

Codon 270

Gene-wide selection analysis using a branch-site method (BUSTED), WNV NS3

hyphy busted --srv No --alignment
data/WestNileVirus_NS3.fna -starting-points 5

Produces WestNileVirus_NS3.fna.BUSTED.json file

View in http://vision.hyphy.org/BUSTED

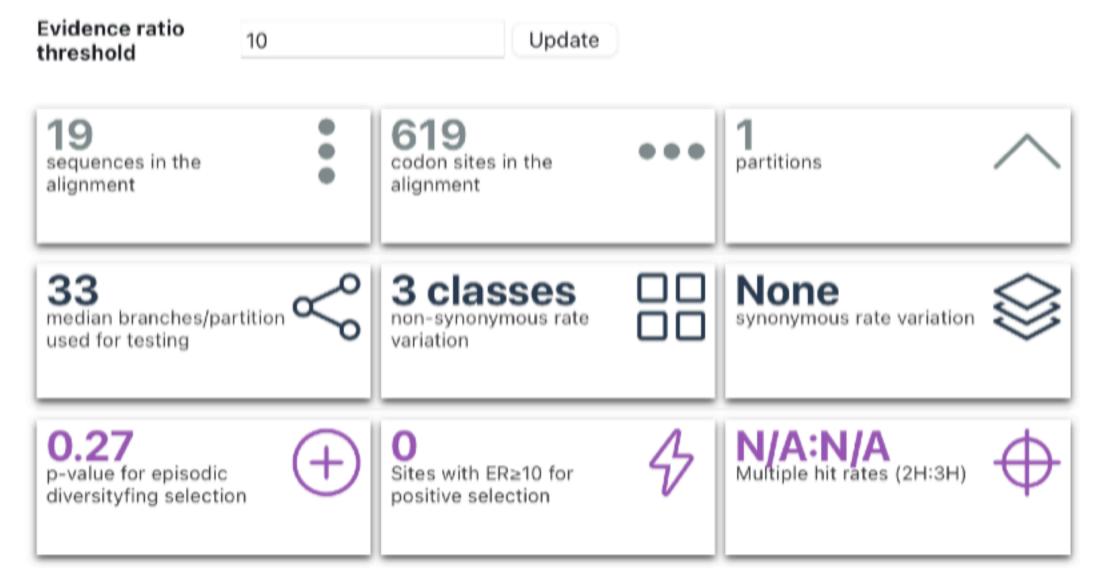
Based on the likelihood ratio test, there **is no** evidence of *episodic* diversifying selection in this dataset (p=0.2691).

BUSTED analysis (v4.0) was performed on the alignment from /Users/sergei/Dropbox/Talks/VEME-current/data/WestNileVirus_NS3.fas using HyPhy v2.5.40. This analysis **did not include** site-to-site synonymous rate variation.

Suggested citation: Gene-wide identification of episodic selection, Mol Biol Evol.

32(5):1365-71, Synonymous Site-to-Site Substitution Rate Variation Dramatically Inflates
False Positive Rates of Selection Analyses: Ignore at Your Own Peril, Mol Biol Evol.

37(8):2430-2439



Alignment-wide results

Model	Log (L)	AIC-c	Params.	Rate distribution	Rate plot	
Unconstrained model	-6396.17	12896.8	52	Tested ω 0.003895 (98.862%) 0.004316 (0.40762%) 1.859 (0.73075%) Mean = 0.01745 , CoV = 9.054	0.0	5 1.0
Constrained model	-6396.79	12896.0	51	Tested ω 0.003674 (0.10704%) 0.003690 (98.824%) 1.000 (1.0691%) Mean = 0.01434, CoV = 7.145	0.0 0.2	0.40.