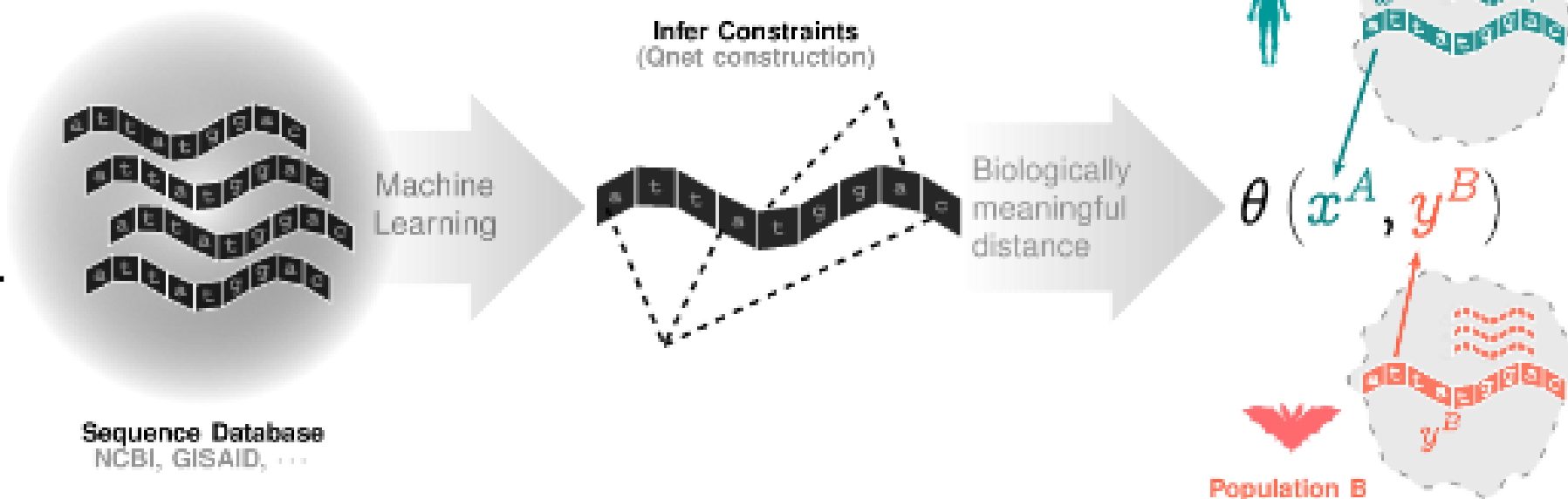


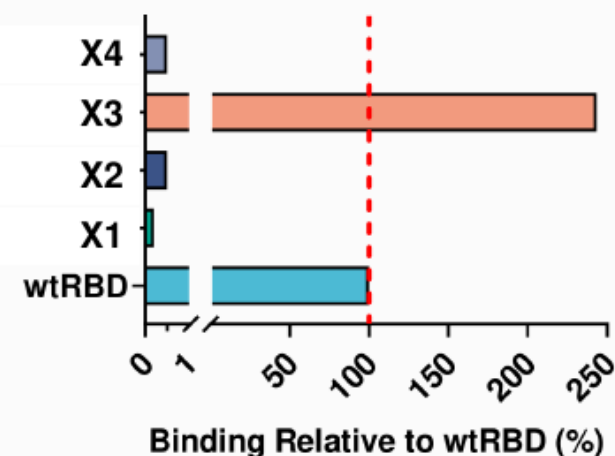
# a. Defining a new biologically meaningful comparison of sequences

conceptual scheme

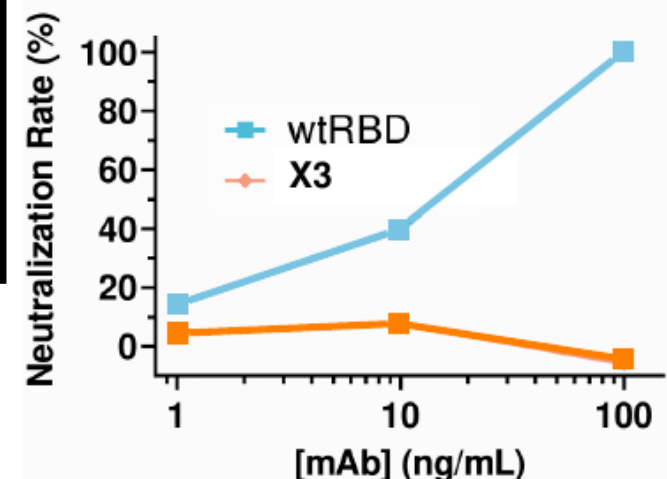


# Preempting new SARS-CoV2 variant

## b. Relative Binding Affinity

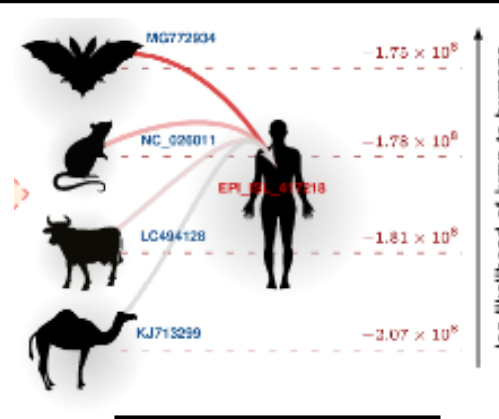
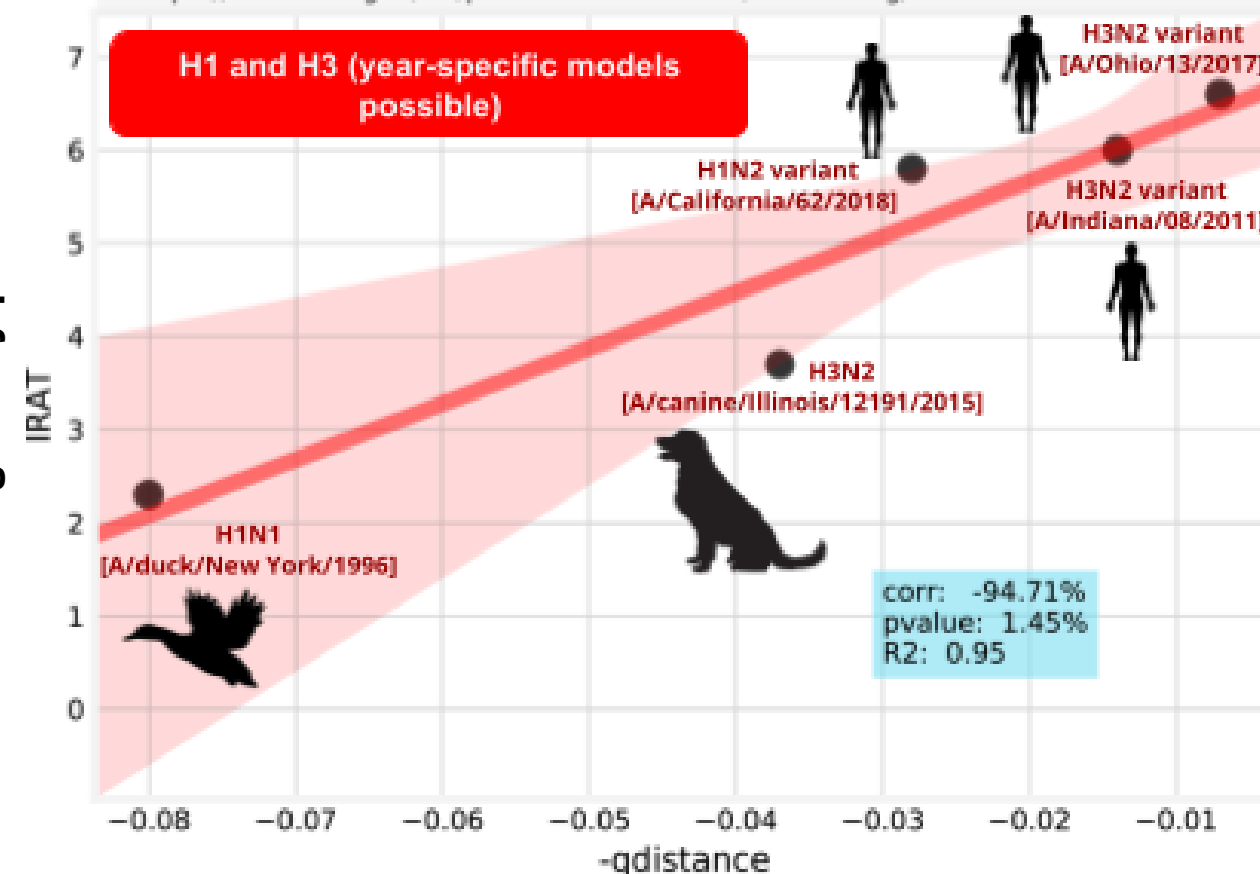


## c. Antibody Neutralization



## CDC-published IRAT\* vs Q-distance

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



## Seasonal flu prediction

