

Visualizations of original ISMs

Zhengqiao Zhao^{1*}, Bahrad A. Sokhansanj^{1†}, Charvi Malhotra², Kitty Zheng², Gail L. Rosen¹⁺,

1 Ecological and Evolutionary Signal-Processing and Informatics Laboratory, Department of Electrical and Computer Engineering, College of Engineering, Drexel University, Philadelphia, PA, USA
2 College of Medicine, Drexel University, Philadelphia, PA, USA

* zz374@drexel.edu
 † bahrad@molhealtheng.com
 + glr26@drexel.edu

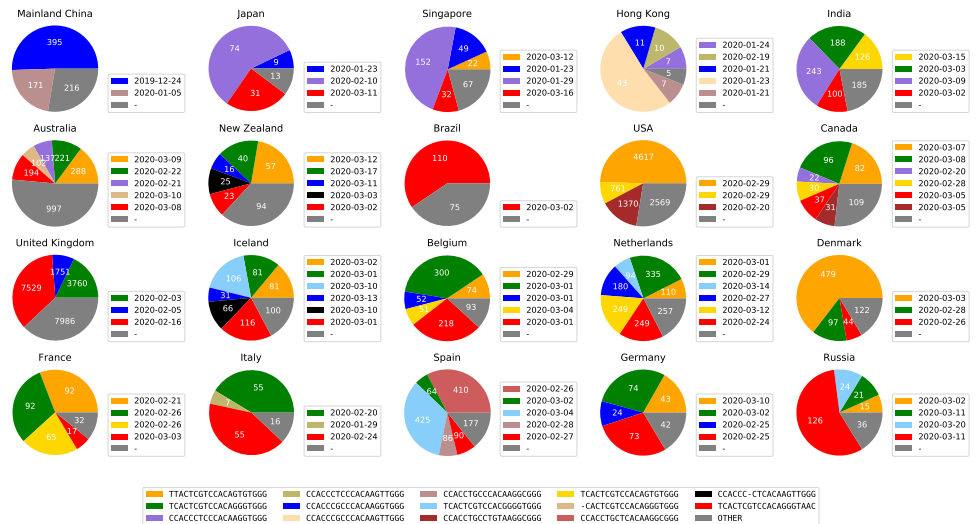


Figure A Major subtypes in countries/regions with the most sequences (indicating date subtype was first sequenced in that country/region). Subtypes with less than 5% abundance are plotted as “OTHER”. The raw counts for all ISMs in each country/region, as well as the date each ISM was first found in a sequence in that country/region

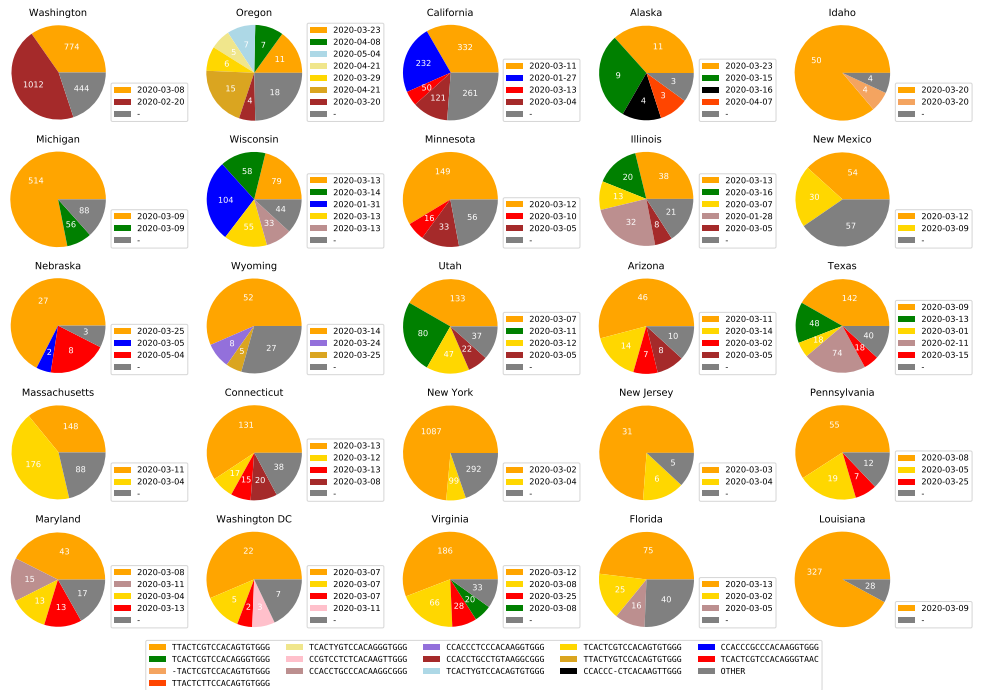


Figure B Viral subtype distribution in the United States, showing the 25 states with the most sequence submissions. Subtypes with less than 5% abundance are plotted as Other. The raw counts for all ISMs in each state, as well as the date each ISM was first found in a sequence in that state

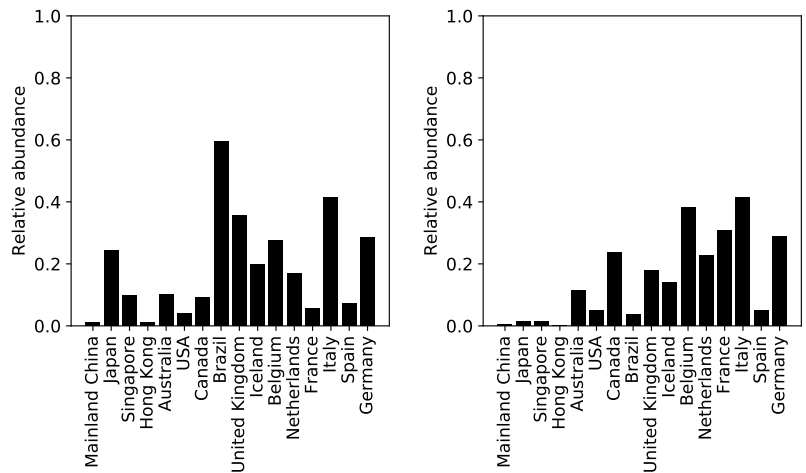


Figure C Relative abundance in other countries of the second-most abundant subtype in Italy, TCACTCGTCCACAGGGTAAAC (left) and most abundant subtype in Italy TCACTCGTCCACAGGGTGGG (right).

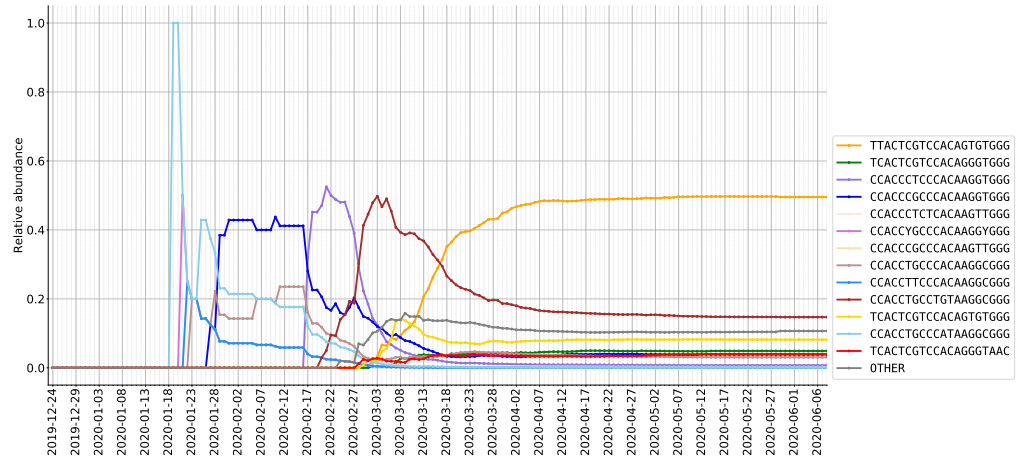


Figure D Relative abundance (%) of ISMs in DNA sequences from USA as sampled over time.

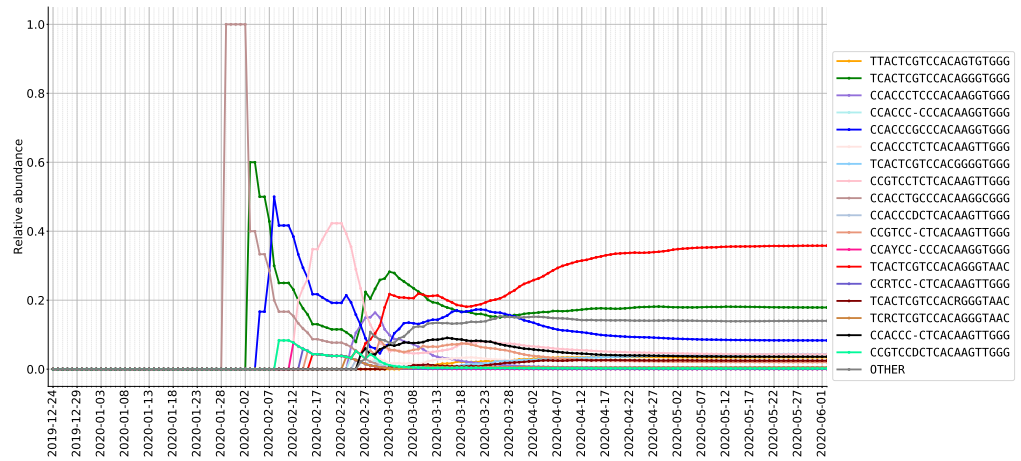


Figure E Relative abundance (%) of ISMs in DNA sequences from USA as sampled over time.

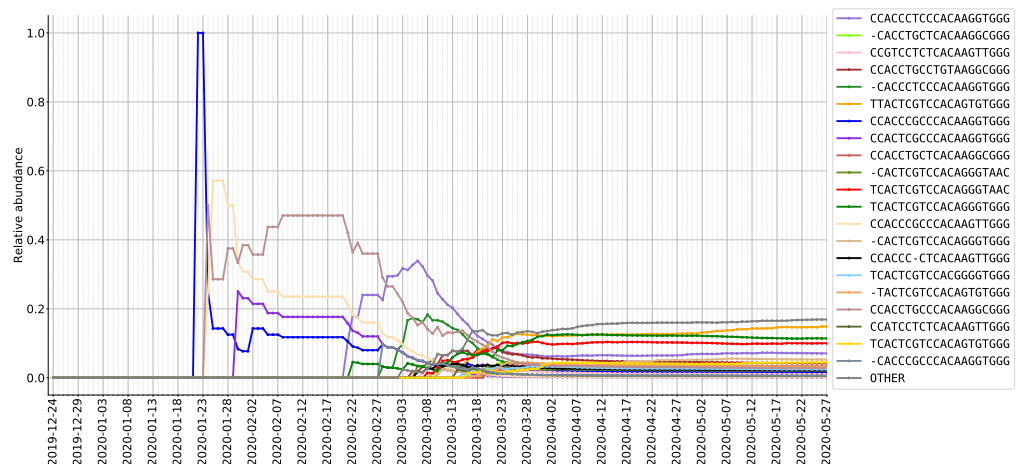


Figure F Relative abundance (%) of ISMs in DNA sequences from Australia as sampled over time.

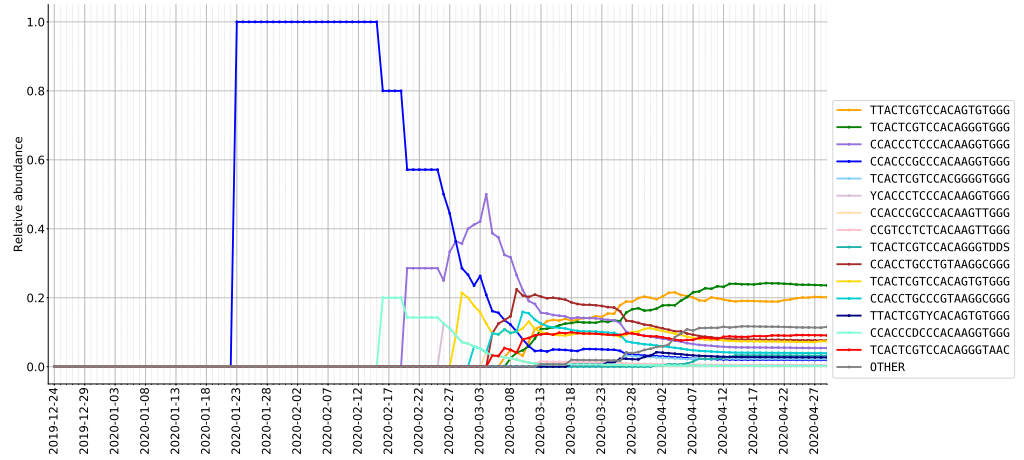


Figure G Relative abundance (%) of ISMs in DNA sequences from Canada as sampled over time.

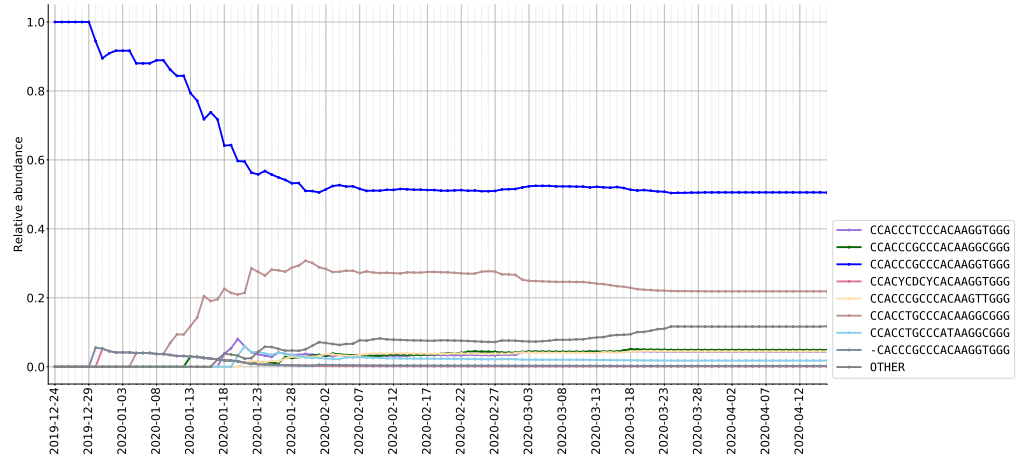


Figure H Relative abundance (%) of ISMs in DNA sequences from Mainland China as sampled over time.

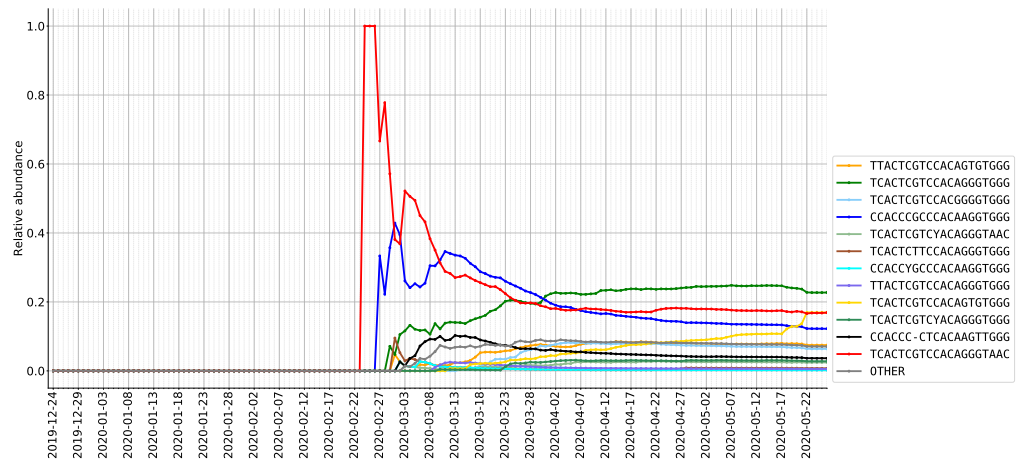


Figure I Relative abundance (%) of ISMs in DNA sequences from Netherlands as sampled over time.

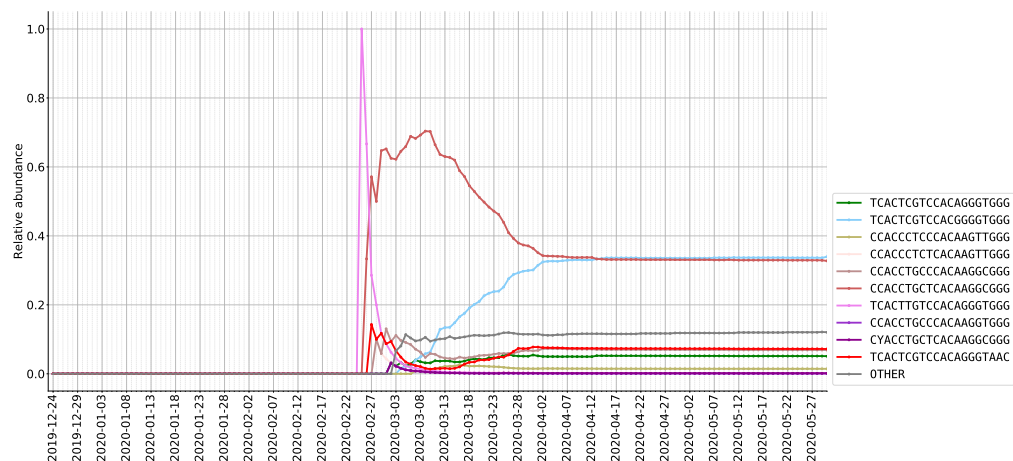


Figure G Relative abundance (%) of ISMs in DNA sequences from Spain as sampled over time.