

Topologies alternative to the ML tree in Fig. 2 (see the printed article) and results of Shimodaira-Hasegawa non-parametric likelihood tests.

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Vences, M., Kosuch, J., Boistel, R., Haddad, C.F.B., La Marca, E., Lötters, S., Veith, M. (2003):
Convergent evolution of aposematic coloration in Neotropical poison frogs: a molecular phylogenetic perspective.

Org. Divers. Evol. 3(3): 215-226.

Topologies alternative to the ML tree in Fig. 2 (see the printed article) which minimize the amount of multiple evolution of aposematic coloration, and results (log likelihoods, differences of log likelihoods from that of best tree, and significance of these differences) of Shimodaira-Hasegawa non-parametric likelihood tests. Variants of the 'classic' hypotheses (monophyly of aposematic taxa) are named "Classic 1-5". Other tree variants include different placements of selected taxa.

Tree name	Tree modification	-lnL	Diff -lnL	P
ML	ML (best tree)	7619.47557	(best)	---
Classic 1	Classic 1	7701.02872	81.55315	0.00*
Classic 2	Classic 2	7695.99798	76.52241	0.00*
Classic 3	Classic 3	7693.24696	73.77139	0.00*
Classic 4	Classic 4	7693.24696	73.77139	0.00*
Classic 5	Classic 5	7692.36653	72.89096	0.00*
Allobates 1	different pos. of <i>A. femoralis</i>	7648.43745	28.96188	0.05
Allobates 2	different pos. of <i>A. femoralis</i>	7664.78572	45.31015	0.00*
Allobates 3	different pos. of <i>A. femoralis</i>	7664.77718	45.30161	0.00*
Allobates 4	different pos. of <i>A. femoralis</i>	7670.83713	51.36156	0.00*
Allobates 5	different pos. of <i>A. femoralis</i>	7670.83713	51.36156	0.00*
Allobates 6	different pos. of <i>A. femoralis</i>	7672.14344	52.66787	0.00*
azurei 1	different pos. of <i>Cr. azureiventris</i>	7678.98487	59.50930	0.00*
azurei 2	different pos. of <i>Cr. azureiventris</i>	7639.44420	19.96863	0.20
azurei 3	different pos. of <i>Cr. azureiventris</i>	7639.34494	19.86937	0.21
bocagei 1	different pos. of <i>Col. bocagei</i>	7620.15124	0.67567	0.97
bocagei 2	different pos. of <i>Col. bocagei</i>	7621.94722	2.47165	0.91
bocagei 3	different pos. of <i>Col. bocagei</i>	7637.50477	18.02921	0.27
bocagei 4	different pos. of <i>Col. bocagei</i>	7631.93163	12.45607	0.49
bocagei 5	different pos. of <i>Col. bocagei</i>	7631.92884	12.45328	0.49
trivitt 1	different pos. of <i>E. trivittatus</i>	7640.66294	21.18738	0.15
trivitt 2	different pos. of <i>E. trivittatus</i>	7640.19000	20.71443	0.18
pratti 1	different pos. of <i>Col. pratti</i>	7634.94079	15.46522	0.28
pratti 2	different pos. of <i>Col. pratti</i>	7641.52858	22.05301	0.11
pratti 3	different pos. of <i>Col. pratti</i>	7657.63649	38.16092	0.00*
pratti 4	different pos. of <i>Col. pratti</i>	7639.46960	19.99404	0.19
pratti 5	different pos. of <i>Col. pratti</i>	7640.36424	20.88867	0.17

* P < 0.05