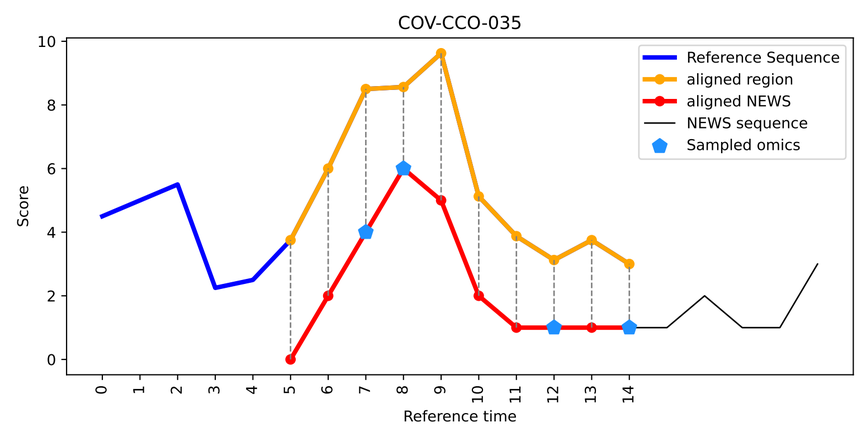
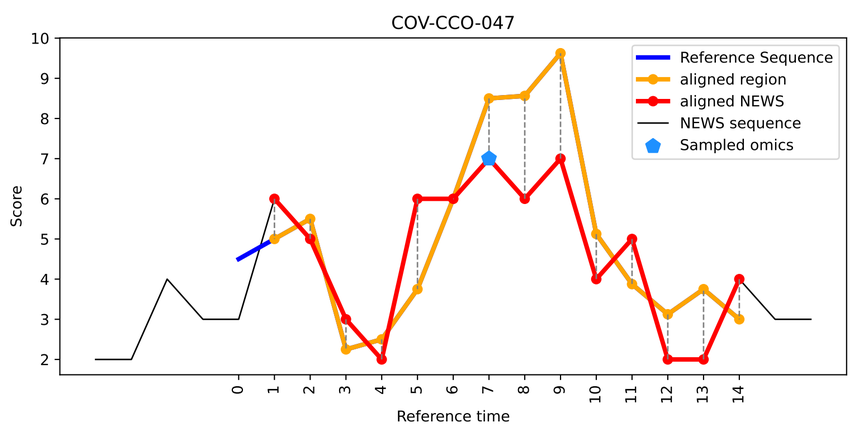
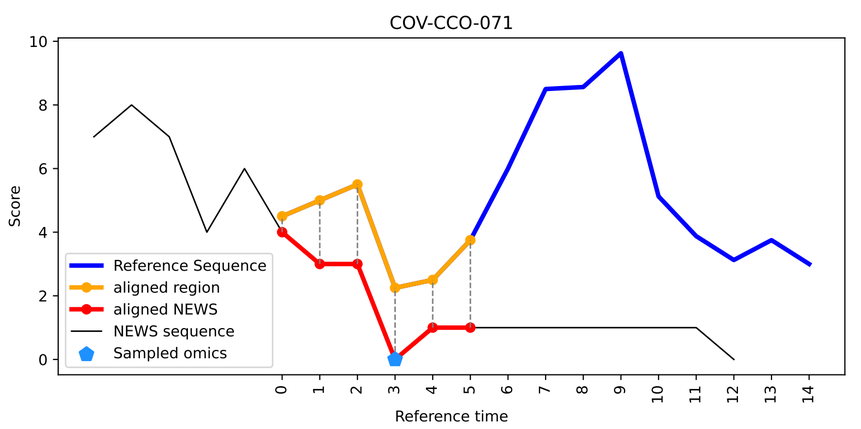
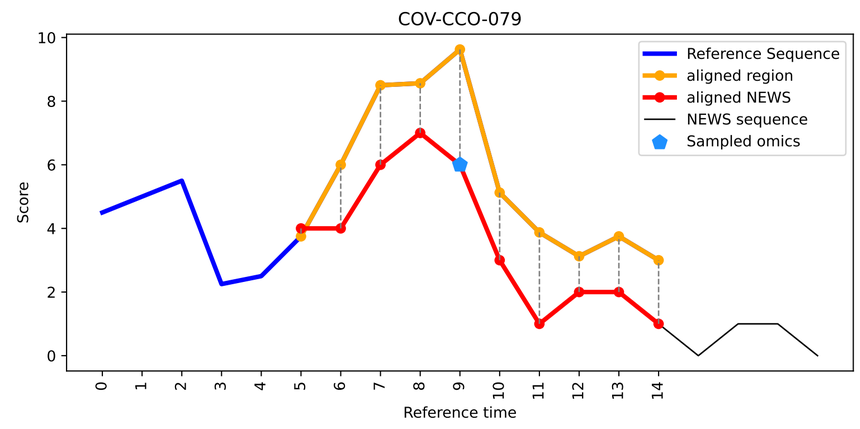
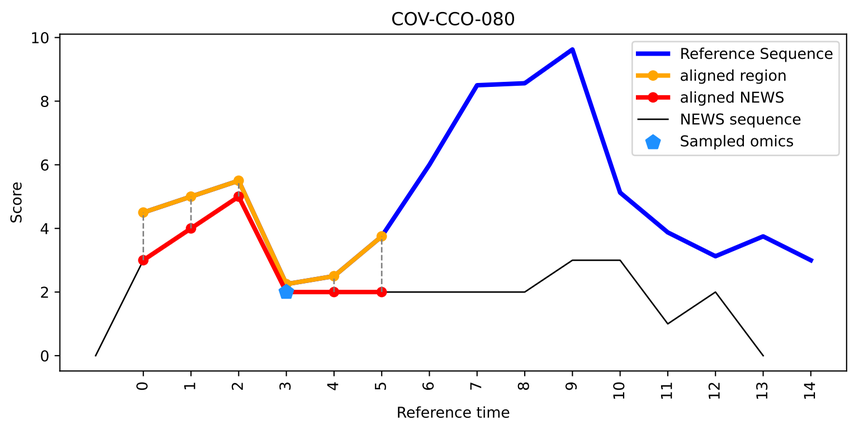
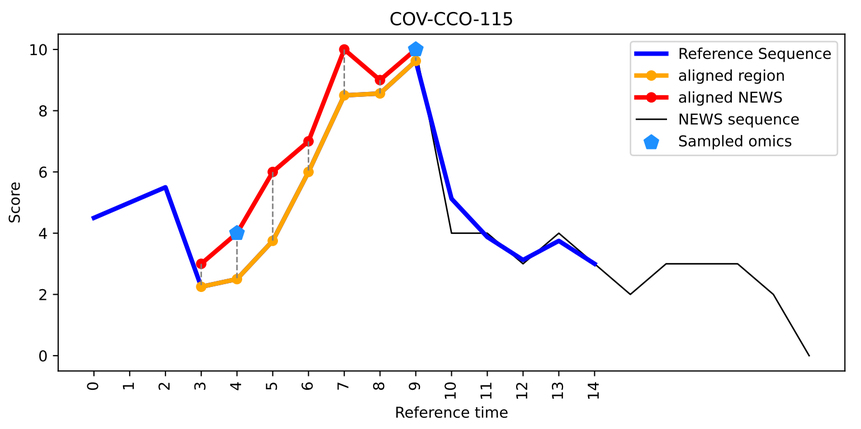

COV-CCO-035
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

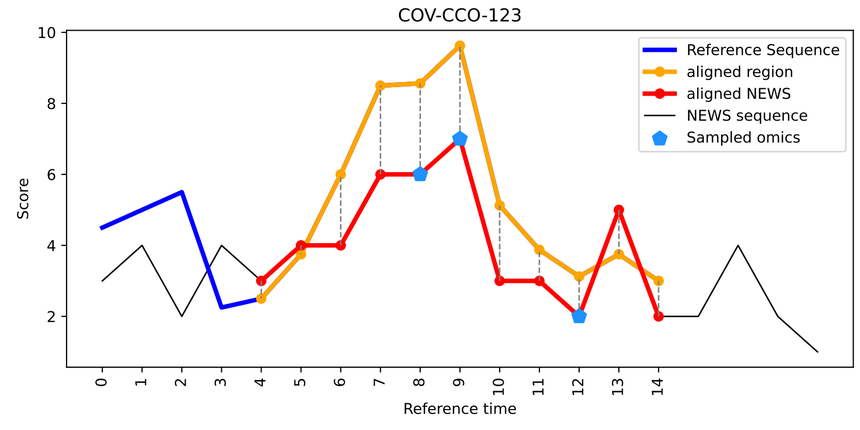

COV-CCO-047
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

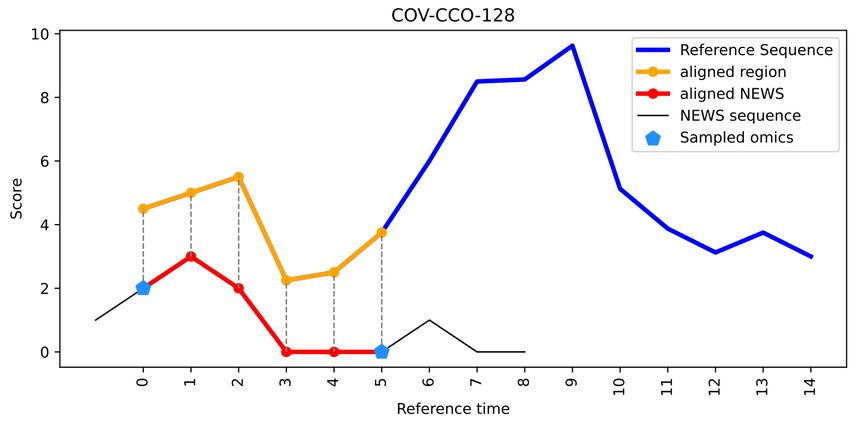

COV-CCO-071
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

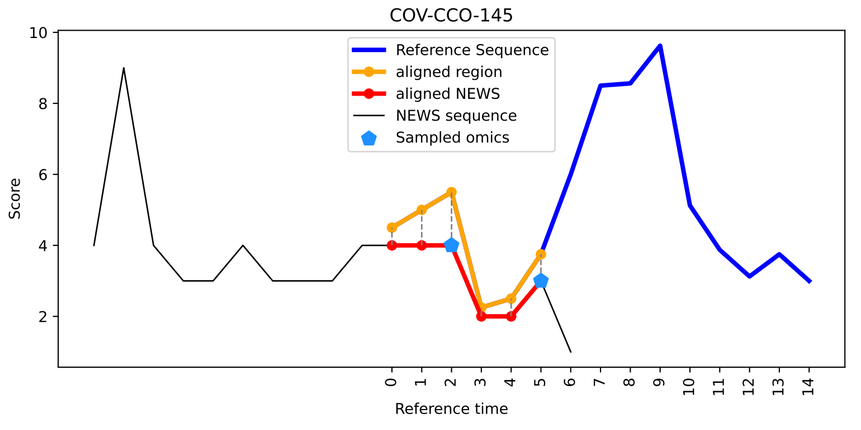

COV-CCO-079
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

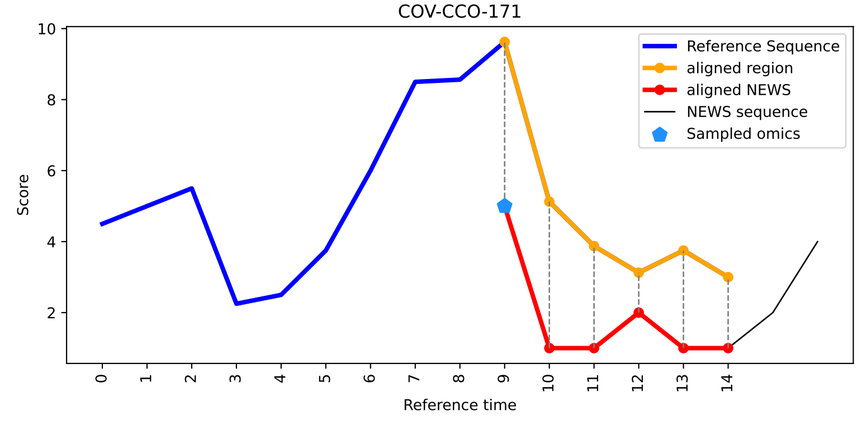

COV-CCO-080
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

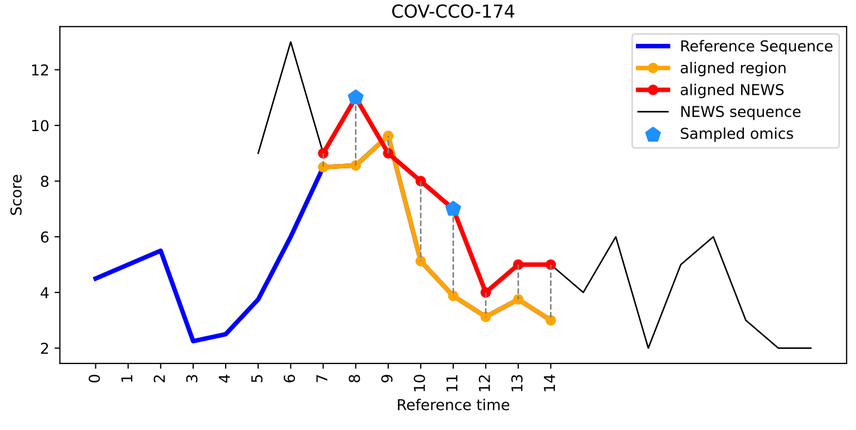

COV-CCO-115
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

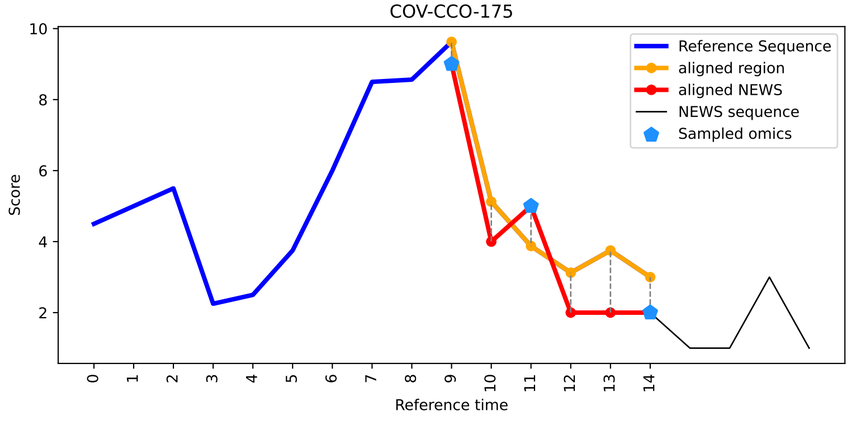

COV-CCO-123
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

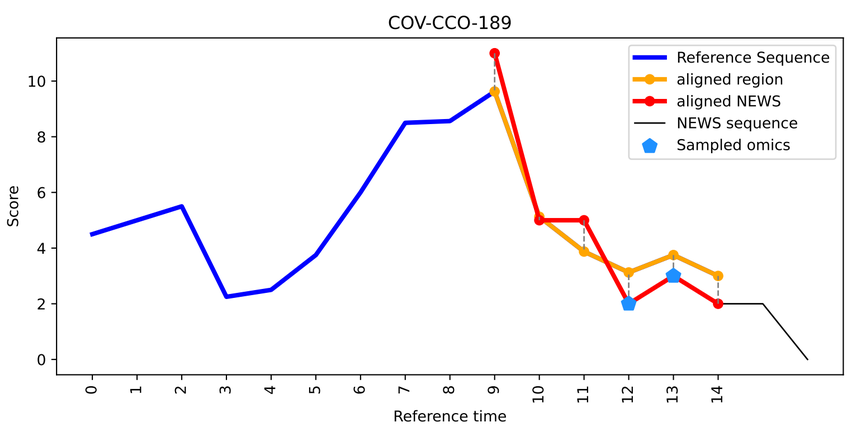

COV-CCO-128
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

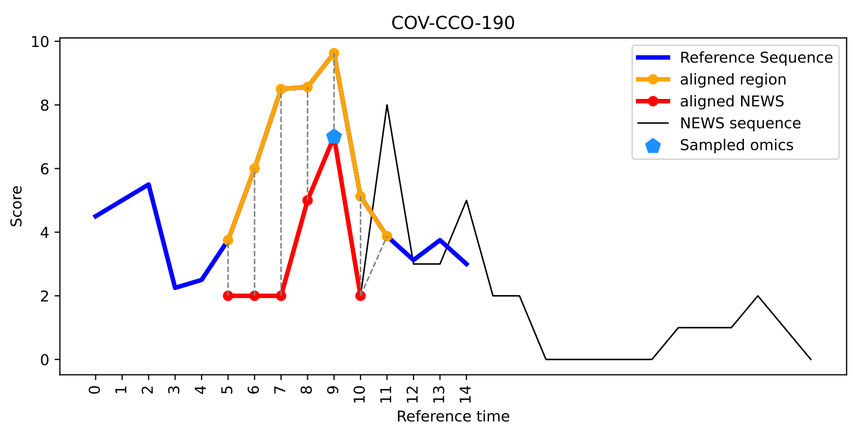

COV-CCO-145
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

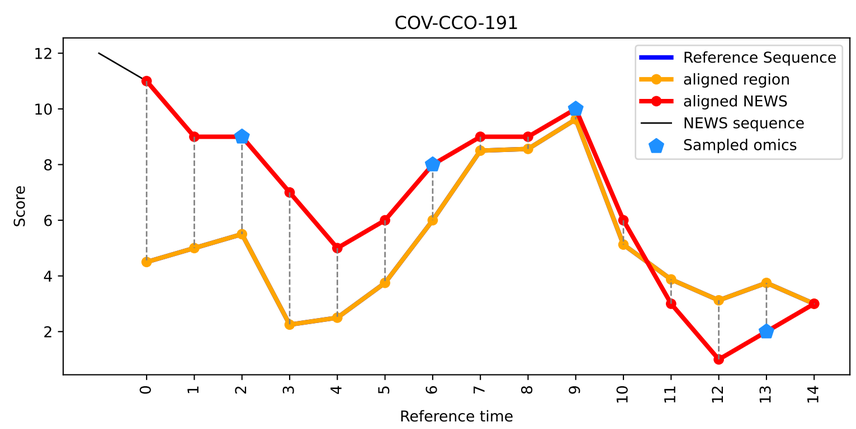

COV-CCO-171
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

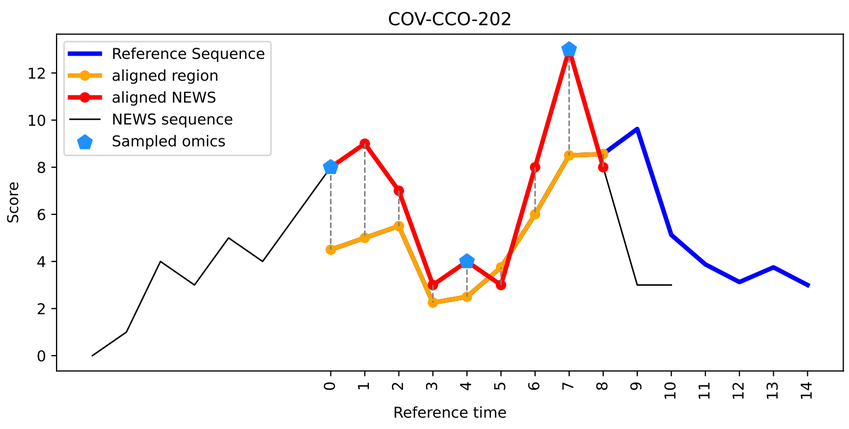

COV-CCO-174
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

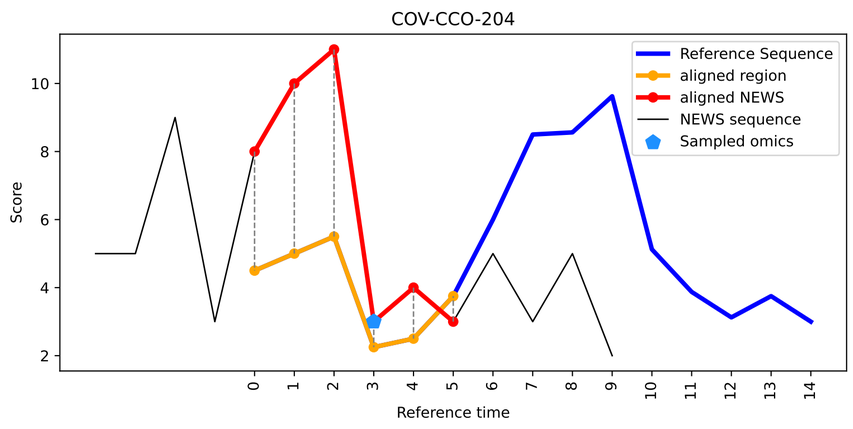

COV-CCO-175
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

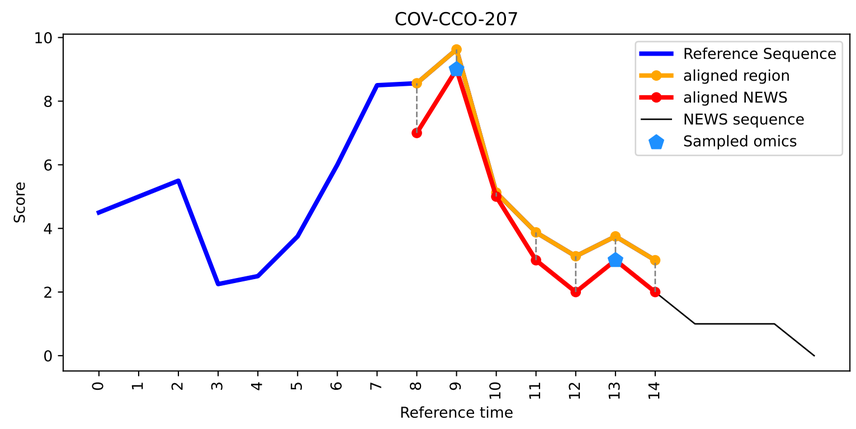

COV-CCO-189
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

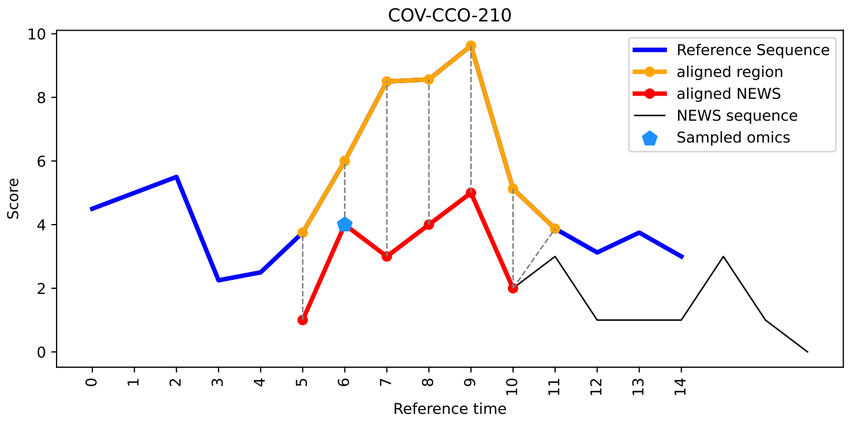

COV-CCO-190
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

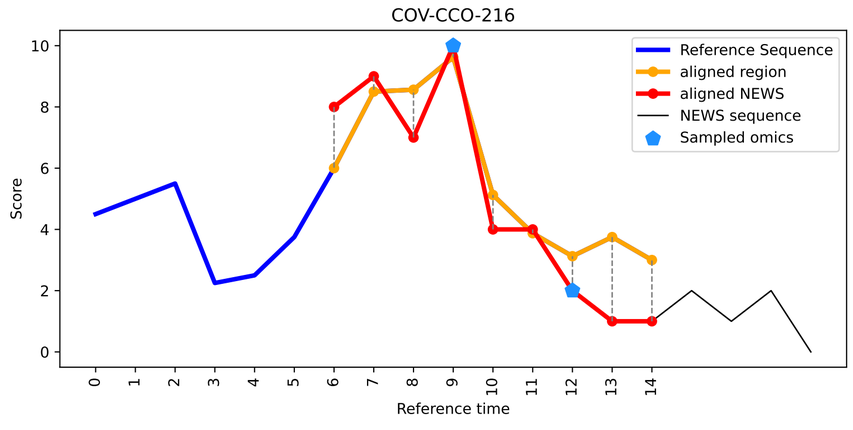

COV-CCO-191
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

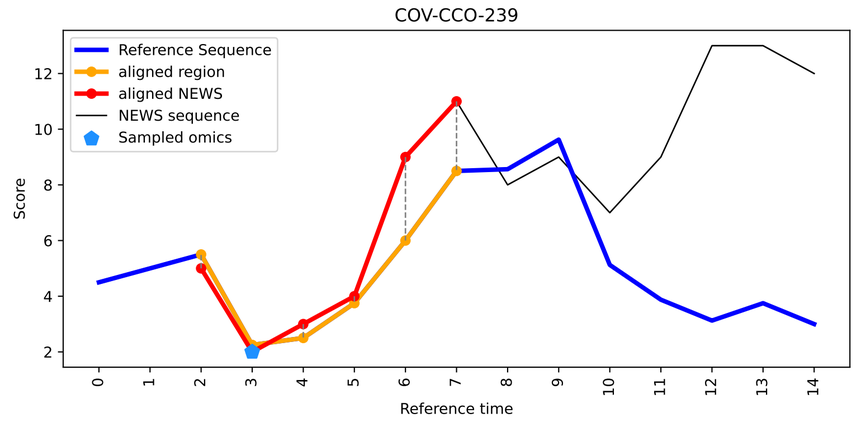

COV-CCO-202
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

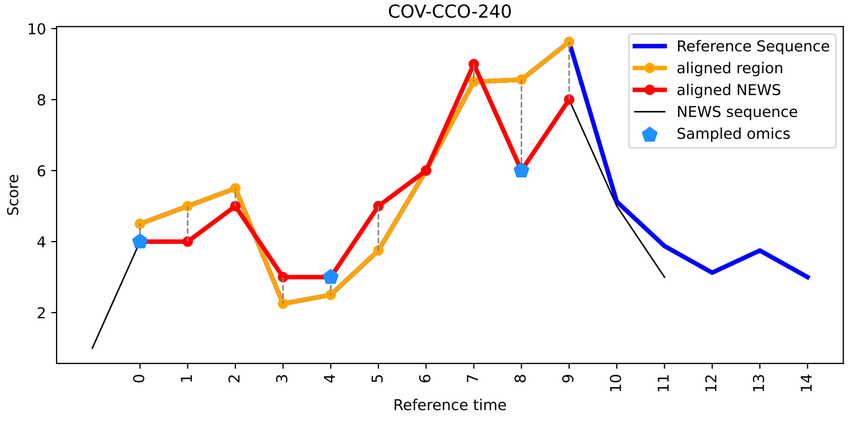

COV-CCO-204
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

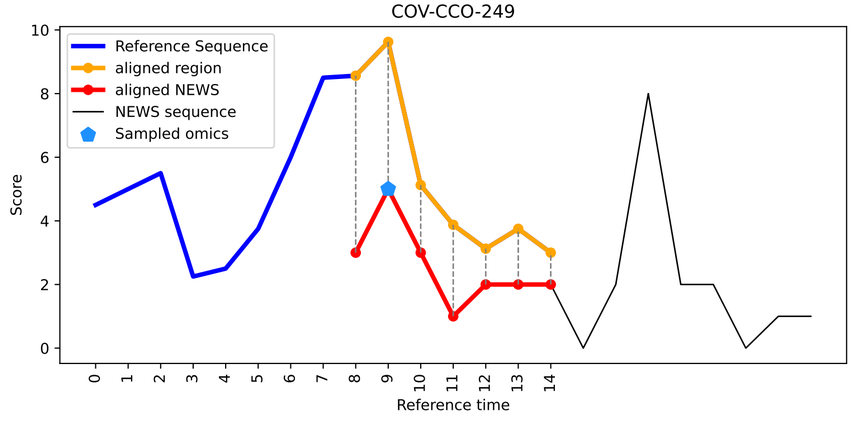

COV-CCO-207
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

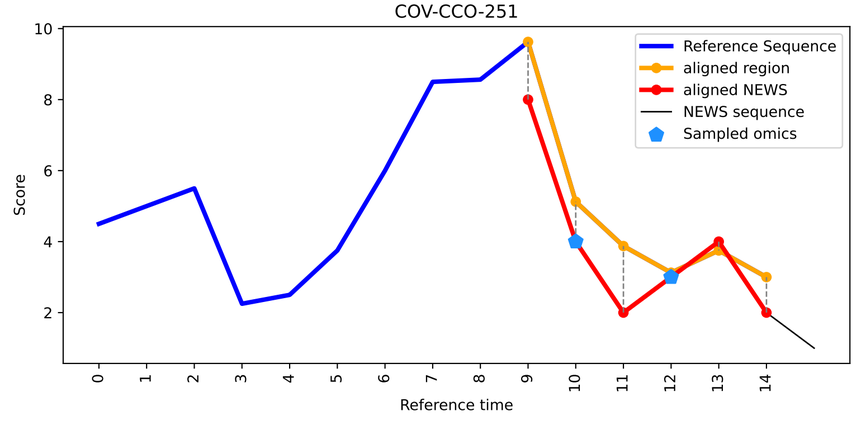

COV-CCO-210
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time


COV-CCO-216
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

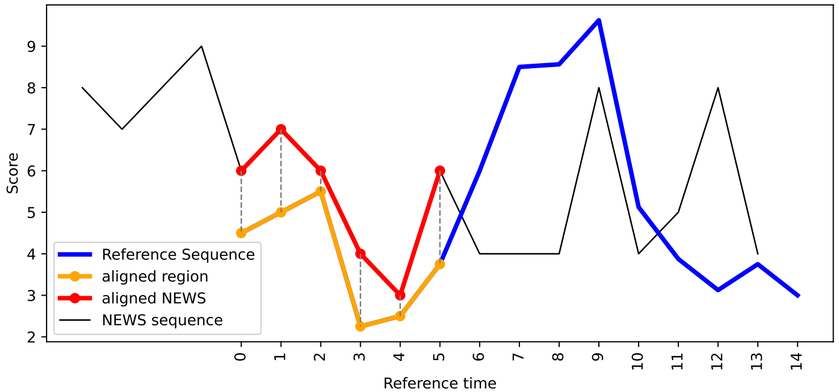

COV-CCO-239
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time


COV-CCO-240
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

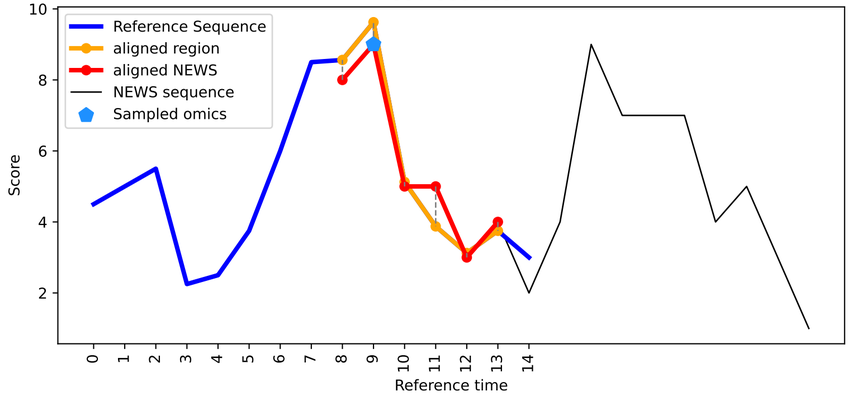

COV-CCO-249
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time


COV-CCO-251
Reference Sequence
aligned region
aligned NEWS
NEWS sequence
Sampled omics
Score
Reference time

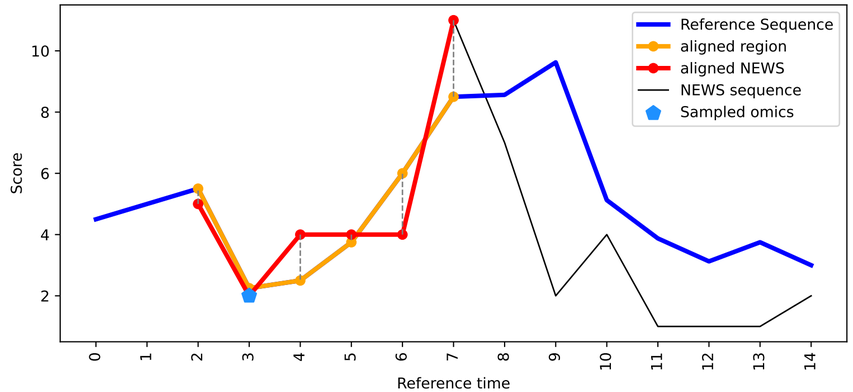
COV-CCO-263



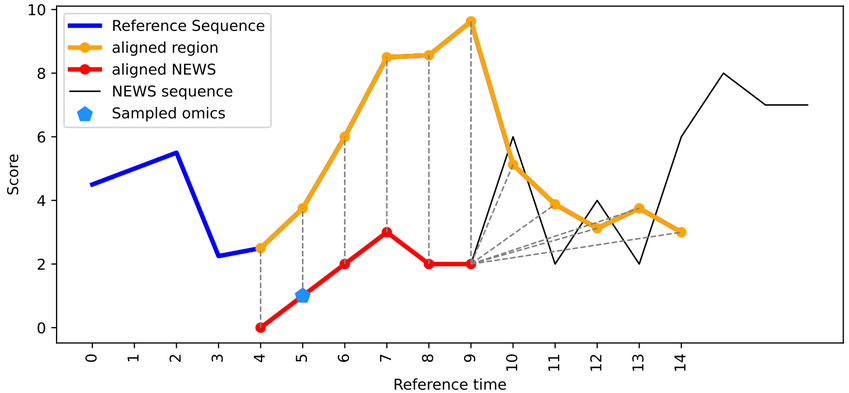
COV-CCO-265



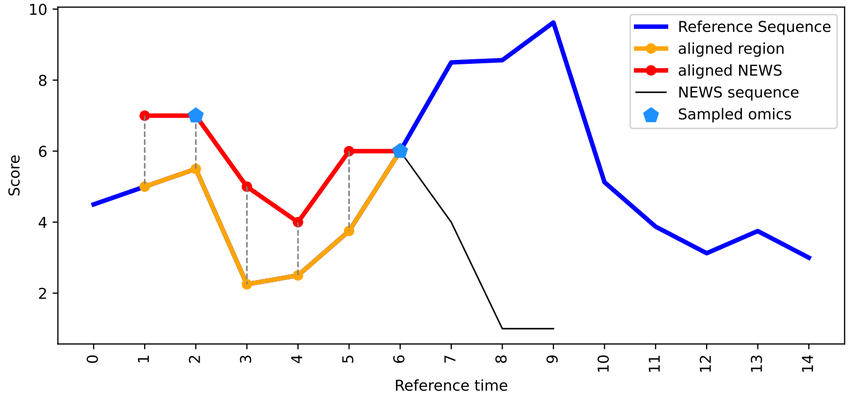
COV-CCO-272



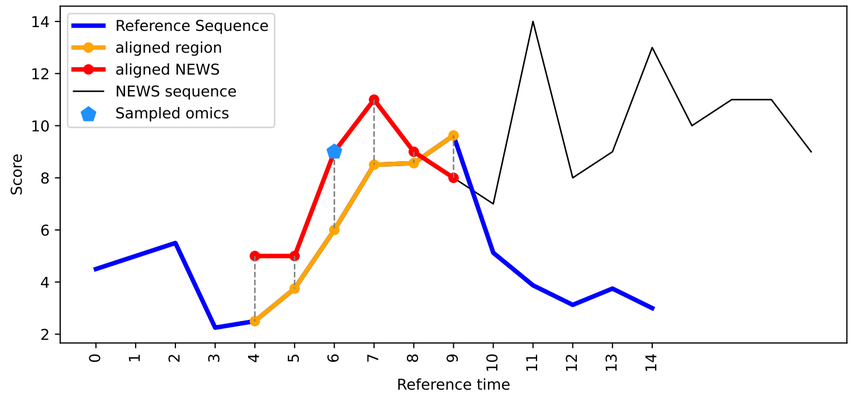
COV-CCO-296



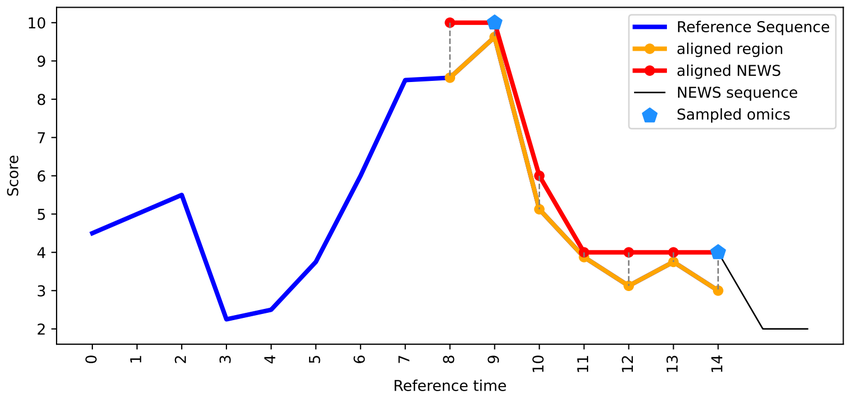
COV-CCO-301



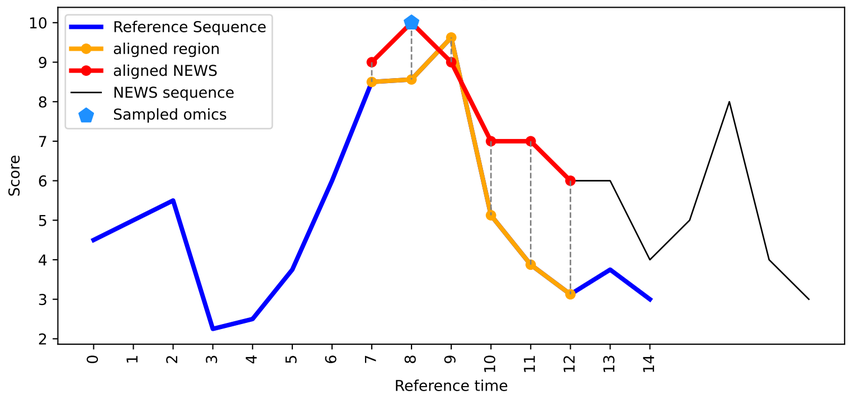
COV-CCO-304



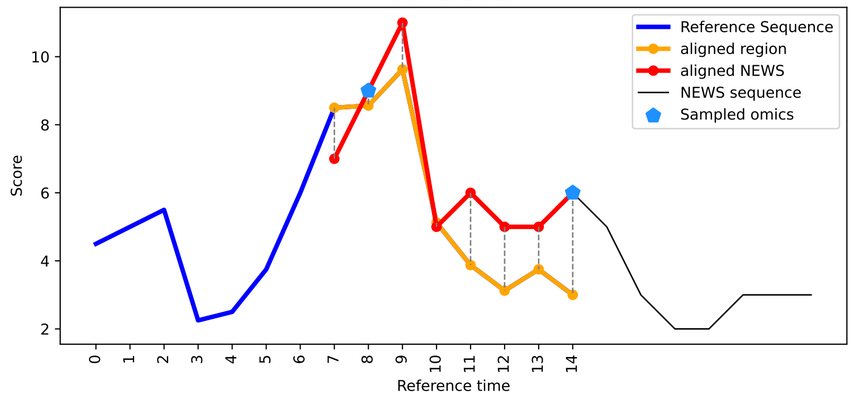
COV-CCO-307



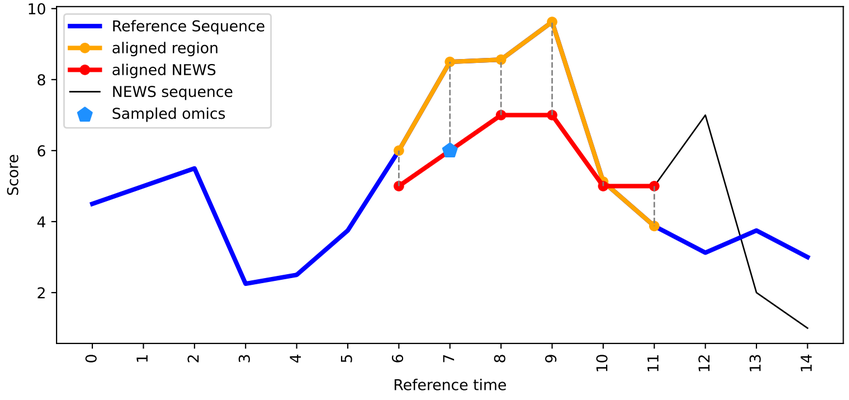
COV-CCO-317



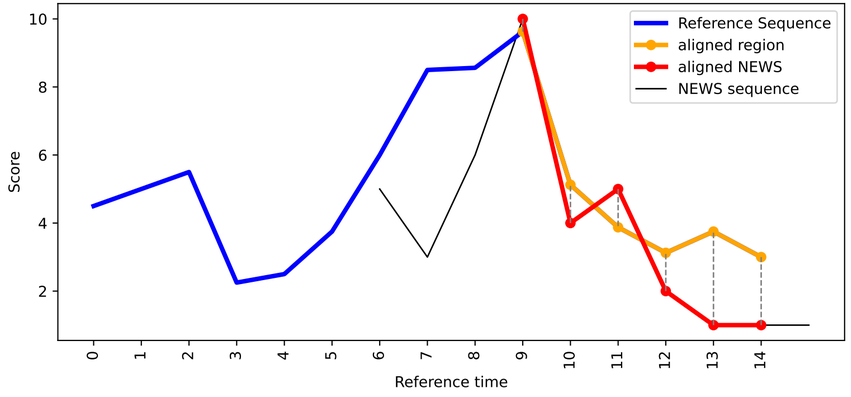
COV-CCO-320



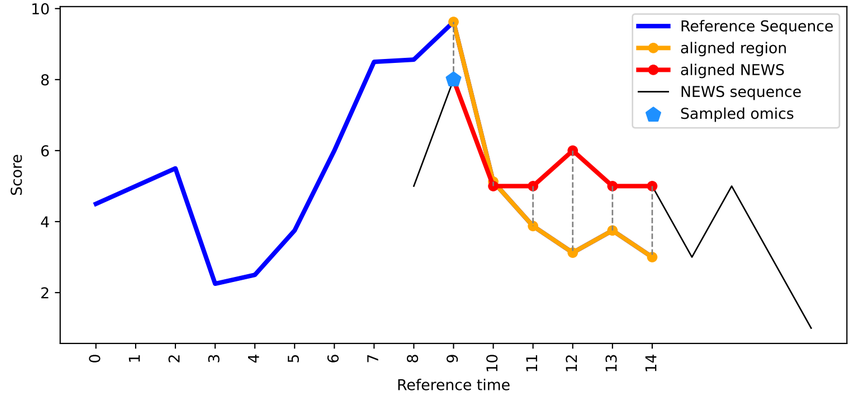
COV-CCO-328



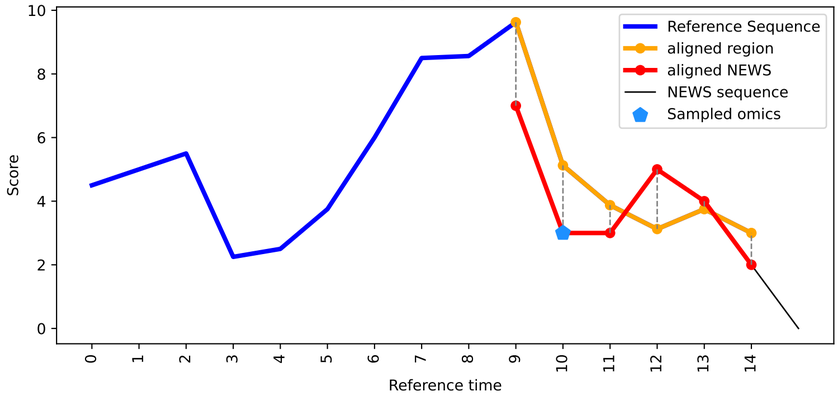
COV-CCO-330



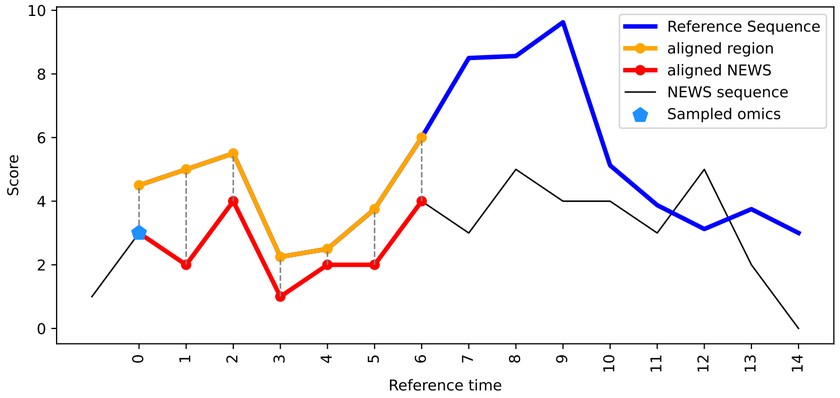
COV-CCO-331



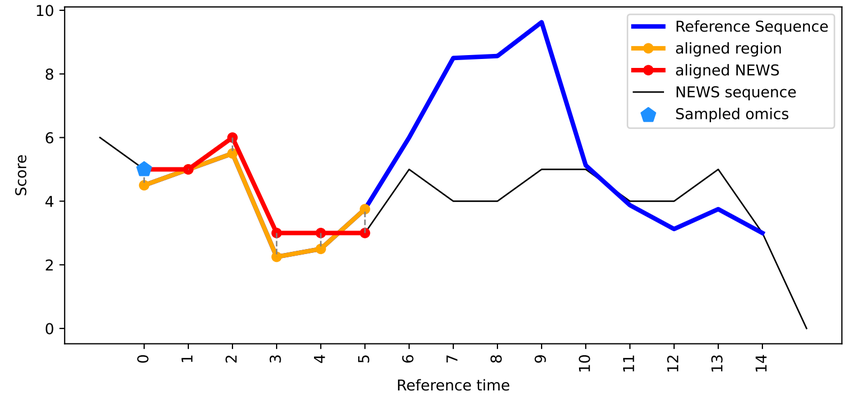
COV-CCO-334



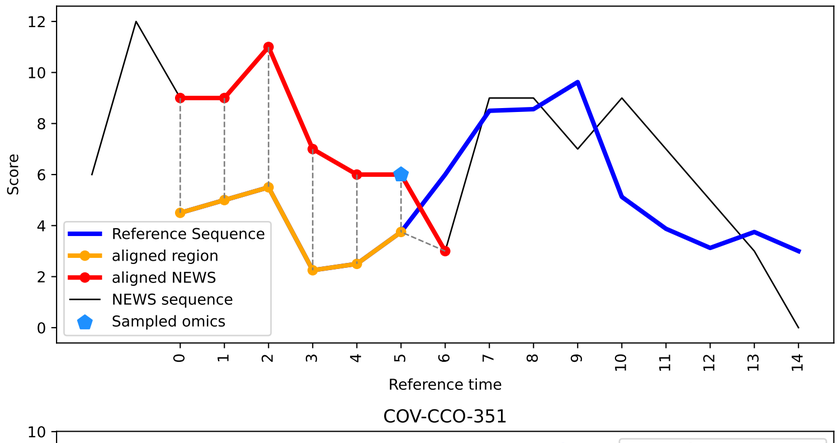
COV-CCO-337



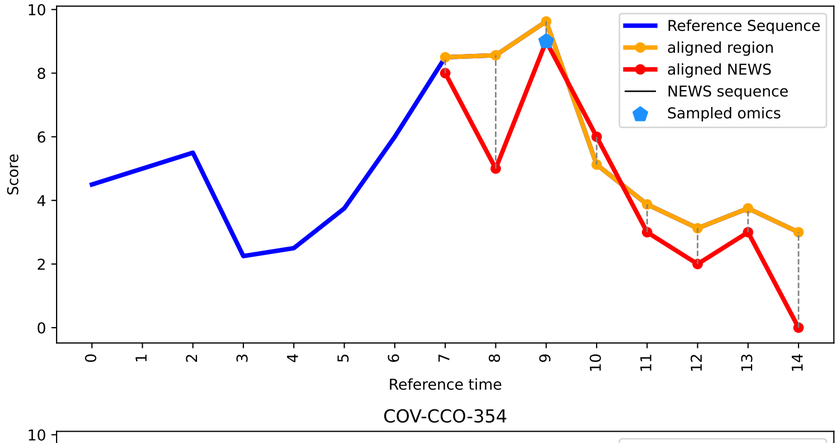
COV-CCO-341



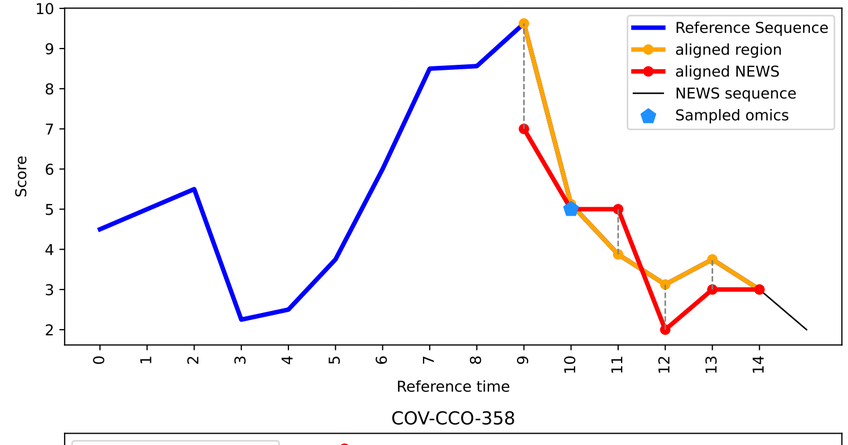
COV-CCO-342



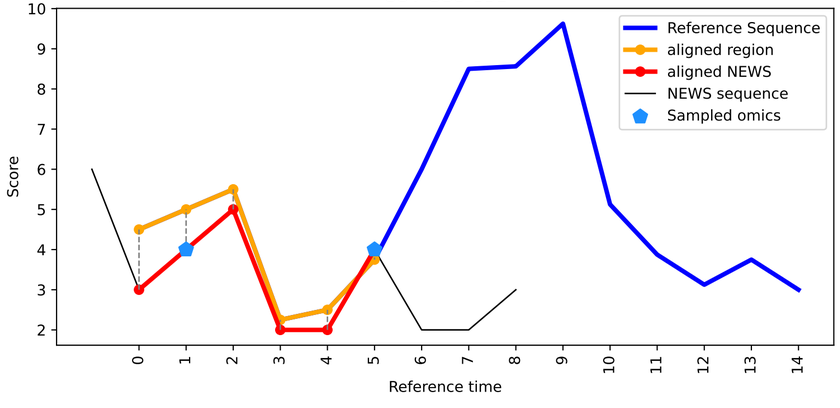
COV-CCO-348



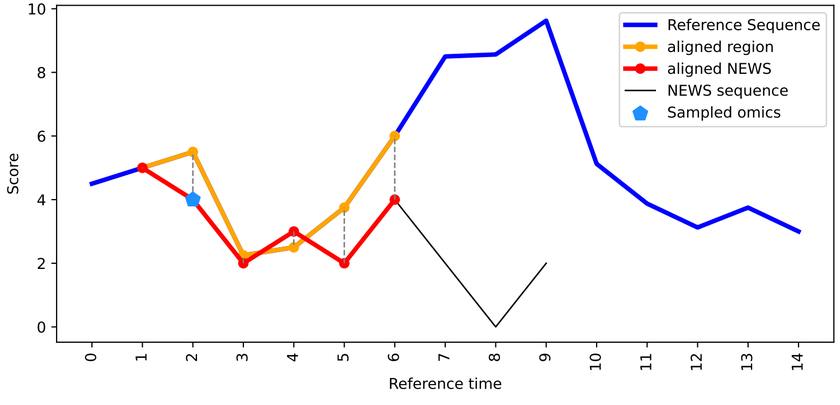
COV-CCO-349



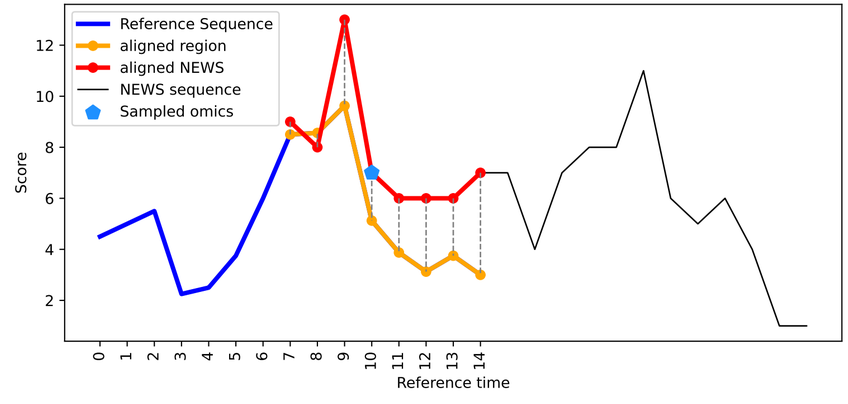
COV-CCO-351



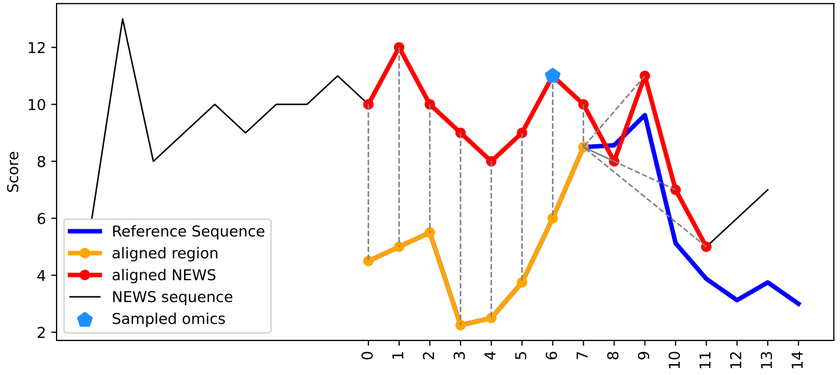
COV-CCO-354



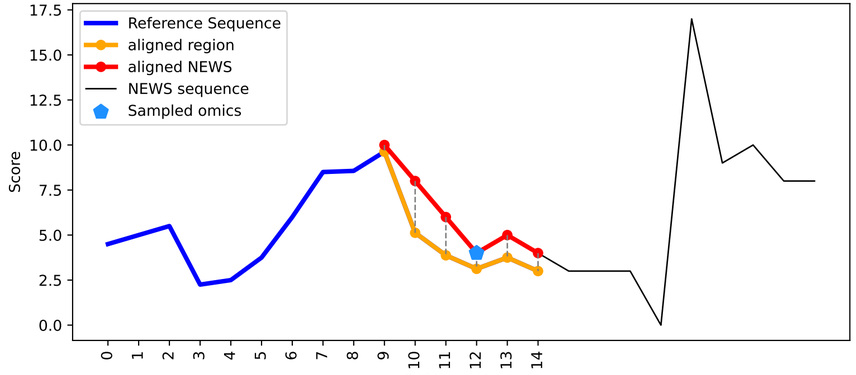
COV-CCO-358



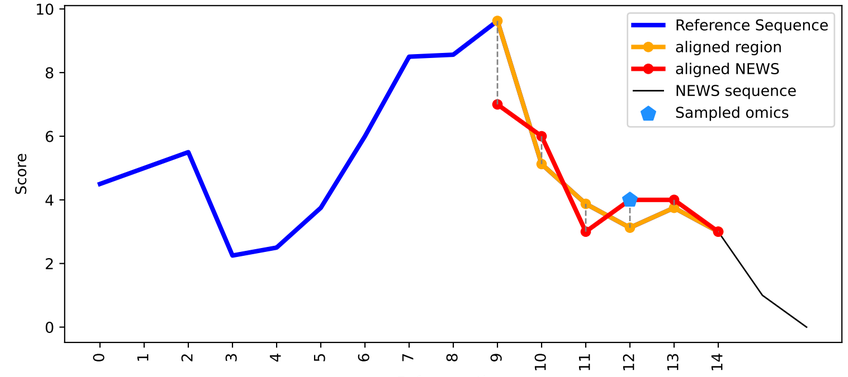
COV-CCO-361

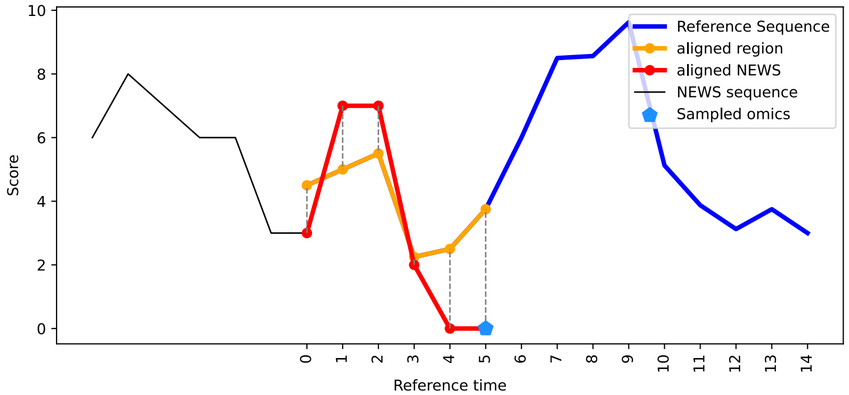


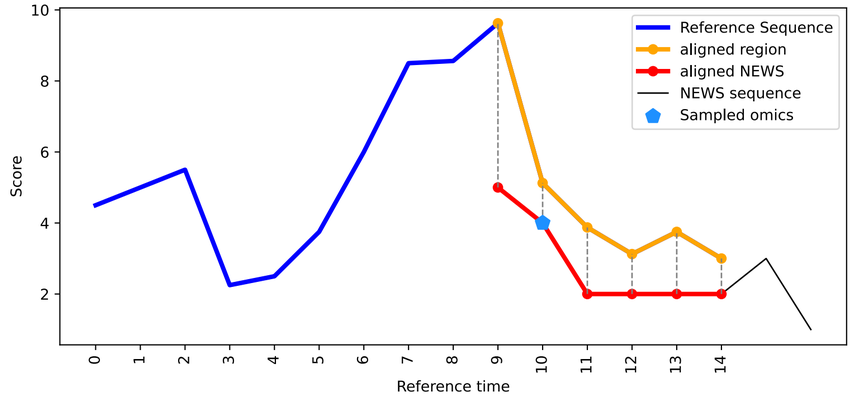
COV-CCO-365

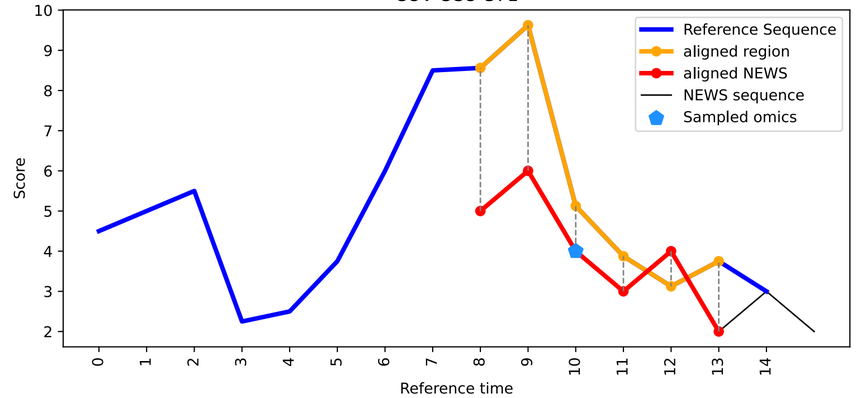


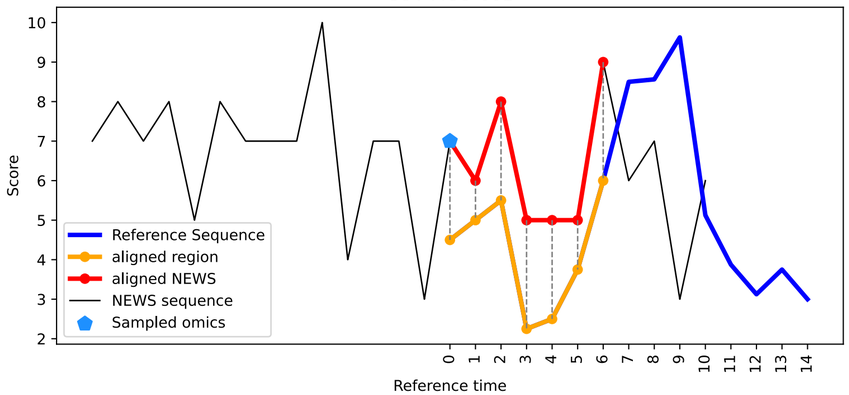
COV-CCO-366

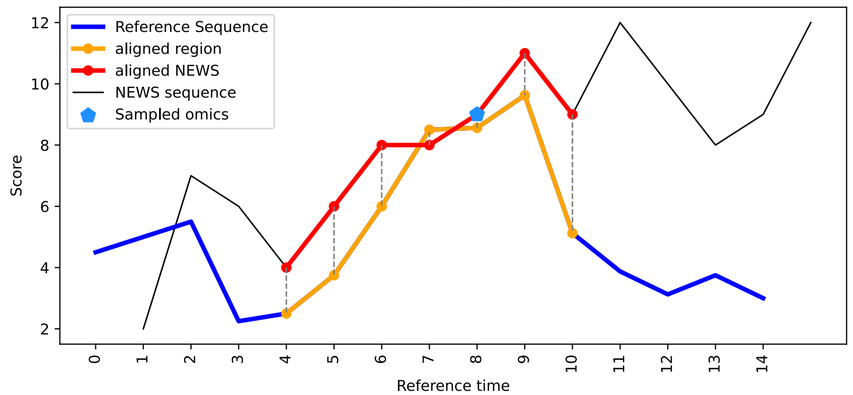


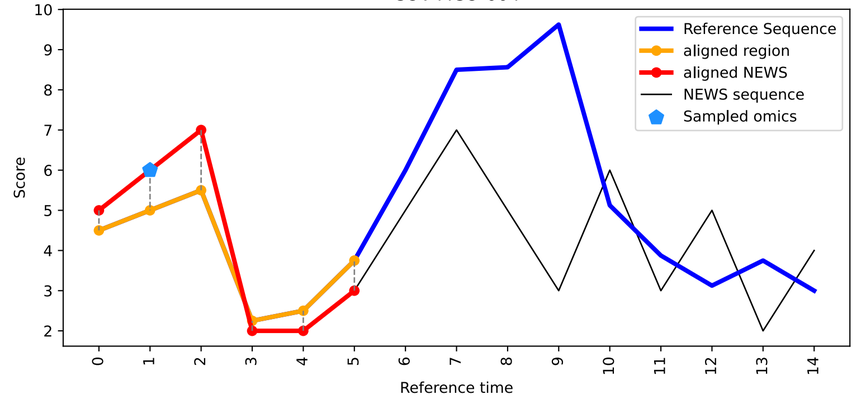


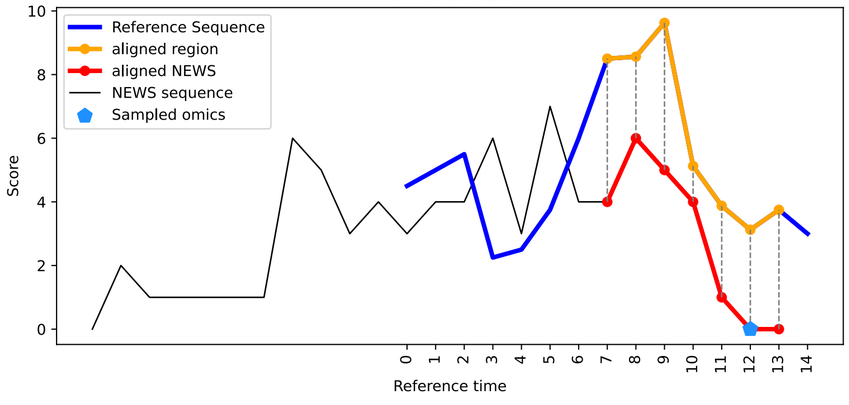


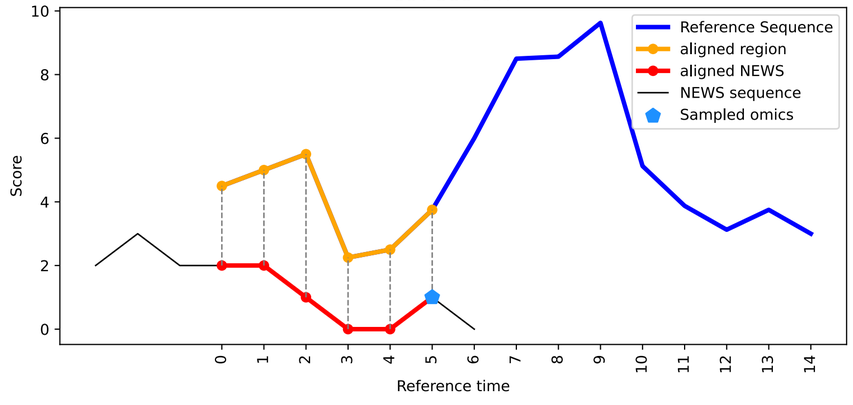


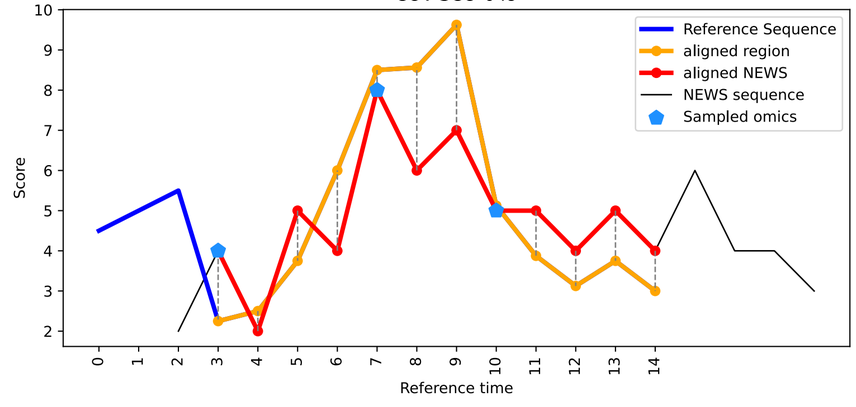


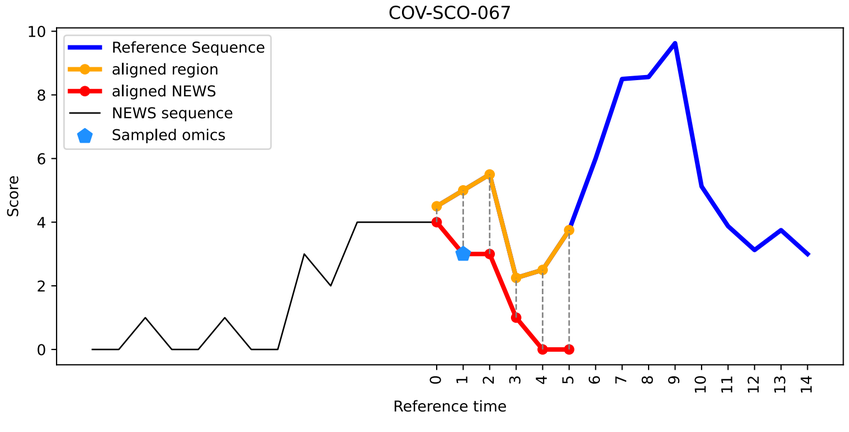












Supplementary Figure S2. This alignment results of NEWS time-series data from COVID-19 patients based on de novo synchronization using SynchDP. Each panel displays the NEWS trajectory of an individual patient, synchronized to a reference sequence constructed from a network-based approach. Also the aligned regions identified by SynchDP and the corresponding omics sampling points mapped to the synchronized timeline are shown.