Table S2: Posterior probabilities for each species according to the bGMYC analyses on the different loci and the bPTP analysis on the tree resulted from the concatenated dataset, for the Scabrosoid and the Dolichorhizoid clades. Species names refer to the lineages defined in Figure 2.

	ΓI	rs	EFT	Γ2.1	LS	SU	IG	S3	IGS	S16	bPTP	all loci
species	No. taxa	support value										
P. neopolydactyla 4	10	0.49	9	0.45	9	(0.11)	5	0.51	5	0.41	10	0.5
P. neopolydactyla 5	3	0.86	2	0.87	3	0.67	1	0.88	1	0.91	/	/
P. neopolydactyla 6	2	0.95	0	/	2	0.84	2	0.92	2	0.9	2	0.52
P. neopolydactyla 7	1	0.97	1	0.93	1	0.87	1	0.95	1	0.92	1	1
P. scabrosa 1	5	0.89	4	0.31	5	0.6	4	0.48	4	0.7	5	0.98
P. scabrosa 2	6	0.5	5	0.42	5	0.3	4	0.34	4	0.46	6	0.87
P. scabrosa 3a	3	0.88	2	0.68	2	0.58	2	0.65	2	0.48	/	/
P. scabrosa 3b			1	0.8	1	0.59'	1	0.67	1	0.5	1	1
P. scabrosa 4	3	0.87	2	0.59	3	0.51	2	0.88	0	/	3	0.81
P. melanorrhiza	2	0.93	2	0.86	2	0.92	1	0.99	1	0.99	2	0.89

species	ITS		ß-tubulin		IGS1		IGS3		IGS16		bPTP all loci		
	No. taxa	support value	No. taxa	support value	No. taxa	support value	No. taxa	support value	No. taxa	support value	No. taxa	support value ML tree	suppor value 50% bayes
P. neopolydactyla 3	1	0.86	1	0.34	1	0.47	1	0.19	1	0.58	1	1	1
P. sp. 12	1	0.83	1	0.75	1	0.53	1	0.84	1	0.68	1	1	1
P. sp. 6	3	0.76	3	0.63	3	0.74	3	0.62	2	0.56	3	0.81	0.51
P. sp. 7a	7	0.6	3	0.42	7	0.8	6	0.52	7	0.8			0.53
P. sp. 7b			2	0.49							3	0.76	0.52
P. scabrosella			2	0.42							2	0.7	0.84
P. neopolydactyla 1b	1	0.57			1	0.43					1	0.99	0.98
P. occidentalis	7	0.51	5	0.45	4	0.33	4	0.32	4	0.3			
P. pulverulenta 3	2	0.5	2	0.47	2	0.54	2	0.35			2	0.65	0.62
P. pulverulenta 1	6	0.48	6	0.28	/		3	0.34	3	0.56	6	0.75	/
P. pulverulenta 2	2	0.46	2	0.25	2	0.45	2	0.36	2	0.55	2	0.64	0.63
P. hawaiensis	1	0.39			0	/							0.98
P. sp. 2a	3	0.38	2	0.29 (with- out P907)	2	0.42 (with- out P907)	2	0.28 (with- out P907)	2 (with- out P907)	0.59			0.88 (with- out P907)
P. neopolydactyla 1	9	0.37			9+1	0.32 with P325					6 (with- out 640 645- 1252)	0.52	0.39
P. sp. 3	4	0.33	4	(0.23)	0	/			3	0.8	4	0.36 with $hawaien$ -sis	0.64
P. truculenta	8	0.33			5	(0.15)							
P. sp. 5	1	0.29			0						1	0.75	1
P. sp. 4	1	0.27			0						1	0.94	1
P. pacifica	2	0.27	2	0.33	1	0.47			2	0.35	2	0.88	0.82
P. neopolydactyla 2a	6	0.24			4	0.69							0.38
P. neopolydactyla 2c					0	/			2	0.54	3	0.43	
P. dolichorhiza b	2	0.22			/								
P. neopolydactyla 2b	4	0.2			2	0.38							
P. dolichorhiza	8	0.18	8	0.46	6	0.19	7	0.41			8	0.62	0.62
P. sp. 2b	2	0.14			2	0.57	2	0.38	2	0.66	2	0.51	0.89
P. hymenina	/	/			4	0.27			3	0.72	7 (but without P1229)	0.47	0.29
P. sp. 1	/	/			/				2	0.45	1	0.54	0.56
P. dolichorhiza 2	/	/	2	0.4	/		2	0.22	2	0.46	2	0.84	0.73
P1202 alone							1	0.5				0.99	0.98
P1596 alone							1	0.44				0.99	0.98