Methods and Tools ▼

Job Queue

Usage statistics

API ▼

<u>Citations</u> <u>Help</u>

Classic

Datamonkey

A Collection of State of the Art Statistical Models and Bioinformatics Tools

What evolutionary process would you like to detect?

Selection		Recombination
Would you like to detect selection across branches, individual sites, or an entire gene?		
Branches	Sites	Gene

Are you concerned about biases introduced by multinucleotide substitutions and variation in synonymous substitution rates?

No Yes

Datamonkey recommends that you use...

BUSTED

BUSTED (**B**ranch-site **U**nrestricted **S**tatistical **T**est for **E**pisodic **D**iversification) provides a gene-wide (*not site-specific*) test for positive selection by asking whether a gene has experienced positive selection at at least one site on at least one branch.

For more information, please see the <u>summary on hyphy.org</u> or see <u>Murrell, B et al. "Gene-wide identification of episodic selection." Mol. Biol. Evol. 32, 1365–1371 (2015).</u>

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https://datamonkey.org