

Nickrent et al.—American Journal of Botany 2019— Appendix S9

The lowest marginal log likelihoods (and thus Bayes factors) calculated across all runs and tree samples for each state at the three selected nodes, A, B, and C.

allgoodroot1.Loranth1.Fossil0	-59.04541				Across trees				Across Runs
allgoodroot1.Loranth1.Fossil1	-56.648324				Mean + SD				Mean + SD
Bayes Factor	-4.794172		1R1	4.32459	4.281778		1R1	4.32459	4.36717533
allgoodroot1.Loranth2.Fossil0	-59.076933		2R1	4.289396	0.04708549		1R2	4.33959	0.06123064
allgoodroot1.Loranth2.Fossil1	-56.713695		3R1	4.231348			1R3	4.437346	
Bayes Factor	-4.726476								
allgoodroot1.Loranth3.Fossil0	-59.039713		1R2	4.33959	4.193782		2R1	4.289396	4.291622
allgoodroot1.Loranth3.Fossil1	-56.628845		2R2	4.134734	0.12703137		2R2	4.134734	0.15801276
Bayes Factor	-4.821736		3R2	4.107022			2R3	4.450736	
allgoodroot1.Root1.Fossil0	-56.724001								
allgoodroot1.Root1.Fossil1	-58.886296		1R3	4.437346	4.28411267		3R1	4.231348	4.10087533
Bayes Factor	4.32459		2R3	4.450736	0.27708489		3R2	4.107022	0.13365205
allgoodroot1.Root2.Fossil0	-56.734534		3R3	3.964256			3R3	3.964256	
allgoodroot1.Root2.Fossil1	-58.904329								
Bayes Factor	4.33959		Lowest Bayes Factor for Santalales Root 0 versus 1 = 3.964256						
allgoodroot1.Root3.Fossil0	-56.711475		Positive evidence for 0 at root node						
allgoodroot1.Root3.Fossil1	-58.930148								
Bayes Factor	4.437346		1L1	-4.794172	-4.6708913		1L1	-4.794172	-4.7807947
allgoodroot1.Opil+Sant+Visc1.Fossil0	-56.727532		2L1	-4.53829	0.12819538		1L2	-4.726476	0.04901869
allgoodroot1.Opil+Sant+Visc1.Fossil1	-58.934456		3L1	-4.680212			1L3	-4.821736	
Bayes Factor	4.413848								
allgoodroot1.Opil+Sant+Visc2.Fossil0	-56.734457		1L2	-4.726476	-4.7661093		2L1	-4.53829	-4.674472
allgoodroot1.Opil+Sant+Visc2.Fossil1	-58.780114		2L2	-4.802806	0.03824964		2L2	-4.802806	0.13243252
Bayes Factor	4.091314		3L2	-4.769046			2L3	-4.68232	
allgoodroot1.Opil+Sant+Visc3.Fossil0	-56.695788								
allgoodroot1.Opil+Sant+Visc3.Fossil1	-58.883644		1L3	-4.821736	-4.7459133		3L1	-4.680212	-4.7276473
Bayes Factor	4.375712		2L3	-4.68232	0.07050796		3L2	-4.769046	0.04472361
allgoodroot2.Loranth1.Fossil0	-58.970919		3L3	-4.733684			3L3	-4.733684	
allgoodroot2.Loranth1.Fossil1	-56.701774								
Bayes Factor	-4.53829		Lowest Bayes Factor for Lorantheaceae 0 vs. 1 = -4.53829						
allgoodroot2.Loranth2.Fossil0	-59.017631		Positive evidence for 1 in Lorantheaceae MRCA						
allgoodroot2.Loranth2.Fossil1	-56.616228								
Bayes Factor	-4.802806		1S1	4.413848	4.22281		1S1	4.413848	4.29362467
allgoodroot2.Loranth3.Fossil0	-58.988708		2S1	4.070614	0.17488259		1S2	4.091314	0.17624072

allgoodroot2.Loranth3.Fossil1	-56.647548		351	4.183968			153	4.375712	
Bayes Factor	-4.68232								
allgoodroot2.Root1.Fossil0	-56.730838		152	4.091314	4.184742		251	4.070614	4.181674
allgoodroot2.Root1.Fossil1	-58.875536		252	4.33949	0.13497384		252	4.33949	0.14040359
Bayes Factor	4.289396		352	4.123422			253	4.134918	
allgoodroot2.Root2.Fossil0	-56.715287								
allgoodroot2.Root2.Fossil1	-58.782654		153	4.375712	4.24827267		351	4.183968	4.180526
Bayes Factor	4.134734		253	4.134918	0.12101331		352	4.123422	0.05546316
allgoodroot2.Root3.Fossil0	-56.681062		353	4.234188			353	4.234188	
allgoodroot2.Root3.Fossil1	-58.90643								
Bayes Factor	4.450736		Lowest Bayes Factor for Opil+Sant+Vis 0 vs. 1 = 4.070614						
allgoodroot2.Opil+Sant+Visc1.Fossil0	-56.814477		Positive evidence for 0 in Opilaceae-SantalaceaeSL-Viscaceae MRCA						
allgoodroot2.Opil+Sant+Visc1.Fossil1	-58.849784								
Bayes Factor	4.070614		<2 = Weak evidence			red = 0 favored			
allgoodroot2.Opil+Sant+Visc2.Fossil0	-56.728467		5>BF>2 = Positive evidence			blue = 1 favored			
allgoodroot2.Opil+Sant+Visc2.Fossil1	-58.898212		5-10 = Strong evidence						
Bayes Factor	4.33949		>10 = Very strong evidence						
allgoodroot2.Opil+Sant+Visc3.Fossil0	-56.815678								
allgoodroot2.Opil+Sant+Visc3.Fossil1	-58.883137								
Bayes Factor	4.134918								
allgoodroot3.Loranth1.Fossil0	-59.054962								
allgoodroot3.Loranth1.Fossil1	-56.714856								
Bayes Factor	-4.680212								
allgoodroot3.Loranth2.Fossil0	-59.02725								
allgoodroot3.Loranth2.Fossil1	-56.642727								
Bayes Factor	-4.769046								
allgoodroot3.Loranth3.Fossil0	-59.08149								
allgoodroot3.Loranth3.Fossil1	-56.714648								
Bayes Factor	-4.733684								
allgoodroot3.Root1.Fossil0	-56.689633								
allgoodroot3.Root1.Fossil1	-58.805307								
Bayes Factor	4.231348								
allgoodroot3.Root2.Fossil0	-56.763506								
allgoodroot3.Root2.Fossil1	-58.817017								
Bayes Factor	4.107022								
allgoodroot3.Root3.Fossil0	-56.811774								
allgoodroot3.Root3.Fossil1	-58.793902								
Bayes Factor	3.964256								
allgoodroot3.Opil+Sant+Visc1.Fossil0	-56.776413								

allgoodroot3.Opil+Sant+Visc1.Fossil1	-58.868397								
Bayes Factor	4.183968								
allgoodroot3.Opil+Sant+Visc2.Fossil0	-56.724201								
allgoodroot3.Opil+Sant+Visc2.Fossil1	-58.785912								
Bayes Factor	4.123422								
allgoodroot3.Opil+Sant+Visc3.Fossil0	-56.660063								
allgoodroot3.Opil+Sant+Visc3.Fossil1	-58.777157								
Bayes Factor	4.234188								