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Hypothesis Testing using Phylogenies

An open-source software package

for comparative sequence analysis using stochastic evolutionary models

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- Evolutionary analyses of multiple sequence alignments
- Specific focus on coding sequence evolution

Datamonkey

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

What evolutionary process would you like to detect?

election

Recombination

- dN/dS analyses on coding sequence MSAs are ubiquitous (1000s of papers each year): very useful biological insights.
- A very large fraction of analyzed MSAs contain "local" alignment errors.
- Sensitive statisitcal methods often interpret these errors as evolutionary signal.

- The problem is only exacerbated in larger MSAs with more divergent species
- Can we turn the sensitivity of these methods to our advantage to find and "filter" the errors.
- Based on very simple intitution and extensions of "tried-and-true" methods.