

Table 3: Reconstruction of ancestral states. T=tripartite, P=pannarioid, C=collematoid. SB=SIMMAP results on the 50% consensus Bayesian tree, S20 = SIMMAP results on the subset of 20 trees, M= Mesquite results, BF= Bayes Factor of the BayesTraits analysis, T>P= Tripartite rather than pannarioid ancestor, T>C=Tripartite rather than collematoid ancestor

Node	SB	S20	M	BF[T>P]	BF[T>C]
<i>F. leucosticta</i> + <i>F. praetermissa</i>	P=0.99	P=0.99	P=0.99		
<i>Fuscopannaria</i> s. str. (incl. <i>F. ignobilis</i> , wo <i>F. sampaiana</i>)	P=0.99	P=0.99	P=0.99		
<i>Fuscopannaria</i> group (incl. <i>F. sampaiana</i>)	P=0.99	P=0.97	P=0.73		
genus <i>Pannaria</i>	T=0.99	T=0.98	T=0.91	9.66	
genus <i>Pannaria</i> wo <i>P. implexum</i>	T=0.99	T=0.8	T=0.84		
<i>Psoroma</i> + <i>Psorophorus</i> + <i>Fuscoderma</i>	T=0.98	T=0.93	T=0.83		
<i>Pannaria</i> group (incl. <i>Psoroma</i> , <i>Staurolemma</i> etc.)	T=0.94	T=0.86	T=0.81		
<i>Fuscopannaria</i> + <i>Pannaria</i>	T=0.91	T=0.84	T=0.77	1.4	
<i>Physma</i> + <i>P. mariana</i>	P=0.58	P=0.5	P=0.39	0.32	3.94
<i>Physma</i> + <i>P. mariana</i> + <i>Xanthopsoroma</i>	T=0.99	T=0.99	T=0.91	11.7	8.7
<i>Fuscopannaria</i> + <i>Pannaria</i> + <i>Physma</i>	T=0.92	T=0.89	T=0.815	1.06	
<i>Parmeliella</i> s. str. Group (incl. <i>Erioderma</i> etc.)	P=0.98	P=0.99	P=0.87		
Family Pannariaceae	P=0.7	P=0.71	P=0.46		