

Table 2: Topology tests. Likelihood values of the best trees and results of the 1sKH test and ELW test on the different constraints on the topology of the tree. Results in bold significantly reject the concerned topologies.

Constraint	logL best tree	diff. with unconstrained	1sKH test	ELW test
<i>Kroswia</i> monophyletic	-19700.43	2.77	0.312	0.0816
<i>Kroswia</i> out of <i>F. leucosticta</i> group	-19711.34	13.68	0.145	0.0239
<i>Kroswia</i> out of <i>Fuscopannaria</i> s. str.	-19741.75	44.09	0.002	0
<i>Physma</i> group in <i>Pannaria</i> group, <i>Fuscopannaria</i> group basal	-19730.55	32.89	0.019	0.011
R969 basal out of <i>Physma</i> / <i>Parmeliella mariana</i> group	-19701	3.34	0.299	0.0816
<i>Physma</i> basal to R969/ <i>Parmeliella mariana</i> group	-19731.4	33.75	0.007	0
R1122 basal to <i>Physma</i>	-19703.25	5.59	0.165	0.041
R122 basal to <i>P. mariana</i> group; <i>Physma</i> outside	-19707.95	10.29	0.094	0.018