

- Where in the tree is there evidence for selection?
- Can use exploratory Empirical Bayes Factor analysis to find "hotspots"

Not a "strict" statistical test!



Based on the likelihood ratio test, *episodic diversifying selection* has acted on **4** sites in this dataset ($p \le 0.1$).

MEME analysis (v3.0) was performed on the alignment from /Users/sergei/Dropbox/Talks/VEME-current/data/WestNileVirus_NS3.fas using HyPhy v2.5.40.

p-value threshold 0.1 Update

Suggested citation: Detecting Individual Sites Subject to Episodic Diversifying Selection.

PLoS Genet 8(7): e1002764.

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sequences in the alignment partitions



Table 1. Detailed site-by-site results from the MEME analysis

Part.	Codon	α	β-	p ⁻	β+	p ⁺	LRT	→p-value	# branches under selection	MEME LogL	FEL LogL	Variation p
1	249	0	0	0	2.708	1	7.883	0.009	0	-34.231	-34.232	1
1	557	0.234	0	0.965	140.484	0.035	5.517	0.029	1	-17.698	-14.167	0.029
1	521	0.922	0	0.961	103.466	0.039	3.6	0.078	1	-17.268	-14.308	0.052
1	87	1.972	0	0.948	29.804	0.052	3.455	0.084	1	-23.521	-16.735	0.001

