test

name

March 1, 2024

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Jäger & Wahle (2021) applied a slightly modification by enabling dual mutations (i.e., two typological traits can change at the same time). It is unclear to me how they construct the equal-rate model in the Q matrix. This is probably the reason why they did not compare with ER model, since it is unclear how they could do this. Pagel (1994) test the correlated evolution by comparing the rate differences by conditioning the change of one variable while holding constant the other. But if both characters are changed, you cannot find a condition to compare. Of course, Jäger & Wahle (2021) took a different approach by applying a linear regression on the stationary probabilities. This may raise another question, if two traits are not correlated (i.e., the change of one will cause the change of another), though both favor a HI ordering. This will give a positive regression as well?

References

Jäger, Gerhard & Johannes Wahle. 2021. Phylogenetic Typology. *Frontiers in Psychology* 12. doi:10.3389/fpsyg.2021.682132.

Pagel, Mark. 1994. Detecting Correlated Evolution on Phylogenies: A General Method for the Comparative Analysis of Discrete Characters. *Proceedings of the Royal Society of London. Series B: Biological Sciences* 255(1342). The Royal Society London. 37–45.