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Supplementary material

First record of *Phlebia tremelloidea* (Bres.) Parmasto in Italy

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Table S1 – Newly generated sequences from *Phlebia tremelloidea*.

GenBank accession	Region	Primers
PP716900	ITS	ITS1-ITS4
PP716901	ITS	ITS1-ITS4
PP716902	ITS	ITS1-ITS4
PP716903	ITS	ITS1-ITS4
PP716904	ITS	ITS1-ITS4
PP716999	SSU	NS1-NS8
PP717000	SSU	NS1-NS8
PP717001	SSU	NS1-NS8
PP717002	SSU	NS1-NS8
PP716909	LSU	LR0R-LR7
PP716910	LSU	LR0R-LR7
PP716911	LSU	LR0R-LR7
Submissions grp 9569955	RPB2	5F-7CR
Submissions grp 9569955	RPB2	5F-7CR
Submissions grp 9569955	RPB2	6F1-7R1
Submissions grp 9569955	RPB2	6F1-7R1
Submissions grp 9569955	RPB2	6F1-7R1
Submissions grp 9569955	RPB2	6F1-7R1

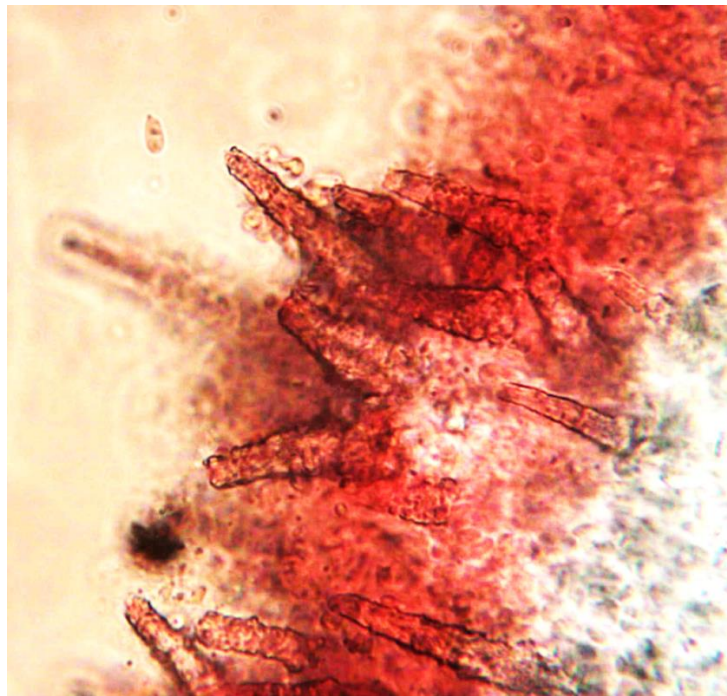
Supplementary Table S2 – Comparison sequences from GenBank used in the present study. All the sequences include the ITS region. The original species name deposited in GenBank was retained regardless with possible nomenclatural updates. This set has been purged of non-aligning sequences by means of Geneious R9 check.

Accession	Voucher/strain/isolate	species	Region
KY948772	GB501	<i>Phlebia lindtneri</i>	ITS
KY948847	GB501	<i>Phlebia lindtneri</i>	ITS
FJ594063	FCL22	<i>Phlebia lindtneri</i>	ITS
AB210076	GB-1027	<i>Phlebia lindtneri</i>	ITS
OP700299	LE-BIN 4006	<i>Phlebia tremelloidea</i>	ITS
MH857642	CBS:285.56	<i>Phlebia radiata</i>	ITS
MH857641	CBS:284.56	<i>Phlebia radiata</i>	ITS
MH857212	CBS:297.53	<i>Phlebia radiata</i>	ITS
MK404485	CLZhao_4885	<i>Phlebia radiata</i>	ITS
MK404484	CLZhao_4882	<i>Phlebia radiata</i>	ITS
GU134619	UF206	<i>Phlebia rufa</i>	ITS
MH863896	CBS:126034	<i>Phlebia rufa</i>	ITS
OR230690	KORD1f	<i>Phlebia rufa</i>	ITS
MZ509355	AL_Ph11	<i>Phlebia rufa</i>	ITS
MT458525	EP.20-A1682	<i>Phlebia rufa</i>	ITS
MT458524	EP.17-A1354	<i>Phlebia rufa</i>	ITS
MT526339	TASM:YG77	<i>Phlebia rufa</i>	ITS
MT908650	Otu0275	<i>Phlebia rufa</i>	ITS
MT576974	IBB-TEF7	<i>Phlebia rufa</i>	ITS
MN744654	PNV-9	<i>Phlebia rufa</i>	ITS
MH930269	MES-2641	<i>Phlebia rufa</i>	ITS
KX065963	CFMR:2745	<i>Phlebia rufa</i>	ITS
KX065955	CFMR:5445	<i>Phlebia rufa</i>	ITS
KP135375	DR-60	<i>Phlebia rufa</i>	ITS
KP135374	HHB-14924	<i>Phlebia rufa</i>	ITS
KP050571	DO16	<i>Phlebia rufa</i>	ITS
KC414253	isolate_A11	<i>Phlebia rufa</i>	ITS
KC505572	HE2788	<i>Phlebia rufa</i>	ITS
HQ153428	FCUG2994	<i>Phlebia rufa</i>	ITS
AY787679.2	olrim921	<i>Phlebia rufa</i>	ITS
PP515435	CLZhao 19027	<i>Pseudophlebia semisupina</i>	ITS
PP515434	CLZhao 18882	<i>Pseudophlebia semisupina</i>	ITS
PP515433	CLZhao 18851	<i>Pseudophlebia semisupina</i>	ITS
PP515432	CLZhao 18786	<i>Pseudophlebia semisupina</i>	ITS
PP515431	CLZhao 17843	<i>Pseudophlebia semisupina</i>	ITS
PP515430	CLZhao 17836	<i>Pseudophlebia semisupina</i>	ITS
PP515429	CLZhao 17832	<i>Pseudophlebia semisupina</i>	ITS
PP515428	CLZhao 17779	<i>Pseudophlebia semisupina</i>	ITS
PP515427	CLZhao 17766	<i>Pseudophlebia semisupina</i>	ITS
MW363488	rlc-510	<i>Pseudophlebia semisupina</i>	ITS
MW582739	CLZhao 17209	<i>Pseudophlebia semisupina</i>	ITS
MW582738	CLZhao 17017	<i>Pseudophlebia semisupina</i>	ITS
MW582737	CLZhao 17168	<i>Pseudophlebia semisupina</i>	ITS
MW582736	CLZhao 17161	<i>Pseudophlebia semisupina</i>	ITS
MK404321	CLZhao 8160	<i>Pseudophlebia semisupina</i>	ITS
MG719280	JZ23	<i>Pseudophlebia semisupina</i>	ITS

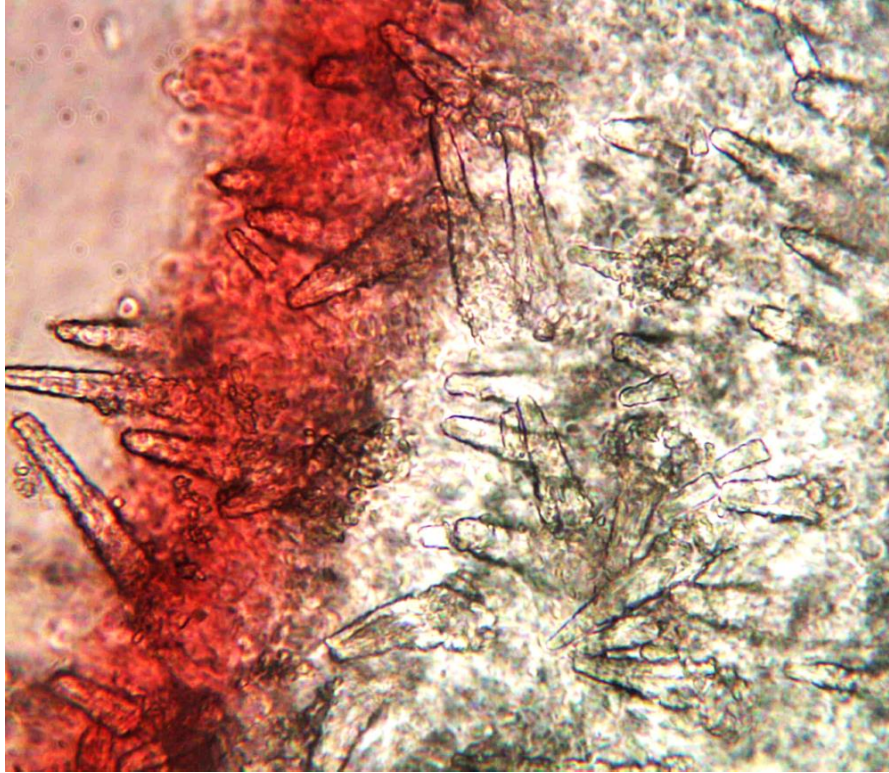
KU509525	Cui 11146	<i>Pseudophlebia semisupina</i>	ITS
KU509524	Cui 11135	<i>Pseudophlebia semisupina</i>	ITS
KU509492	Dai 13246	<i>Pseudophlebia semisupina</i>	ITS
OM955810	CLZhao 7491	<i>Pseudophlebia semisupina</i>	ITS
OM955809	CLZhao 7426	<i>Pseudophlebia semisupina</i>	ITS
MZ636937	TNM:F30812	<i>Pseudophlebia semisupina</i>	ITS
KF845957	Cui 7971	<i>Pseudophlebia semisupina</i>	ITS
KF845956	Cui 10222	<i>Pseudophlebia semisupina</i>	ITS
KT156706	JV 1504/128	<i>Aurantiporus mayaensis</i>	ITS
HM772140	TJB10228	<i>Aurantiporus mayaensis</i>	ITS
OL630487	373/12	<i>Aurantiporus mayaensis</i>	ITS
MH857596	CBS:229.56	<i>Steccherinum ochraceum</i>	ITS
MH878375	CBS:287.73	<i>Phlebia radiata</i>	LSU
MH869187	CBS:285.56	<i>Phlebia radiata</i>	LSU
MH869186	CBS:284.56	<i>Phlebia radiata</i>	LSU
MH868751	CBS:297.53	<i>Phlebia radiata</i>	LSU
MW732467	CLZhao 12103	<i>Phlebia radiata</i>	LSU
MW732466	CLZhao 4885	<i>Phlebia radiata</i>	LSU
MW732465	CLZhao 4882	<i>Phlebia radiata</i>	LSU
JF416683	KUC9190	<i>Phlebia radiata</i>	LSU
JF416681	KUC9185	<i>Phlebia radiata</i>	LSU
JF416678	KUC9164	<i>Phlebia radiata</i>	LSU
EU522844	TM03_491	<i>Phlebia radiata</i>	LSU
AY858369	KUC8034	<i>Phlebia radiata</i>	LSU
GQ241257	KUC9020	<i>Phlebia radiata</i>	LSU
MH867751	CBS:213.47	<i>Phlebia rufa</i>	LSU
MZ637100	Chen 3327	<i>Pseudophlebia semisupina</i>	LSU
KF845950	Cui 7971	<i>Pseudophlebia semisupina</i>	LSU
KF845949	Cui 10222	<i>Pseudophlebia semisupina</i>	LSU
HM772139	TJB10228	<i>Aurantiporus mayaensis</i>	LSU
MH869145	CBS:229.56	<i>Steccherinum ochraceum</i>	LSU



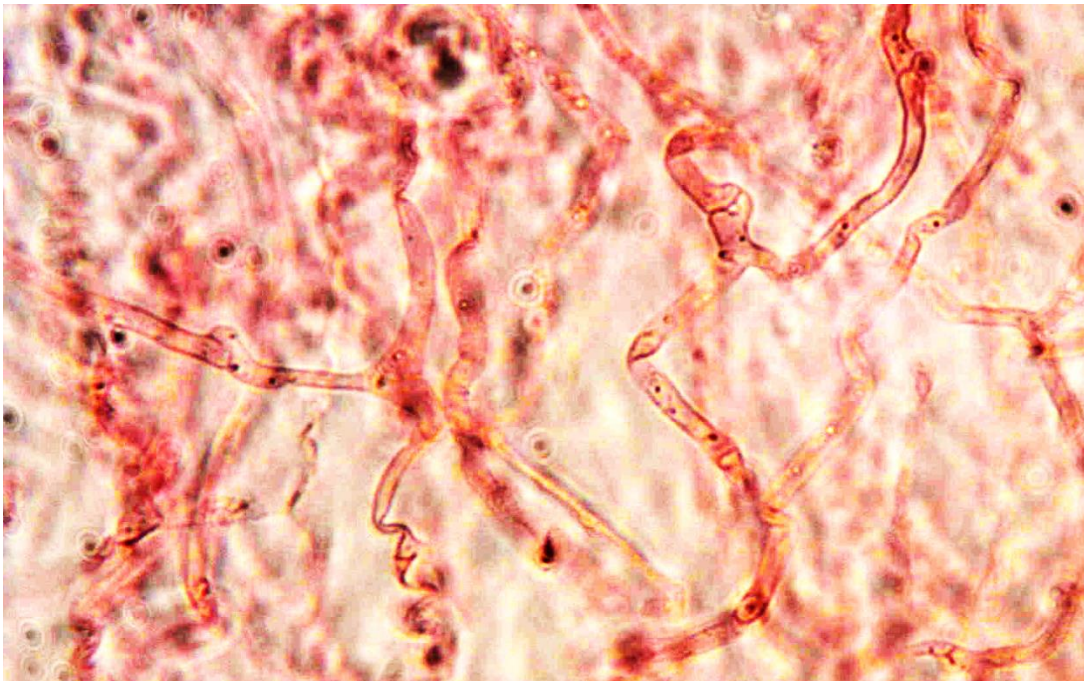
Supplementary Fig. S1 - Original specimen found in the State Strict Natural Reserve (RNIS) “Bosco Siro Negri” (Zerbolò, Italy) on 10 May 2023.



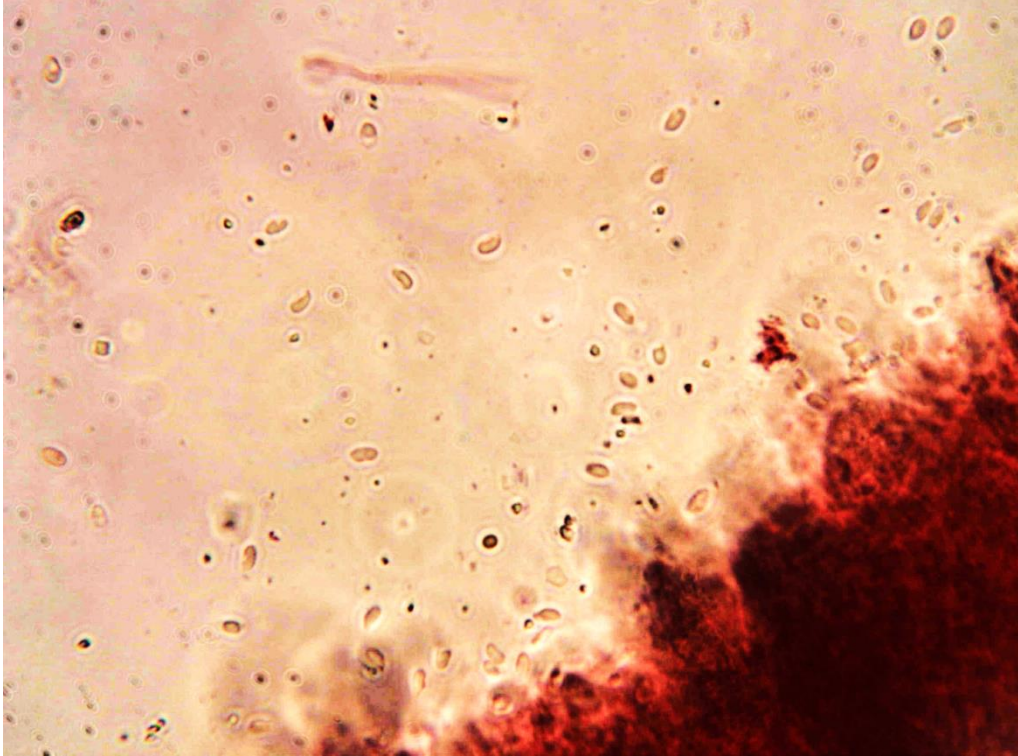
Supplementary Fig. S2 – Lamprocystidia protruding from the hymenium. An ellipsoid to oblong-ellipsoid spore is visible on the upper left side (specimen 2023).



Supplementary Fig. S3 – Lamprocystidia protruding and embedded from the hymenium (specimen 2023).



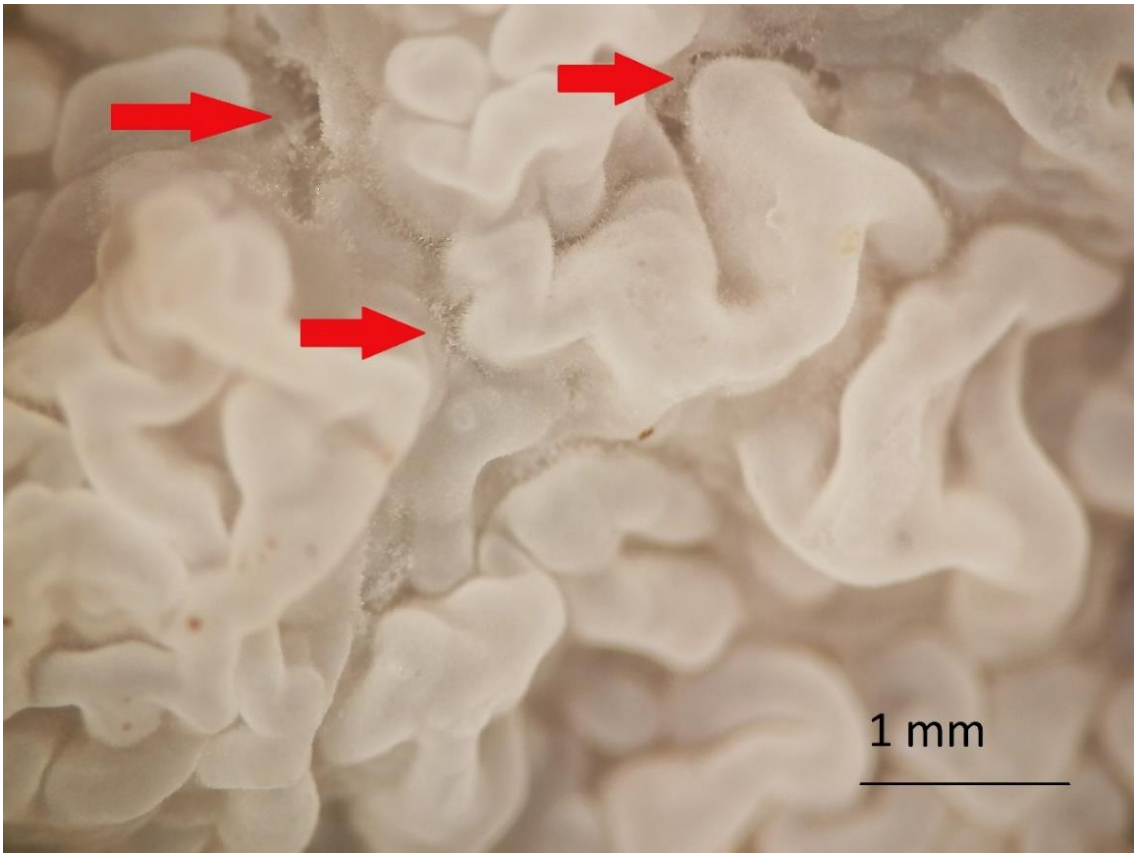
Supplementary Fig. S4 – Subicular clamped hyphae and basidiospores (specimen 2023).



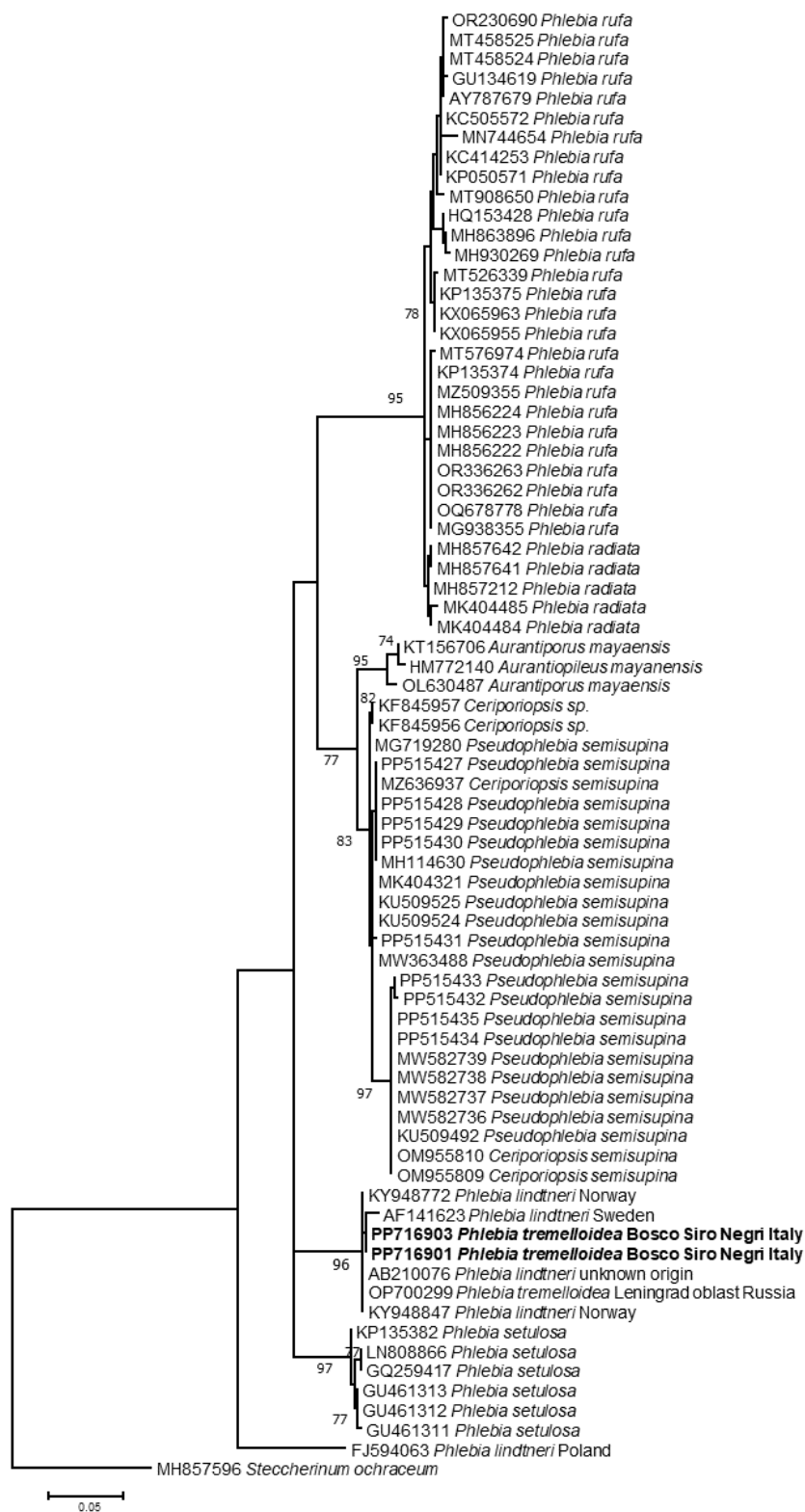
Supplementary Fig. S5 – Ellipsoid to oblong-ellipsoid spores (4.6-6 x 2.5 μm) forcibly produced in humid chamber (specimen 2023).



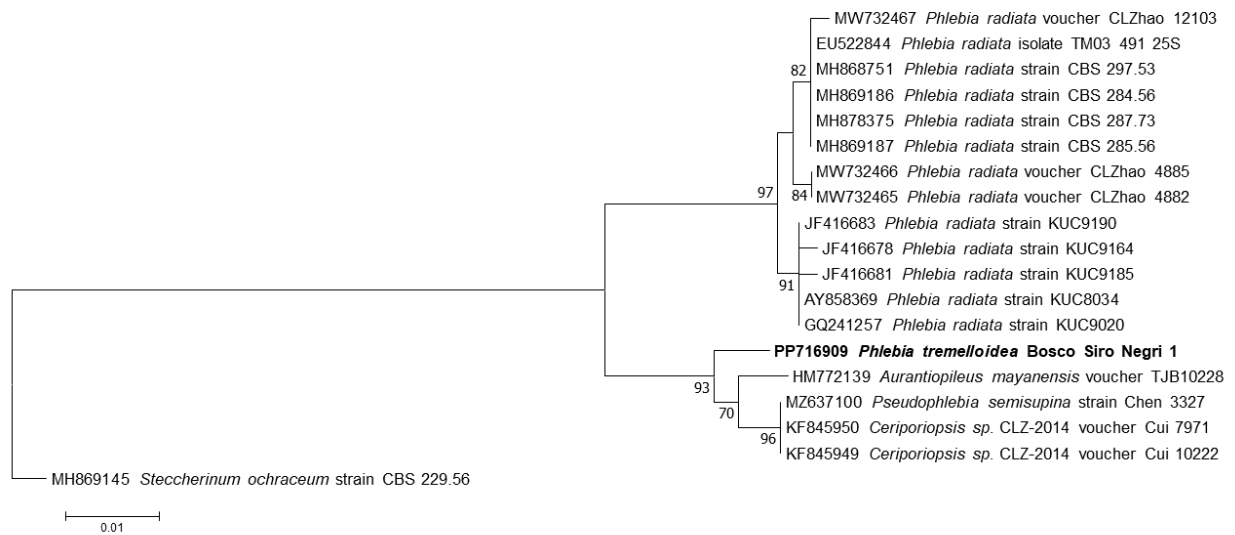
Supplementary Fig. S6 – Original specimen re-surveyed in the State Strict Natural Reserve (RNIS) “Bosco Siro Negri” (Zerbolò, Italy) on 24 May 2024.



Supplementary Fig. S7 – Original specimen re-surveyed in the State Strict Natural Reserve (RNIS) “Bosco Siro Negri” (Zerbolò, Italy) on 24 May 2024. The photograph was taken at about 200x magnitude. Red arrows indicate lamprocystidia.



Supplementary Fig. S8 - ML phylogeny resulting from the ITS region (1000 bootstraps). Alignment by Muscle – MEGA7. Bootstrap cut-off is set at 70%.



Supplementary Fig. S9 - ML phylogeny resulting from the LSU region (1000 bootstraps). Alignment by Muscle - Mega7. Bootstrap cut-off is set at 70%.