Table 1: List of matrices used in the analyses, with the biont and the taxonomic breadth of the taxa it contains, the loci, number of taxa, number of character included, total number of sites, number of variable characters and of parsimony-informative characters. The numbers inside parentheses represent the proportion of the total.

195 (0.35)	233 (0.41)	563/907 (0.62)	173	ITS	Section Polydactylon	Mycobiont	7
				char.			
141 (0.95)	148(1)	148	119(1)	PICS-ORD			
82(0.15)	129(0.23)	$560/682 \ (0.82)$	80(0.76)	ß-tubulin			
81 (0.1)	120 (0.15)	$817/942 \ (0.87)$	78(0.74)	EFT2.1			
61 (0.09)	89(0.13)	$676/716 \ (0.94)$	98(0.93)	RPB1			
53 (0.04)	69(0.06)	$1231/1374 \ (0.9)$	84(0.8)	LSU			
108 (0.23)	$135\ (0.28)$	475/907 (0.52)	119 (1)	STI			
				6			
526 (0.13)	690 (0.18)	$3907/4769 \ (0.82)$	119	Concatenated:	Section $Polydactylon$	Mycobiont	6
176 (0.28)	237 (0.37)	636/1162 (0.55)	209	rbcLX	Genus Nostoc	Cyanobiont	υπ
280 (0.33)	313 (0.36)	861/907 (0.95)	206	STI	Section Polydactylon	Mycobiont	4
					(+outgroup)		
277(0.44)	319(0.5)	$636/1162 \ (0.55)$	417	rbcLX	Genus $Nostoc$	Cyanobiont	ဃ
84 (0.15)	131 (0.24)	552/682 (0.81)	104 (0.87)	ß-tubulin			
81 (0.1)	120 (0.15)	$818/942 \ (0.87)$	84 (0.71)	EFT2.1			
61(0.09)	87 (0.13)	$676/716 \ (0.94)$	109(0.92)	RPB1			
61 (0.05)	78 (0.06)	$1252/1374 \ (0.94)$	118 (0.99)	$_{ m LSU}$			
123 (0.24)	150 (0.3)	$505/907 \ (0.56)$	119(1)	STI			
				ĊП			
410 (0.11)	566 (0.15)	$3803/4621 \ (0.82)$	119	Concatenated:	Section $Polydactylon$	Mycobiont	2
162(0.33)	194 (0.39)	$495/686 \ (0.72)$	80(0.76)	ß-tubulin			
216 (0.28)	261 (0.33)	$784/942 \ (0.83)$	78(0.74)	EFT2.1			
235 (0.35)	276(0.43)	638/716 (0.89)	98(0.93)	RPB1			
163 (0.13)	244 (0.2)	(0.875)	84 (0.8)	LSO			
				4	(+outgroup)		
776 (0.25)	975 (0.31)	$3135/3736 \ (0.84)$	105	Concatenated	Genus $Peltigera$	Mycobiont	1
char.	char.	Total No. of sites					No.
No. parsimony-inf.	No. variable	No. char. incl. /	No. taxa	Loci	Taxonomic breadth	Biont	Matrix