

Datamonkey

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

What evolutionary process would you like to detect?

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

Branches	Sites	Gene
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Do you want to detect episodic or pervasive selection?

Episodic	Pervasive
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Is your dataset small (less than this many sequences/sizes) or large?

Small	Large
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Do you want to contrast selection pressures between two or more groups of branches?

No	Yes
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Datamonkey recommends that you use...

FEL

FEL (**F**ixed **E**ffects**L**ikelihood) uses a maximum-likelihood (ML) approach to infer nonsynonymous (dN) and synonymous (dS) substitution rates on a per-site basis for a given coding alignment and corresponding phylogeny. This method assumes that the selection pressure for each site is constant along the entire phylogeny.

For more information, please see the [summary on hyphy.org](#) or see [Kosakovsky Pond, SL and Frost, SDW. "Not So Different After All: A Comparison of Methods for Detecting Amino Acid Sites Under Selection." Mol. Biol. Evol. 22, 1208--1222 \(2005\).](#)



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