

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 use a Bayesian (recommended) or counting based approach?

Bayesian	Counting
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Datamonkey recommends that you use...

FUBAR

FUBAR (**F**ast, **U**nconstrained**B**ayesian **A**pp**R**oximation) uses a Bayesian 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 [Murrell, B et al. "FUBAR: A Fast, Unconstrained Bayesian AppRoximation for inferring selection." Mol. Biol. Evol. 30, 1196–1205 \(2013\).](#)



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