Datamonkey

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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

Do you want to detect episodic or pervasive selection?

Episodic	Pervasive

Datamonkey recommends that you use...

MEME

MEME (**M**ixed **E**ffects **M**odel of **E**volution) employs a mixed-effects maximum likelihood approach to test the hypothesis that individual sites have been subject to episodic positive or diversifying selection. In other words, MEME aims to detect sites evolving under positive selection under a proportion of branches.

For more information, please see the summary on hyphy.org or see Murrell, B et al. "Detecting individual sites subject to episodic diversifying selection." PLoS Genetics 8, e1002764 (2012).