

*Peltigera* (Lecanoromycetes) on Mt. Kilimanjaro, East Africa

## Supplementary Material

**Table S1.** Specimen information with NCBI GenBank Accession numbers of the ITS sequences for the sequenced *Peltigera* specimens. All specimens are collected from Mt. Kilimanjaro, Tanzania, except for the three *P. lepidophora* specimens from Finland. The plot ecosystems include lower-montane forest (Flm), *Ocotea* forest (FOc), disturbed *Ocotea* forest (FOD), *Podocarpus* forest (FPo), disturbed *Podocarpus* forest (FPD), *Erica* forest (FEr), disturbed *Erica* forest (FED), and *Helichrysum* heath (Hel). Elev. = Elevation.

<i>Peltigera</i> species	Specimen ID	Plot	Elev. (m)	Substrate	ITS variant	Accession no.
<i>P. alkalicola</i>	UK171041b	FED3	3940	Ground	alka1	MZ385613
<i>P. alkalicola</i> (TYPE)	UK171254d	Hel4	4390	Ground	alka1	MZ385614
<i>P. dolichorhiza</i>	UK170782	FPo1	2850	Rock	doli1	MZ385615
<i>P. dolichorhiza</i>	UK170809c	FPD4	2820	Trunk	-	-
<i>P. dolichorhiza</i>	UK170813b	FPD4	2820	Trunk	-	-
<i>P. dolichorhiza</i>	UK170817e	FPD4	2820	Trunk	-	-
<i>P. dolichorhiza</i>	UK170818a	FPD4	2820	Ground	doli1	MZ385616
<i>P. dolichorhiza</i>	UK170818b	FPD4	2820	Ground	doli1	MZ385617
<i>P. dolichorhiza</i>	UK170820	FPD4	2820	Decaying wood	-	-
<i>P. dolichorhiza</i>	UK170861	FPD5	2770	Ground	doli1	MZ385618
<i>P. dolichorhiza</i>	UK170876	FPD5	2770	Ground	doli1	MZ385619
<i>P. dolichorhiza</i>	UK170937a	Flm1	1920	Trunk	-	-
<i>P. dolichorhiza</i>	UK170938a	Flm1	1920	Trunk	doli1	MZ385620
<i>P. dolichorhiza</i>	UK170942a	Flm1	1920	Decaying wood	doli1	MZ385621
<i>P. dolichorhiza</i>	UK171320a	FED1	3520	Ground	doli1	MZ385622
<i>P. dolichorhiza</i>	UK171320c	FED1	3520	Ground	doli1	MZ385623
<i>P. dolichorhiza</i>	UK171339c	FED1	3520	Ground	-	-
<i>P. dolichorhiza</i>	UK171340d	FED1	3520	Trunk	-	-
<i>P. dolichorhiza</i>	UK171438d	FEr2	3510	Trunk	-	-
<i>P. dolichorhiza</i>	UK171439f	FEr2	3510	Trunk	doli1	MZ385624
<i>P. dolichorhiza</i>	UK171440f	FEr2	3510	Ground	-	-
<i>P. dolichorhiza</i>	UK171447b	FEr2	3510	Ground	doli1	MZ385625
<i>P. dolichorhiza</i>	UK171449d	FEr2	3510	Ground	-	-
<i>P. dolichorhiza</i>	UK171457	FEr2	3510	Ground	-	-
<i>P. dolichorhiza</i>	UK171468j	FPD1	3060	Trunk	doli1	MZ385626
<i>P. dolichorhiza</i>	UK171474	FPD1	3060	Ground	-	-
<i>P. dolichorhiza</i>	UK171476a	FPD1	3060	Ground	-	-
<i>P. dolichorhiza</i>	UK171477c	FPD1	3060	Trunk	-	-
<i>P. dolichorhiza</i>	UK171513a	FOc5	2750	Trunk	doli1	MZ385627
<i>P. dolichorhiza</i>	UK171577d	FPD2	2990	Trunk	doli1	MZ385628
<i>P. dolichorhiza</i>	UK171577e	FPD2	2990	Trunk	-	-
<i>P. dolichorhiza</i>	UK171592a	FPo3	2970	Trunk	doli1	MZ385629
<i>P. lepidophora</i> <sup>1</sup>	JR_E	-	-	Ground	lepi1	MZ385630
<i>P. lepidophora</i> <sup>2</sup>	JR_K23635	-	-	Ground	lepi1	MZ385631
<i>P. lepidophora</i> <sup>3</sup>	TUF090969	-	-	Ground	lepi1	MZ385632
<i>P. polydactyloides</i>	UK170778b	FPo1	2850	Trunk	poly2	MZ385633

<i>P. polydactyloides</i>	UK170779b	FPo1	2850	Canopy	poly2	MZ385634
<i>P. polydactyloides</i>	UK170845b	FPD3	2880	Trunk	-	-
<i>P. polydactyloides</i>	UK170858c	FPo4	2720	Trunk	poly3	MZ385635
<i>P. polydactyloides</i>	UK170906e	FOD4	2560	Canopy	poly7	MZ385636
<i>P. polydactyloides</i>	UK171038b	FED3	3940	Ground	poly4	MZ385637
<i>P. polydactyloides</i>	UK171080a	FED5	3800	Ground	poly4	MZ385638
<i>P. polydactyloides</i>	UK171084a	FED5	3800	Ground	poly4	MZ385639
<i>P. polydactyloides</i>	UK171095d	FED5	3800	Ground	-	-
<i>P. polydactyloides</i>	UK171125	FED4	3660	Ground	-	-
<i>P. polydactyloides</i>	UK171131c	FED4	3660	Ground	-	-
<i>P. polydactyloides</i>	UK171150d	FED4	3660	Ground	poly4	MZ385640
<i>P. polydactyloides</i>	UK171276b	Hel1	3880	Ground	poly12	MZ385641
<i>P. polydactyloides</i>	UK171313f	FED1	3520	Ground	-	-
<i>P. polydactyloides</i>	UK171336a	FED1	3520	Trunk	poly8	MZ385642
<i>P. polydactyloides</i>	UK171358c	Hel2	4190	Ground	poly9	MZ385643
<i>P. polydactyloides</i>	UK171373	Hel2	4190	Ground	poly9	MZ385644
<i>P. polydactyloides</i>	UK171396a	FEr4	3500	Ground	poly5	MZ385645
<i>P. polydactyloides</i>	UK171449a	FEr2	3510	Ground	poly5	MZ385646
<i>P. polydactyloides</i>	UK171458q	FEr4	3500	Trunk	-	-
<i>P. polydactyloides</i>	UK171465c	FEr4	3500	Trunk	-	-
<i>P. polydactyloides</i>	UK171468k	FPD1	3060	Trunk	poly6	MZ385647
<i>P. polydactyloides</i>	UK171472c	FPD1	3060	Trunk	-	-
<i>P. polydactyloides</i>	UK171476b	FPD1	3060	Ground	poly10	MZ385648
<i>P. polydactyloides</i>	UK171477d	FPD1	3060	Trunk	poly1	MZ385649
<i>P. polydactyloides</i>	UK171513c	FOc5	2750	Trunk	poly11	MZ385650
<i>P. polydactyloides</i>	UK171523j	FPo2	2940	Trunk	poly10	MZ385651
<i>P. polydactyloides</i>	UK171528a	FPo2	2940	Trunk	-	-
<i>P. praetextata</i>	UK171380j	FEr1	3850	Decaying wood	prae1	MZ385652
<i>P. praetextata</i>	UK171381a	FEr1	3850	Ground	-	-
<i>P. praetextata</i>	UK171394a	FEr4	3500	Ground	prae1	MZ385653
<i>P. praetextata</i>	UK171397e	FEr4	3500	Decaying wood	prae1	MZ385654
<i>P. praetextata</i>	UK171449e	FEr2	3510	Ground	prae1	MZ385655
<i>P. praetextata</i>	UK171465d	FEr4	3500	Trunk	-	-
<i>P. praetextata</i>	UK171466a	FEr4	3500	Decaying wood	-	-
<i>P. praetextata</i>	UK171519d	FOc5	2750	Trunk	prae1	MZ385656
<i>P. praetextata</i>	UK171523k	FPo2	2940	Trunk	prae1	MZ385657
<i>P. praetextata</i>	UK171529b	FPo2	2940	Trunk	prae1	MZ385658
<i>P. rufescentiformis</i>	UK171041c	FED3	3940	Ground	rufe3	MZ385659
<i>P. rufescentiformis</i>	UK171045	FED3	3940	Ground	rufe3	MZ385660
<i>P. rufescentiformis</i>	UK171062	FED3	3940	Ground	-	-
<i>P. rufescentiformis</i>	UK171068c	FED3	3940	Ground	rufe4	MZ385661
<i>P. rufescentiformis</i>	UK171073b	FED5	3800	Ground	-	-
<i>P. rufescentiformis</i>	UK171084c	FED5	3800	Ground	-	-
<i>P. rufescentiformis</i>	UK171088a	FED5	3800	Ground	-	-
<i>P. rufescentiformis</i>	UK171095c	FED5	3800	Ground	-	-
<i>P. rufescentiformis</i>	UK171097	FED5	3800	Ground	-	-
<i>P. rufescentiformis</i>	UK171106a	FED5	3800	Ground	-	-
<i>P. rufescentiformis</i>	UK171119a	FED5	3800	Ground	-	-
<i>P. rufescentiformis</i>	UK171165a	FED4	3660	Ground	rufe12	MZ385662

<i>P. rufescentiformis</i>	UK171284a	Hel1	3880	Ground	rufe6	MZ385663
<i>P. rufescentiformis</i>	UK171313h	FED1	3520	Ground	rufe4	MZ385664
<i>P. rufescentiformis</i>	UK171318e	FED1	3520	Rock	-	-
<i>P. rufescentiformis</i>	UK171319d	FED1	3520	Rock	-	-
<i>P. rufescentiformis</i>	UK171320b	FED1	3520	Ground	-	-
<i>P. rufescentiformis</i>	UK171320t	FED1	3520	Ground	rufe1	MZ385665
<i>P. rufescentiformis</i>	UK171336b	FED1	3520	Trunk	-	-
<i>P. rufescentiformis</i>	UK171338	FED1	3520	Rock	-	-
<i>P. rufescentiformis</i>	UK171358b	Hel2	4190	Ground	rufe2	MZ385666
<i>P. rufescentiformis</i>	UK171383a	FEr1	3850	Trunk	rufe3	MZ385667
<i>P. rufescentiformis</i>	UK171388b	FEr1	3850	Decaying wood	rufe11	MZ385668
<i>P. rufescentiformis</i>	UK171391c	FEr4	3500	Ground	rufe4	MZ385669
<i>P. rufescentiformis</i>	UK171394b	FEr4	3500	Ground	-	-
<i>P. rufescentiformis</i>	UK171395	FEr4	3500	Decaying wood	-	-
<i>P. rufescentiformis</i>	UK171398a	FEr4	3500	Ground	-	-
<i>P. rufescentiformis</i>	UK171400	FEr4	3500	Ground	-	-
<i>P. rufescentiformis</i>	UK171416a	FEr3	3830	Ground	rufe7	MZ385670
<i>P. rufescentiformis</i>	UK171436a	FEr3	3830	Ground	-	-
<i>P. rufescentiformis</i>	UK171446	FEr2	3510	Decaying wood	-	-
<i>P. rufescentiformis</i>	UK171447c	FEr2	3510	Ground	rufe5	MZ385671
<i>P. rufescentiformis</i>	UK171449c	FEr2	3510	Ground	rufe6	MZ385672
<i>P. rufescentiformis</i>	UK171454a	FEr2	3510	Ground	-	-
<i>P. rufescentiformis</i>	UK171458p	FEr4	3500	Trunk	rufe7	MZ385673
<i>P. rufescentiformis</i>	UK171465e	FEr4	3500	Trunk	-	-
<i>P. rufescentiformis</i>	UK171554e	FED2	3720	Ground	rufe8	MZ385674
<i>P. rufescentiformis</i>	UK171562e	FED2	3720	Ground	rufe3	MZ385675
<i>P. seneca</i>	UK171160d	FED4	3660	Ground	sene1	MZ385676
<i>P. seneca</i>	UK171269a	Hel1	3880	Ground	sene1	MZ385677
<i>P. seneca</i>	UK171270c	Hel1	3880	Rock	-	-
<i>P. seneca</i>	UK171291a	FEr0	3910	Rock	sene1	MZ385678
<i>P. seneca</i>	UK171320d	FED1	3520	Ground	sene1	MZ385679
<i>P. seneca</i>	UK171325b	FED1	3520	Ground	-	-
<i>P. seneca</i>	UK171326	FED1	3520	Ground	-	-
<i>P. seneca</i>	UK171327a	FED1	3520	Ground	sene3	MZ385680
<i>P. seneca</i>	UK171370a	Hel2	4190	Ground	sene3	MZ385681
<i>P. seneca</i>	UK171398b	FEr4	3500	Ground	sene3	MZ385682
<i>P. seneca</i>	UK171406b	FEr4	3500	Decaying wood	-	-
<i>P. seneca</i>	UK171426a	FEr3	3830	Rock	sene1	MZ385683
<i>P. seneca</i>	UK171459c	FEr4	3500	Ground	-	-
<i>P. seneca</i>	UK171466c	FEr4	3500	Decaying wood	-	-
<i>P. seneca</i>	UK171554f	FED2	3720	Ground	sene2	MZ385684
<i>P. seneca</i>	UK171561b	FED2	3720	Ground	sene1	MZ385685
<i>P. seneca</i>	UK171561c	FED2	3720	Ground	sene1	MZ385686
<i>P. seneca</i>	UK171569a	FED2	3720	Ground	-	-
<i>P. sorediifera</i>	UK171160e	FED4	3660	Ground	-	-
<i>P. sorediifera</i>	UK171165d	FED4	3660	Ground	sore2	MZ385687
<i>P. sorediifera</i>	UK171241b	Hel5	4550	Rock	-	-
<i>P. sorediifera</i>	UK171254a	Hel4	4390	Ground	-	-
<i>P. sorediifera</i>	UK171268a	Hel1	3880	Rock	-	-

<i>P. sorediifera</i>	UK171270a	Hel1	3880	Rock	sore2	MZ385688
<i>P. sorediifera</i>	UK171273b	Hel1	3880	Ground	-	-
<i>P. sorediifera</i>	UK171276a	Hel1	3880	Ground	-	-
<i>P. sorediifera</i>	UK171284c	Hel1	3880	Ground	-	-
<i>P. sorediifera</i>	UK171341	FED1	3520	Ground	sore1	MZ385689
<i>P. sorediifera</i>	UK171380k	FEr1	3850	Decaying wood	sore3	MZ385690
<i>P. sorediifera</i>	UK171431a	FEr3	3830	Rock	sore4	MZ385691
<i>P. sorediifera</i>	UK171561a	FED2	3720	Ground	sore2	MZ385692
<i>P. ulcerata</i>	UK170778a	FPo1	2850	Trunk	-	-
<i>P. ulcerata</i>	UK170797b	FOc1	2120	Canopy	ulce1	MZ385693
<i>P. ulcerata</i>	UK170944g	Flm1	1920	Trunk	ulce1	MZ385694
<i>P. ulcerata</i>	UK171436b	FEr3	3830	Ground	-	-
<i>P. ulcerata</i>	UK171440h	FEr2	3510	Ground	ulce2	MZ385695
<i>P. ulcerata</i>	UK171447a	FEr2	3510	Ground	-	-
<i>P. ulcerata</i>	UK171519c	FOc5	2750	Trunk	ulce3	MZ385696

<sup>1</sup> Collected from Kilpisjärvi, Lapland, Finland by J. Rikkinen.

<sup>2</sup> Collected from Lohja, Uusimaa, Finland by J. Rikkinen, sequence produced by I. Jüriado.

<sup>3</sup> Collected from Muonio, Lapland, Finland by I. Jüriado, sequence produced by I. Jüriado.