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Supplementary material

First records of *Phellodon castaneoleucus* in the chestnut forest of Monte Rocca Romana

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Supplementary Table S1 – Sequences used in this study for phylogenetic analyses.

Declared taxon	Herbarium ID	Accession ID (INSD/UNITE) ¹		Reference	Provenience	Collection year
		ITS	(partial) LSU			
<i>Amaurodon aquicoeruleus</i>	TUF100989	AM490944		Miettinen & Kõljalg 2007		
<i>Amaurodon viridis</i>	TAA149664	AM490942		Miettinen & Kõljalg 2007		
<i>Phellodon aquiloniniger</i> *	ELo231001	PQ226281		Svantesson et al. 2025	Sweden	
<i>Phellodon aquiloniniger</i>	EL371-13	PQ226279		Svantesson et al. 2025	Finland	
<i>Phellodon atroardesiacus</i> *	Cui 18449	MZ221189	MZ225598	Song et al. 2021	China	
<i>Phellodon atroardesiacus</i>	Cui 18457	MZ225577	MZ225599	Song et al. 2021	China	
<i>Phellodon caesius</i>	Cui 18734	OP751005	OP751407	Song et al. 2022	China	
<i>Phellodon castaneoleucus</i> *	K-M001436229	PQ226292	PQ222998	Svantesson et al. 2025	England	2022
<i>Phellodon castaneoleucus</i>	K-M001436242	PQ226293		Svantesson et al. 2025	England	2022
<i>Phellodon castaneoleucus</i>	K-M000079568	PQ226291		Svantesson et al. 2025	England	2000
<i>Phellodon castaneoleucus</i>	TUE002414	UDB04526122		Tedersoo et al. 2021	Georgia	2015
<i>Phellodon castaneoleucus</i>	TUE002414	UDB04526123		Tedersoo et al. 2021	Georgia	2015
<i>Phellodon castaneoleucus</i>	TUE002414	UDB04526125		Tedersoo et al. 2021	Georgia	2015
<i>Phellodon castaneoleucus</i>	TUE002414	UDB04526127		Tedersoo et al. 2021	Georgia	2015
<i>Phellodon castaneoleucus</i>	TUE002414	UDB04526129		Tedersoo et al. 2021	Georgia	2015
<i>Phellodon castaneoleucus</i> #	TUF111927	UDB07672113		This article	Italy	2021
<i>Phellodon castaneoleucus</i> #	TUF137800	UDB07675410		This article	Italy	2023
<i>Phellodon castaneoleucus</i> #	TUF143026	UDB07676782		This article	Italy	2024
<i>Phellodon castaneoleucus</i> #	TUF143050	UDB07676794		This article	Italy	2024
<i>Phellodon cinereofuscus</i> *	Cui 16962	MZ225583	MZ225605	Song et al. 2021	China	
<i>Phellodon cinereofuscus</i>	Cui 16940	MZ225580	MZ225602	Song et al. 2021	Australia	
<i>Phellodon concentricus</i> *	Dai 20403	OP751004	OP751405	Song et al. 2023	China	
<i>Phellodon confluens</i> *	O-F-295821	PQ226299		Svantesson et al. 2025	Norway	
<i>Phellodon confluens</i>	EL121-21	PQ226298		Svantesson et al. 2025	Sweden	

<i>Phellodon confluens</i>	REB-262	KC571756				
<i>Phellodon crassipileatus</i> *	Cui 18533	OL449268	OL439038	Song et al. 2022	China	
<i>Phellodon crassipileatus</i>	Cui 18532	OL449267	OL439037	Song et al. 2022	China	
<i>Phellodon dititomentosus</i> *	EL186-14	PQ226306		Svantesson et al. 2025	Sweden	
<i>Phellodon dititomentosus</i>	EB531-11	PQ226307		Svantesson et al. 2025	Norway	
<i>Phellodon frondosoniger</i> *	K-M001436232	PQ226316		Svantesson et al. 2025	Great Britain	
<i>Phellodon frondosoniger</i>	EL164-19	PQ226314		Svantesson et al. 2025	Sweden	
<i>Phellodon fuligineoalbus</i>	EL400-13	MK602708		Larsson et al. 2019	Sweden	
<i>Phellodon fuligineoalbus</i>	K-M000040057	EU784181		Brock et al. 2009	-	
<i>Phellodon griseofuscus</i> *	Cui 18561	OL449266	OL439036	Song et al. 2022	China	
<i>Phellodon griseofuscus</i>	Cui 18544	OL449265	OL439035	Song et al. 2022	China	
<i>Phellodon henanensis</i> *	Chen 463	OP751002	-	Song et al. 2023	China	
<i>Phellodon henanensis</i>	Chen 465	OP751003	OP751404	Song et al. 2023	China	
<i>Phellodon melaleucus s. str.</i> **	EL253-10	PQ226322		Svantesson et al. 2025	Sweden	
<i>Phellodon melaleucus s. str.</i>	Cui 18614	OL449262	OL439032	Song et al. 2022	China	
<i>Phellodon melaleucus s. str.</i>	TUF108087	UDB018471		-	Canada	
<i>Phellodon melilotinus</i> **	SS758	PQ226345		Svantesson et al. 2025	Sweden	
<i>Phellodon melilotinus</i>	TAAM152713	UDB000288	AY586694	Larsson et al. 2004	Estonia	
<i>Phellodon niger s. str.</i> **	MA266-23	PQ226357		Svantesson et al. 2025	Sweden	
<i>Phellodon niger s. str.</i>	EL189-15	PQ226346		Svantesson et al. 2025	Norway	
<i>Phellodon perchocolatus</i> *	Cui 18536	OL449260	OL439030	Song et al. 2022	China	
<i>Phellodon perchocolatus</i>	Cui 18534	OL449259	OL439029	Song et al. 2022	China	
<i>Phellodon secretus</i> *	Niemela7460	MH118170	UDB018571	Zmitrovich et al. 2018	Finland	
<i>Phellodon secretus</i>	K-M001442134	PQ226362		Svantesson et al. 2025	Great Britain	
<i>Phellodon stramineus</i> *	Cui 16959	MZ225588	MZ225610	Song et al. 2021	China	
<i>Phellodon stramineus</i>	Cui 16942	MZ225585	MZ225607	Song et al. 2021	China	

<i>Phellodon subconfluens</i> *	Yuan 11123	MK677464		Mu et al. 2019	China	
<i>Phellodon subconfluens</i>	Yuan 11150	MK677465		Mu et al. 2019	China	
<i>Phellodon subgriseofuscus</i> *	Dai 18993	OP751001	OP751403	Song et al. 2023	China	
<i>Phellodon subgriseofuscus</i>	Dai 18992	OP751000		Song et al. 2023	China	
<i>Phellodon tomentosus s. str</i> **	SS600	PQ226370		Svantesson et al. 2025	Sweden	
<i>Phellodon tomentosus s. str</i>	TUF115111	UDB018501		-	Mexico	
<i>Phellodon violascens</i>	RGC14-033	MH310793	PQ226376	Wurzbacher et al. 2019	Sweden	
<i>Phellodon violascens</i>	MVijanen130902	MK602709		Larsson et al. 2019	Finland	
<i>Phellodon yunnanensis</i> *	Cui 17129	MZ225594	MZ225614	Song et al. 2021	China	
<i>Phellodon yunnanensis</i>	Cui 17097	MZ225593	MZ225613	Song et al. 2021	China	

¹Accession IDs from sequences originating from the UNITE database start with the letters UDB, the remaining sequences originate from the INSD database. Sequences from ITS and LSU were combined before phylogenetic analysis.

Taxons followed by an * indicate holotype specimens, by ** epitype specimens.

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