Codon	Partition	alpha	beta	LRT	Selection detected?	dN/dS with confidence intervals	.s
::	::	::	::	::	::	:	:
2	1	1.843	0.000	7.521	Neg. $p = 0.0061$	0.000(0.00- 0.09)	Ī
3	1	0.786	0.000	3.161	Neg. p = 0.0754	0.000(0.00- 0.16)	i i
4	1	2.174	0.000	10.742	Neg. $p = 0.0010$	0.000(0.00- 0.07)	j
j 7 j	1	1.105	0.000	7.537	Neg. p = 0.0060	0.000(0.00- 0.11)	j
8	1	0.422	0.000	3.173	Neg. p = 0.0749	0.000(0.00- 0.28)	j
9	1	1.353	0.000	8.638	Neg. p = 0.0033	0.000(0.00- 0.08)	j
10	1	1.353	0.000	8.369	Neg. p = 0.0038	0.000(0.00- 0.09)	j
•••							
247	1	1.353	0.000	8.088	Neg. p = 0.0045	0.000(0.00- 0.10)	
248	1	0.451	0.000	3.496	Neg. p = 0.0615	0.000(0.00- 0.28)	i
249	1	0.000	2.700	7.881	Pos. $p = 0.0050$	10000.000(7599.84-10000.00)	
250	1	0.220	0.000	2.797	Neg. $p = 0.0945$	0.000(0.00- 0.61)	i
388	1	0.220	0.000	2.797	Neg. p = 0.0945	0.000(0.00- 0.61)	İ

hyphy fel --alignment data/WestNileVirus_NS3.fna -ci Yes

Mapping substitutions with SLAC

- SLAC capable of detecting selection, is fast, but generally lacks power
- It provides a number of intuitive metrics for interpreting selection results
- SLAC recovers ancestral states and allows one to "map" evolutionary history onto a tree.

hyphy slac --alignment data/spike.fas --tree data/spike.tree --branches Internal