URL: https://www.datamonkey.org/busted/5f451a7a34c53e423ae67563

Branch-site Unrestricted Statistical Test for Episodic Diversification

results summary

INPUT DATA | 5f451a7a34c53e423ae67563 | 39 sequences | 570 sites

Export

BUSTED with synyonymous rate variation **found evidence** (LRT, p-value = 0.000 ≤ .05) of gene-wide episodic diversifying selection in the selected test branches of your phylogeny. Therefore, there is evidence that at least one site on at least one test branch has experienced diversifying selection.

See **here** for more information about this method.

Please cite **PMID 25701167** if you use this result in a publication, presentation, or other scientific work.

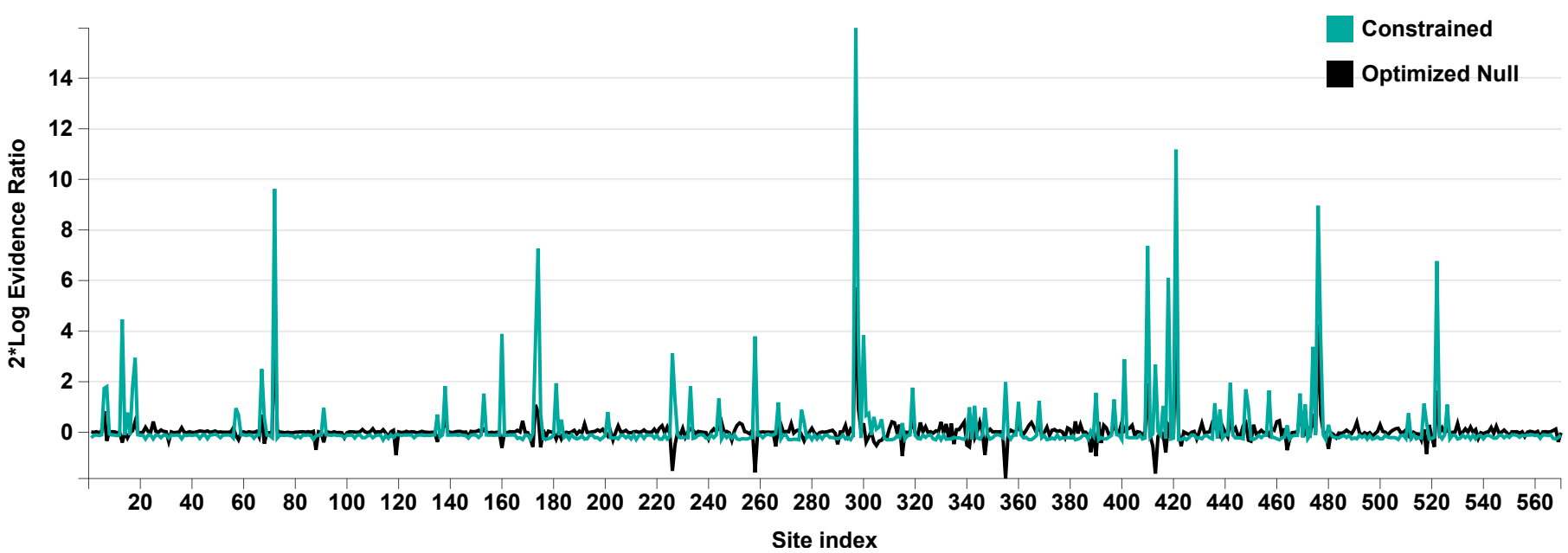
Model fits

Model	*log* L	#. params	AIC_c	CV(SRV)	Branch set	ω_1	ω_2	ω_3	
Unconstrained model	**-5510.3**	**99**	**11219.4**	**0.737**	**Test**	**0.03 (1.18%)**	**0.06 (98.12%)**	**18.81 (0.70%)**	
Constrained model	**-5520.0**	**98**	**11236.9**	**0.754**	**Test**	**0.00 (13.20%)**	**0.00 (75.35%)**	**1.00 (11.45%)**	

This table reports a statistical summary of the models fit to the data. Here, **Unconstrained model** refers to the BUSTED alternative model for selection, and **Constrained model** refers to the BUSTED null model for selection.

Model Test Statistics Per Site

Export Chart to PNG Export Chart to SVG



CONSTRAINED TEST STATISTIC

-Infinity

OPTIMIZED NULL TEST STATISTIC

-Infinity

Showing entries 1 through 20 out of 570.

« ‹ › »

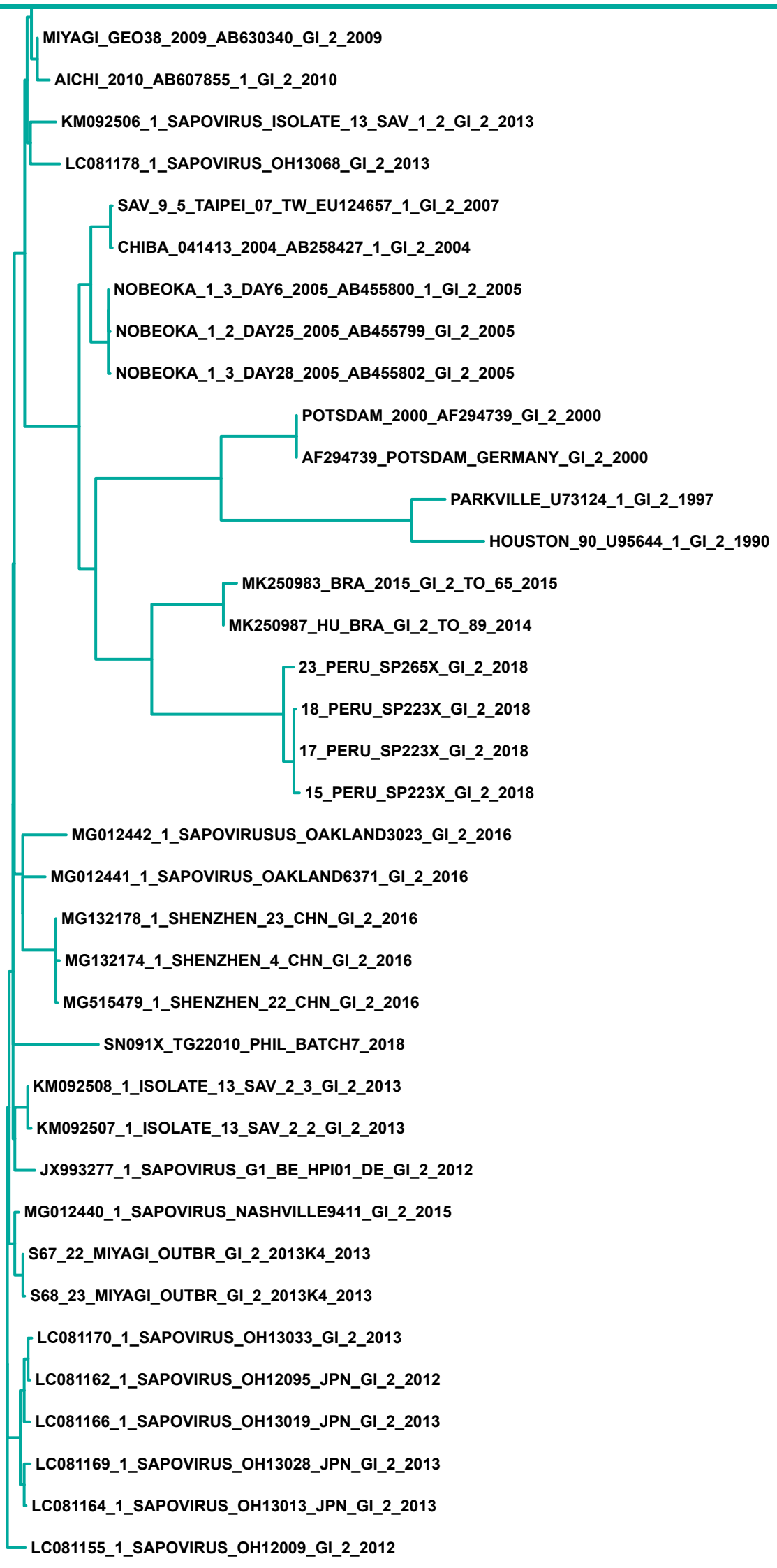
Export Table to CSV

Site index	Unconstrained	Constrained	Optimized Null	Constrained	Optimized Null

2	-4.75	-4.69	-4.75	-0.12	0
3	-4.98	-4.93	-4.99	-0.1	0.02
4	-4.59	-4.52	-4.58	-0.13	-0.02
5	-4.98	-4.93	-4.99	-0.1	0.02
6	-16.58	-17.44	-16.99	1.74	0.83
7	-23.05	-23.95	-22.88	1.8	-0.34
8	-5.45	-5.41	-5.45	-0.07	0.01
9	-5.11	-5.06	-5.12	-0.11	0.02
10	-4.83	-4.77	-4.84	-0.11	0.02
11	-4.59	-4.52	-4.58	-0.13	-0.02
12	-5.03	-4.98	-5.03	-0.11	-0.01
13	-34.27	-36.5	-34.07	4.46	-0.41
14	-4.72	-4.66	-4.72	-0.11	0
15	-19.03	-19.42	-18.92	0.78	-0.22
16	-4.78	-4.72	-4.77	-0.12	-0.02
17	-14.79	-15.7	-14.82	1.82	0.06
18	-21.92	-23.39	-22.13	2.94	0.42
19	-5.17	-5.12	-5.17	-0.1	0
20	-4.32	-4.26	-4.31	-0.12	-0.02

Fitted tree

Options Export



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Steven Weaver
@stvnwvr

I've started working on a comprehensive benchmarking notebook for HyPhy and started with commonly used methods. If there are any specific benchmarks you'd like to see, let me know and I'll include if reasonable.
observablehq.com/@stevenweaver/…

HyPhy Benchmarks and Profiling
An Observable notebook by Steven Wea…
observablehq.com

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