

Table S2: ITS and LSU nrDNA sequences of *Crepidotus* and of the outgroup used in the phylogenetic analysis. Sequences obtained in this study are in bold. Full citations of published sources are bellow.

Taxon	Specimen voucher / isolate	Country of origin	GenBank no. ITS	GenBank no. LSU	Sources
<i>C. aureus</i>	OKM27300	Puerto Rico	-	AF205685	Aime (1999)
<i>C. alabamensis</i>	MCA778	USA	-	AF367960	Aime, M.C. (unpubl.)
<i>C. albolanatus</i>	PDD 72865 (holotype)	New Zealand	NR159820	-	Horak (2018)
<i>C. amygdalosporus</i>	OKM 26740	USA (Virginia)	-	AF205678	Aime (1999)
	MCA258	USA (Virginia)	-	AF205675	Aime (1999)
<i>C. antillarum</i>	OKM26827	Dominican Republic	-	AF205680	Aime (1999)
<i>C. applanatus</i>	SLO 2551	Slovakia	OM832526	OM832560	This study
	SLO 2534	Slovakia	OM832521	OM832556	This study
	SLO 2537	Slovakia	OM832522	OM832557	This study
	SLO 2539	Slovakia	OM832523	OM832558	This study
	SLO 2533	Slovakia	OM832524	OM832555	This study
	SLO 2528	Slovakia	OM832520	OM832554	This study
	SLO 2547	Slovakia	OM832525	OM832559	This study
	SLO 2581	Norway	OM832528	OM832561	This study
	WU 29809	Germany	KF879613	-	Jančovičová et al. (2014)
	WU 29794	Austria	KF879614	-	Jančovičová et al. (2014)
	SLO 1821	Slovakia	MF621028	-	Jančovičová et al. (2017)
	SLO 1492	Slovakia	MF621029	-	Jančovičová et al. (2017)
	KA12-0350	Republic of Korea	KR673425	-	Kim et al. (2015)
	KA12-0390	Republic of Korea	KR673447	-	Kim et al. (2015)
	KA12-1370	Republic of Korea	KR673581	-	Kim et al. (2015)
	KA13-0932	Republic of Korea	KR673659	-	Kim et al. (2015)
	BIOUG24046-F04	Canada (Ontario)	KT695357	-	Telfer (2015)
	TENN 61392 clone C3	USA (Tennessee)	FJ596803	-	Hughes et al. (2009)
	NAMA 2015-353	USA (North Carolina)	MH910575	-	Russell, S.D.; Rojas, J.A.;
	Mushroom Observer # 247314				Vilgalys, R. (unpubl.)
	D93-F12-ITS4_K23.ab1	USA (Arkansas)	MN826231	-	Alshammari, N.I.; Stephenson, S.L. (unpubl.)
	D93-F6-ITS1_K11.ab1	USA (Arkansas)	MN826230	-	Alshammari, N.I.; Stephenson, S.L. (unpubl.)
	MHHNU 31061	China	MK250928	-	Chen, Z.H.; Zhang, P.; Li, S.N. (unpubl.)
	PUL F27036	USA (Wisconsin)	MW448624	-	Dirks, A.C. (unpubl.)
	180524-H06	Republic of Korea	MN082534	-	Cho, J.-H.; An, G.-H.; Han, J.-G. (unpubl.)
	420526MF0689	China	-	MG712368	Wang, R.; Zhang, X., Yan, S.Z.;

	420526MF0534	China	-	MH141341	Chen, S.L. (unpubl.) Wang, R.; Zhang, X., Yan, S.Z.; Chen, S.L. (unpubl.)
	TM03_415	Canada	-	EU522804	Porter et al. (2008)
	MCA 170	USA (Virginia)	-	AF205694	Aime (1999)
<i>C. applanatus</i> var. <i>globigera</i>	MCA 188	USA (Virginia)	-	AF205673	Aime (1999)
<i>C. asiaticus</i>	TJB9995LSU (holotype)	Thailand	-	MF077336	Guzmán-Dávalos et al. (2017)
<i>C. cf. applanatus</i>	PBM717	USA (Washington)	DQ202273	AY380406	Matheny (2007) / Matheny (2005)
	Montri-173	Switzerland	MK028392	-	Hofstetter et al. (2019)
	WTU-F-073211	USA (Washington)	MT946689	-	Trudell, S.; Gordon, M. (unpubl.)
<i>C. betulae</i>	MCA384	USA (North Carolina)		AF205679	Aime (1999)
<i>C. brunnescens</i>	MICH10455 (paratype)	USA (Michigan)	-	MF621025	Jančovičová et al. (2017)
	MCA 864	USA (Virginia)	-	AF367936	Aime (2001)
<i>C. calolepis</i>	TUF118750	Estonia	UDB019553		https://unite.ut.ee
<i>C. cesatii</i>	DB3782	Hungary	-	MK277881	Varga et al. (2019)
	TUF120093	Estonia	UDB023726	-	https://unite.ut.ee
<i>C. cinnabarinus</i>	MCA387	USA (xxx)	-	AF205686	Aime (1999)
<i>C. crocophyllus</i>	SLO 2588	Slovakia	OM832530	OM832563	This study
	SLO 2433	Slovakia	OM832529	OM832562	This study
	SLO 2590	Slovakia	OM832531	OM832564	This study
	SJ1	Slovakia	-	AF367939	Aime (2001)
	KA12-0349	Republic of Korea	KR673424	-	Kim et al. (2015)
	KA12-1376	Republic of Korea	KR673586	-	Kim et al. (2015)
	KA12-1407	Republic of Korea	KR673601	-	Kim et al. (2015)
	SLO 2553	USA (North Carolina)	OM832527	-	This study
	TENN 61519 clone C1	USA (Tennessee)	FJ596821	-	Hughes et al. (2009)
	PBM3047	USA (California)	-	GQ893025	Kumar et al. (2020)
	OKM 26173	USA (Missouri)	-	AY029707	Aime (2001)
	OKM 25806	USA (Virginia)	-	AF367938	Aime (2001)
	RGT 930924/02	USA (Wisconsin)	-	AF139946	Aime (2001)
<i>C. dentatus</i>	HMJAU37097 (holotype)	China	NR173279		Ge & Bau (2020)
<i>C. distortus</i>	MCA 386	USA (Virginia)	-	AF205671	Aime (1999)
<i>C. ehrendorferi</i>	SLO 2558	Slovakia	OM832533	-	This study
	SLO 2587	Slovakia	OM832534	OM832566	This study
	SLO 707	Slovakia	OM832532	OM832565	This study
	WU 6554 (holotype)	Austria	MH780918	-	Liu et al. (2018)
	WU 20080	France	MH780919	-	Liu et al. (2018)
	PV 218	Hungary	MH780920	-	Liu et al. (2018)
<i>C. ellipsoideus</i>	G1955	USA	-	MK277883	Varga et al. (2019)
<i>C. epibryus</i>	TUF118984	Estonia	UDB023702	-	https://unite.ut.ee
	IBNR1997/0948	Russia	-	AF367934	Aime et al. (2005)

<i>C. exiguus</i>	TBGT17176 (holotype)	India	-	MK567974	Kumar et al. (2022)
<i>C. exilis</i>	TBGT17157 (holotype)	India	-	MK878548	Kumar et al. (2020)
<i>C. fragilis</i>	MCA904	USA (Virginia)	-	AF367931	Aime et al. (2005)
<i>C. fraxinicola</i>	OKM26739	USA (Washington)	-	AF205676	Aime (1999)
<i>C. globisporus</i>	TBGT17341 (holotype)	India	-	MK878540	Kumar et al. (2020)
<i>C. indicus</i>	TBGT17161 (holotype)	India	-	MG735357	Kumar et al. (2018a)
<i>C. inhonestus</i>	MCA638	Japan	-	AF205704	Moncalvo et al. (2002)
<i>C. iqbalii</i>	LAH 36654 (holotype)	Pakistan	NR173306	NG079698	Izhar et al. (2021)
<i>C. kauffmanii</i>	G1956	USA	-	MK277887	Varga et al. (2019)
<i>C. lanuginosus</i>	OKM27331	USA (Idaho)	-	AF367940	Aime & Miller (2002)
<i>C. lateralipes</i>	PDD 72508 (holotype)	New Zealand	NR159821	-	Horak (2018)
<i>C. lundelii</i>	TUF106886	Estonia	UDB015199	-	https://unite.ut.ee
	IBNR1997/0946	Russia	-	AF367941	Aime, M.C. (unpubl.)
<i>C. luteolus</i>	16834	Italy	JF907963	-	https://nature.berkeley.edu
<i>C. lutescens</i>	HMJAU 37002 (holotype)	China	NR158400	-	Ge et al. (2017)
<i>C. macedonicus</i>	PV773	Hungary	MH780921	-	Liu et al. (2018)
<i>C. malachioides</i>	SLO 2578	Slovakia	OM832538	OM832568	This study
	SLO 2391	Slovakia	OM832536	OM832567	This study
	SLO 2561	Slovakia	OM832537	-	This study
	SLO 1932	Slovakia	OM832535	-	This study
	SLO 1250 (epitype)	Slovakia	KF154019	KF154018	Jančovičová et al. (2014)
	WU 31421	Austria	KF879616	-	Jančovičová et al. (2014)
	WU 32709	Austria	KF879615	-	Jančovičová et al. (2014)
<i>C. malachius</i>	SLO 2552	Slovakia	OM832548	OM832578	This study
	SLO 1826	Slovakia	OM832539	OM832569	This study
	SLO 2548	Slovakia	OM832544	OM832577	This study
	SLO 2091	Slovakia	OM832541	OM832571	This study
	SLO 2540	Slovakia	OM832545	OM832574	This study
	SLO 2544	Slovakia	OM832547	OM832576	This study
	SLO 2530	Slovakia	OM832543	OM832573	This study
	SLO 2541	Slovakia	OM832546	OM832575	This study
	SLO 1845	Russia (Republic of Tatarstan)	OM832540	OM832570	This study
	SLO 2394	Czech Republic	OM832542	OM832572	This study
	SLO 1497	Slovakia	MF621032	-	Jančovičová et al. (2017)
	SLO 479	Slovakia	MF621033	-	Jančovičová et al. (2017)
	WU 29795	Austria	KF879618	-	Jančovičová et al. (2014)
	IBL16	Poland	MZ410645	-	Rosa-Gruszecka, A.; Hilszczanska, D.; Haidt, A.; Tereba, A.; Wrobel, M.; Stachyra, P. (unpubl.)
<i>C. malachius</i> var. <i>malachius</i>	MCA 343	USA (Virginia)	-	AF205674	Aime (1999)

	MCA 775	USA (North Carolina)	-	AY029706	Aime (2004)
<i>C. malachius</i> var. <i>trichifer</i>	MCA 719	Japan	-	AF367943	Aime (2001)
<i>C. martini</i>	MCA640	Japan	-	AF367944	Aime, M.C. (unpubl.)
<i>C. melleus</i>	MCA672	Japan	-	AF205702	Aime (1999)
<i>C. mollis</i>	DMS-9344564	Denmark	MT640263	MT640263	Leerhoei,F. and Langkjaer,E.M. (unpubl.)
	TUF120313	Estonia	UDB024710	-	https://unite.ut.ee
	NL-3003	Hungary	-	MK277890	Varga et al. (2019)
<i>C. nephrodes</i>	OKM 25896	USA (Virginia)	-	AF205693	Aime (1999)
	MCA 189	USA (Virginia)	-	AF205670	Aime (1999)
<i>C. nyssicola</i>	TJB 8699	USA (Maine)	-	AF205690	Aime (1999)
<i>C. palodensis</i>	TBGT16716 (holotype)	India	-	MH310743	Kumar et al. (2018a)
<i>C. pini</i>	SLO 2579	Slovakia	OM832550	OM832580	This study
	SLO 2550	Slovakia	OM832549	OM832579	This study
	SLO 2601	Slovakia	OM832551	-	This study
<i>C. podocarp</i>	OKM27303	Puerto Rico	-	AF205696	Aime (1999)
<i>C. pseudomollis</i>	HMJAU37125 (holotype)	China	NR173280	-	Ge & Bau (2020)
<i>C. roseus</i>	TBGT15507	India	-	MK567977	Kumar et al. (2022)
<i>C. rufidulus</i>	PDD 98272 (isotype)	New Zealand	NR159823	-	Horak (2018)
<i>C. rufofloccosus</i>	PDD 72601 (holotype)	New Zealand	NR159822	-	Horak (2018)
<i>C. sinuosus</i>	OKM26290	USA	-	AF367954	Aime, M.C. (unpubl.)
<i>Crepidotus</i> sp.	MCA 679	Japan	-	AF367952	Aime (2001)
	MCA 941	Japan	-	AF367954	Aime (2001)
	TNS B225	Japan	KF680278	-	Kasuya et al. (2014)
	TBGT15841	India	-	MK567981	Kumar, A.M.; Pradeep, C.K.; Vrinda, K.B. (unpubl.)
	MCA 442	Puerto Rico	-	AF367950	Aime (2004)
<i>C. sphaerosporus</i>	OKM27013	USA (Colorado)	-	AF205682	Aime & Miller (2002)
<i>C. stenocystis</i>	SLO 2557	Slovakia	OM832553	OM832581	This study
	SLO 481	Slovakia	OM832552	-	This study
	PRM 911279 (holotype)	Czech Republic	MF621030	MF621024	Jančovičová et al. (2017)
<i>C. striatus</i>	HMJAU37076 (holotype)	China	NR173281	-	Ge & Bau (2020)
<i>C. subverrucisporus</i>	O-F-248331	Norway	UDB037991	-	https://unite.ut.ee
<i>C. tennesseensis</i>	TENN:029144 (holotype)	USA (Tennessee)	NR119720	-	Schoch et al. (2014)
<i>C. thermophilus</i>	TJB8496	Puerto Rico	-	AF205691	Aime et al. (2002)
<i>C. tobolensis</i>	LE287655 (holotype)	Russia	NR174894	MK560762	Crous et al. (2019)
<i>C. tortus</i>	TBGT17194 (holotype)	India	-	MK462162	Kumar et al. (2022)
<i>C. trichocraspedotus</i>	HMJAU37138 (holotype)	China	NR173282	-	Ge & Bau (2020)
<i>C. uber</i>	MCA1403	USA	-	AF367961	Aime, M.C. (unpubl.)
<i>C. variabilis</i>	SLO 2018	Slovakia	MT055890	OM832583	Jančovičová et al. (2020) / This study
	SLO 2021	Slovakia	MT055889	OM832585	Jančovičová et al. (2020) / This study

	SLO 2016	Slovakia	MT055888	OM832582	study Jančovičová et al. (2020) / This study
	SLO 2423	Slovakia	MT055887	OM832584	Jančovičová et al. (2020) / This study
<i>C. versutus</i>	IBNR1997/0962	Russia	-	AF367958	Aime, M.C. (unpubl.)
<i>C. volubilis</i>	TBGT15648 (holotype)	India	-	MH310742	Kumar et al. (2018b)
<i>Simocybe phlebophora</i>	PBM3089	New Zealand	MK421963	MK421967	Matheny et al. (2020)
<i>Simocybe rhabarbarina</i>	4583-15	Italy	KT934412	KT934415	Poli et al. (2015)
<i>Simocybe</i> sp.	PBM3031	USA (Tennessee)	GQ893023	GQ892979	Matheny et al. (2020)

References to Supplementary Table S2

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