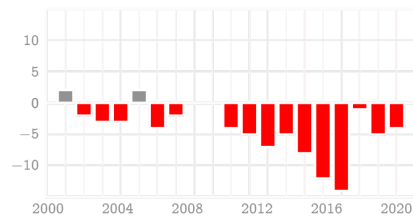


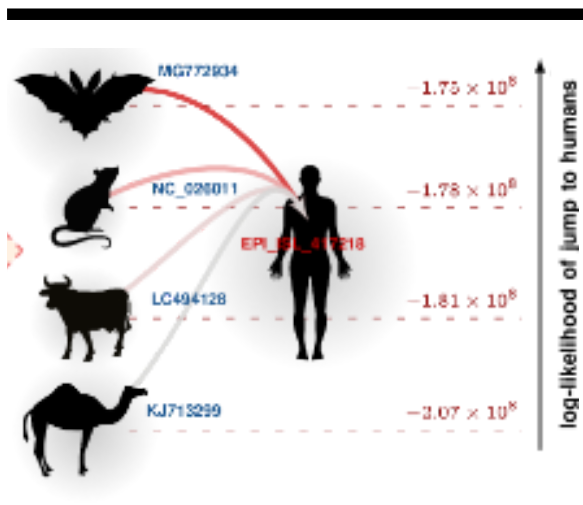
a. Defining a new biologically meaningful comparison of sequences



a. Influenza A H1N1 HA

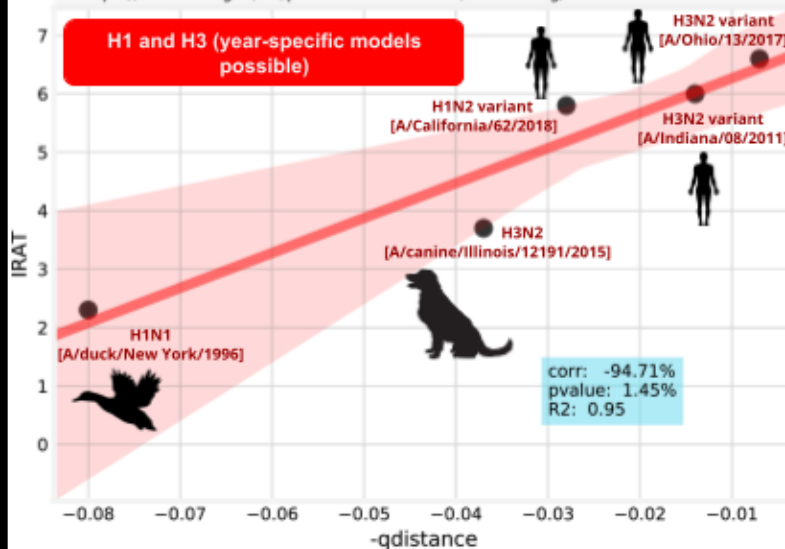


c. Influenza A H3N2 HA

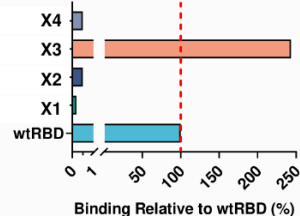


CDC-published IRAT* vs Q-distance

* <https://www.cdc.gov/flu/pandemic-resources/monitoring/irat-virus-summaries.htm>



b. Relative Binding Affinity



c. Antibody Neutralization

