

## Supplementary Tables

Table S1. Strains used for phylogenetic tree construction in Apiosporaceae (*Arthrinium* and *Nigrospora*).

Species	Strain	GenBank Accession No.				Reference
		ITS	LSU	TUB2	TEF1- $\alpha$	
<i>Apiospora aquaticum</i>	<b>MFLU 18-1628</b>	MK828608	MK835806	–	–	Luo et al. 2019
<i>Apiospora arundinis</i>	CBS 124788	KF144885	KF144929	KF144975	KF145017	Crous and Groenewald 2013
	LC4951	KY494698	KY494774	KY705168	KY705097	Wang et al. 2018
<i>Apiospora aureum</i>	<b>CBS 244.83</b>	AB220251	KF144935	KF144981	KF145023	Crous and Groenewald 2013
<i>Apiospora balearicum</i>	<b>CBS 145129</b>	MK014869	MK014836	MK017975	–	Pintos et al. 2019
<i>Apiospora bambusae</i>	<b>CGMCC 3.18335</b>	KY494718	KY494794	KY705186	KY806204	Wang et al. 2018
	LC7107	KY494719	KY494795	KY705187	KY705117	Wang et al. 2018
<i>Apiospora bambusicola</i>	<b>MFLUCC 20-0144</b>	MW173030	MW173087	–	MW183262	Tang et al. 2020
<i>Apiospora camelliae-sinensis</i>	<b>CGMCC 3.18333</b>	KY494704	KY494780	KY705173	KY705103	Wang et al. 2018
	LC8181	KY494761	KY494837	KY705229	KY705157	Wang et al. 2018
<i>Apiospora chinense</i>	<b>CFCC 53036</b>	MK819291	–	MK818547	MK818545	Jiang et al. 2020
<i>Apiospora chromolaenae</i>	<b>MFLUCC 17-1505</b>	MT214342	MT214436	–	–	Mapook et al. 2020
<i>Apiospora dendrobii</i>	<b>MFLUCC 14-0152</b>	MZ463151	MZ463192			This study
<i>Apiospora descalsii</i>	<b>CBS 145130</b>	MK014870	MK014837	MK017976	–	Pintos et al. 2019
<i>Apiospora dichotomanthi</i>	<b>CGMCC 3.18332</b>	KY494697	KY494773	KY705167	KY705096	Wang et al. 2018
	LC8175	KY494755	KY494831	KY705223	KY705151	Wang et al. 2018
<i>Apiospora esporlense</i>	<b>CBS 145136</b>	MK014878	MK014845	MK017983	MK017954	Pintos et al. 2019

<i>Apiospora euphorbiae</i>	IMI 285638b	AB220241	AB220335	AB220288	–	Ogawa et al. 2005
<i>Apiospora gaoyouense</i>	<b>CFCC 52301</b>	MH197124	–	MH236789	MH236793	Jiang et al. 2020
<i>Apiospora garethjonesii</i>	KUMCC 16-0202	KY356086	KY356091	–	–	Dai et al. 2016
<i>Apiospora guizhouense</i>	<b>CGMCC3.18334</b>	KY494709	KY494785	KY705178	KY705108	Wang et al. 2018
	LC5318	KY494708	KY494784	KY705177	KY705107	Wang et al. 2018
<i>Arthrinium gutiae</i>	<b>CBS 135835</b>	KR011352	MH877577	KR011350	KR011351	Kajale et al. 2015
<i>Apiospora hispanicum</i>	<b>IMI 326877</b>	AB220242	AB220336	AB220289	–	Ogawa et al. 2005
<i>Apiospora hydei</i>	<b>CBS 114990</b>	KF144890	KF144936	KF144982	KF145024	Crous and Groenewald 2013
	LC7103	KY494715	KY494791	KY705183	KY705114	Crous and Groenewald 2013
<i>Apiospora hyphopodii</i>	<b>MFLUCC 15-003</b>	KR069110	KY356093	–	–	Dai et al. 2016
<i>Apiospora hysterinum</i>	ICMP 6889	MK014874	MK014841	MK017980	MK017951	Pintos et al. 2019
<i>Apiospora ibericum</i>	<b>CBS 145137</b>	MK014879	MK014846	MK017984	–	Pintos et al. 2019
<i>Apiospora italicum</i>	<b>AP221017</b>	MK014880	MK014847	MK017985	MK017956	Pintos et al. 2019
<i>Apiospora jatrophae</i>	<b>MMI 00052</b>	JQ246355	–	–	–	Sharma et al. 2012
<i>Apiospora jiangxiense</i>	<b>CGMCC 3.18381</b>	KY494693	KY494769	KY705163	KY705092	Wang et al. 2018
	LC4578	KY494694	KY494770	KY705164	KY705093	Wang et al. 2018
<i>Apiospora kogelbergense</i>	<b>CBS 113333</b>	KF144892	KF144938	KF144984	KF145026	Crous and Groenewald 2013
	CBS 113332	KF144891	KF144937	KF144983	KF145025	Crous and Groenewald 2013
<i>Apiospora locuta-pollinis</i>	<b>LC11683</b>	MF939595	–	MF939622	MF939616	Zhao et al. 2017
<i>Apiospora longistromum</i>	<b>MFLUCC 11-0481</b>	KU940141	KU863129	–	–	Dai et al. 2016
	MFLUCC 11-0479	KU940142	KU863130	–	–	Dai et al. 2016

<i>Apiospora malaysianum</i>	<b>CBS 102053</b>	KF144896	KF144942	KF144988	KF145030	Crous and Groenewald 2013
<i>Apiospora marii</i>	<b>CBS 497.90</b>	AB220252	KF144947	KF144993	KF145035	Ogawa et al. 2005
<i>Apiospora mediterranei</i>	<b>IMI 326875</b>	AB220243	AB220337	AB220290	–	Ogawa et al. 2005
<i>Apiospora mytilomorphum</i>	<b>DAOM 214595</b>	KY494685	–	–	–	Wang et al. 2018
<i>Apiospora neogarethjonesii</i>	<b>KUMCC 18-0192</b>	MK070897	MK070898	–	–	Dai et al. 2019
<i>Apiospora neosubglobosum</i>	<b>KUMCC 16-0203</b>	KY356090	KY356095	–	–	Dai et al. 2016
	JHB006	KY356089	KY356094	–	–	Dai et al. 2016
<i>Apiospora obovatum</i>	<b>CGMCC 3.18331</b>		–	–	–	Wang et al. 2018
	LC8177	KY494757	KY494833	KY705226	KY705154	Wang et al. 2018
<i>Apiospora ovatum</i>	<b>CBS 115042</b>	KF144903	KF144950	KF144995	KF145037	Crous and Groenewald 2013
<i>Apiospora paraphaeospermum</i>	MFLUCC 13-0644	KX822128	KX822124	–	–	Senanayake et al. 2016
<i>Apiospora phaeospermum</i>	CBS 114314	KF144904	KF144951	KF144996	KF145038	Crous and Groenewald 2013
<i>Apiospora phaeospermum</i>	CBS 114315	KF144905	KF144952	KF144997	KF145039	Crous and Groenewald 2013
<i>Apiospora phragmitis</i>	<b>CPC 18900</b>	KF144909	KF144956	KF145001	KF145043	Crous and Groenewald 2013
<i>Apiospora piptatheri</i>	<b>CBS 145149</b>	MK014893	MK014860	–	–	Pintos et al. 2019
<i>Apiospora phyllostachium</i>	<b>MFLUCC 18-1101</b>	MK351842	MH368077	MK291949	MK340918	Yang et al. 2019
<i>Apiospora pseudoparenchymaticum</i>	<b>LC7234</b>	KY494743	KY494819	KY705211	KY705139	Wang et al. 2018
	LC8173	KY494753	KY494829	KY705221	KY705149	Wang et al. 2018
<i>Apiospora pseudosinense</i>	<b>CPC 21546</b>	KF144910	KF144957	–	KF145044	Crous and Groenewald 2013

<i>Apiospora pseudospegazzinii</i>	<b>CBS 102052</b>	KF144911	KF144958	KF145002	KF145045	Crous and Groenewald 2013
<i>Apiospora pterospermum</i>	<b>CPC 20193</b>	KF144913	KF144960	KF145004	KF145046	Crous and Groenewald 2013
<i>Apiospora qinlingense</i>	<b>CFCC 52303</b>	MH197120	–	MH236791	MH236795	Jiang et al. 2020
<i>Apiospora rasikravindrae</i>	<b>NFCCI 2144</b>	JF326454	–	–	–	Schoch et al. 2014
	LC5449	KY494713	KY494789	KY705182	KY705112	Wang et al. 2018
<i>Apiospora sacchari</i>	CBS 212.30	KF144916	AB220351	KF145005	KF145047	Crous and Groenewald 2013
	CBS 301.49	KF144917	AB220352	KF145006	KF145048	Crous and Groenewald 2013
<i>Apiospora saccharicola</i>	CBS 334.86	AB220257	KF144967	KF145010	KF145052	Crous and Groenewald 2013
	CBS 463.83	KF144921	KF144968	KF145011	KF145053	Crous and Groenewald 2013
<i>Apiospora serenense</i>	<b>IMI 326869</b>	AB220250	AB220344	AB220297	–	Ogawa et al. 2005
<i>Apiospora setostromum</i>	<b>KUMCC 19-0217</b>	MN528012	MN528011	–	MN527357	Jiang et al. 2019
<i>Apiospora subglobosum</i>	<b>MFLUCC 11-0397</b>	KR069112	KR069113	–	–	Senanayake et al. 2015
<i>Apiospora subroseum</i>	<b>CGMCC3.18337</b>	KY494752	KY494828	KY705220	KY705148	Wang et al. 2018
	LC7291	KY494751	KY494827	KY705219	KY705147	Wang et al. 2018
<i>Apiospora thailandicum</i>	<b>MFLUCC 15-0202</b>	KU940145	KU863133	–	–	Dai et al. 2016
	LC5630	KY494714	KY494790	KY806200	KY705113	Wang et al. 2018
<i>Apiospora vietnamensis</i>	<b>IMI 99670</b>	KX986096	KX986111	KY019466	–	Wang et al. 2018
<i>Apiospora xenocordella</i>	<b>CBS 478.86</b>	KF144925	–	KF145013	KF145055	Crous and Groenewald 2013

<i>Apiospora xenocordella</i>	CBS 595.66	KF144926	KF144971	–	–	Crous and Groenewald 2013
<i>Apiospora yunnanum</i>	<b>MFLUCC 15-0002</b>	KU940147	KU863135	–	–	Dai et al. 2016
<i>Arthrinium austriacum</i>	GZU 345006	MW208929	MW208860	–	–	Pintos and Alvarado 2021
<i>Arthrinium caricicola</i>	AP23518	MK014871	MK014838	MK017977	MK017948	Pintos et al. 2019
<i>Arthrinium crenatum</i>	<b>CBS 146353</b>	MW208931	MW208861	MW22192 3	MW221917	Pintos and Alvarado 2021
<i>Arthrinium curvatum</i> var. <i>curvatum</i>	AG191036	MW208935	MW208862	MW22192 4	–	Pintos and Alvarado 2021
<i>Arthrinium curvatum</i> var. <i>minus</i>	AP25418	MK014872	MK014839	MK017978	MK017949	Pintos et al. 2019
<i>Arthrinium japonicum</i>	IFO 31098	AB220264	AB220358	AB220311	–	Ogawa et al. 2005
<i>Arthrinium luzulae</i>	AP7619-3	MW208937	MW208863	MW22192 5	MW221919	Pintos and Alvarado 2021
<i>Arthrinium morthieri</i>	GZU 345043	MW208938	MW208864	MW22192 6	MW221920	Pintos and Alvarado 2021
<i>Arthrinium sphaerospermum</i>	AP25619	MW208943	MW208865	–	–	Pintos and Alvarado 2021
<i>Arthrinium sporophleoides</i>	GZU 345102	MW208944	MW208866	–	MW208866	Pintos and Alvarado 2021
<i>Arthrinium sporophleum</i>	AG19067	MW208945	–	MW22192 8	MW221921	Pintos and Alvarado 2021
<i>Arthrinium trachycarpum</i>	<b>CFCC 53038</b>	MK301098	–	MK303394	MK303396	Jiang et al. 2020
<i>Arthrinium urticae</i>	IMI 326344	AB220245	AB220339	AB220292	–	Ogawa et al. 2005
<i>Nigrospora aurantiaca</i>	<b>CGMCC 3.18130</b>	KX986064	KX986098	KY019465	KY019295	Wang et al. 2018
	LC7034	KX986093	–	KY019598	KY019394	Wang et al. 2018

<i>Nigrospora bambusae</i>	<b>CGMCC 3.18327</b>	KY385307	–	KY385319	KY385313	Dai et al. 2016
	LC7244	KY385306	–	KY385320	KY385314	Wang et al. 2017
<i>Nigrospora camelliae-sinensis</i>	<b>CGMCC 3.18125</b>	KX985986	KX986103	KY019460	KY019293	Wang et al. 2017
	LC4460	KX986015	–	KY019538	KY019353	Wang et al. 2017
<i>Nigrospora chinensis</i>	<b>CGMCC 3.18127</b>	KX986023	KX986107	KY019462	KY019422	Wang et al. 2017
	LC4593	KX986024	–	KY019546	KY019443	Wang et al. 2017
	MFLUCC 14-0109	MZ463152	MZ463193	–		This study
	MFLUCC 18-1215	MZ463150	MZ463191	–		This study
<i>Nigrospora gorlenkoana</i>	<b>CBS 480.73</b>	KX986048	KX986109	KY019456	KY019420	Wang et al. 2017
<i>Nigrospora guilinensis</i>	LC7301	KX986063	–	KY019608	KY019404	Wang et al. 2017
<i>Nigrospora hainanensis</i>	<b>CGMCC 3.18129</b>	KX986091	KX986112	KY019464	KY019415	Wang et al. 2017
	LC6979	KX986079	–	KY019586	KY019416	Wang et al. 2017
<i>Nigrospora laticolonia</i>	<b>CGMCC 3.18123</b>	KX985978	KX986105	KY019458	KY019291	Wang et al. 2017
	LC7009	KX986087	–	KY019594	KY019454	Wang et al. 2017
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<i>Nigrospora musae</i>	<b>CBS 319.34</b>	KX986076	KX986110	KY019455	KY019419	Wang et al. 2017
	LC6385	KX986042	–	KY019567	KY019371	Wang et al. 2017
<i>Nigrospora oryzae</i>	LC6759	KX986054	–	KY019572	KY019374	Wang et al. 2017
	LC6760	KX986055	–	KY019573	KY019375	Wang et al. 2017
<i>Nigrospora osmanthi</i>	<b>CGMCC 3.18126</b>	KX986010	KX986106	KY019461	KY019421	Wang et al. 2017
	LC4487	KX986017	–	KY019540	KY019438	Wang et al. 2017
<i>Nigrospora pyriformis</i>	<b>CGMCC 3.18122</b>	KX985940	KX986100	KY019457	KY019290	Wang et al. 2017
	LC2688	KX985941	–	KY019468	KY019297	Wang et al. 2017
<i>Nigrospora rubi</i>	<b>CGMCC 3.18326</b>	KX985948	KX986102	KY019475	KY019302	Wang et al. 2017
<i>Nigrospora sphaerica</i>	<b>LC13523</b>	MN215807	–	MN329970	MN264046	Wang et al. 2017

	LC7295	KX985933	–	KY019603	KY019398	Wang et al. 2017
	GZAC O37S13	MZ463153	–	–		
<i>Nigrospora</i> sp. 1	LC2725	KX985960	KX986104	KY019487	KY019313	Wang et al. 2017
<i>Nigrospora</i> sp. 1	LC4566	KX986022	–	KY019545	KY019354	Raza et al. 2019
<i>Nigrospora</i> sp. 2	LC6704	KX986047	KX986108	KY019571	KY019373	Wang et al. 2017
<i>Nigrospora vesicularis</i>	<b>CGMCC 3.18128</b>	KX986088	KX986099	KY019463	KY019294	Wang et al. 2017
	LC0322	KX985939	–	KY019467	KY019296	Wang et al. 2017
<i>Nigrospora zimmermanii</i>	<b>CBS 290.62</b>	KY385309	–	KY385317	KY385311	Wang et al. 2017
	CBS 984.69	KY385310	–	KY385322	KY385316	Wang et al. 2017
<i>Pseudomassaria corni</i>	MFLUCC 14-0544	KR092791	–	–	–	Wang et al. 2017
<i>Pseudomassaria chondrospora</i>	MFLUCC 14-0545	KR092790	KR092779	–	–	Wang et al. 2017
<i>Pseudomassaria sepincoliformis</i>	CBS 129022	JF440984	–	–	–	Wang et al. 2017

Table S2. Strains used for phylogenetic tree construction in related Xylariaceae

Species	Strains	GenBank Accession No.				Reference
		ITS	LSU	TUB2	RPB2	
<i>Alloanthostomella rubicola</i>	MFLUCC 16-0479	KX533455	KX533456	KX789494	KX789493	Bitzer et al. 2008
<i>Amphirosellinia fushanensis</i>	<b>91111209 (HAST)</b>	NR153514	—	GQ495950	GQ848339	Hsieh et al. 2010
<i>Amphirosellinia nigrospora</i>	<b>91092308 (HAST)</b>	NR153513	—	GQ495951	GQ848340	Hsieh et al. 2010
<i>Annulohypoxyylon annulatum</i>	<b>CBS 140775</b>	NR153579	KY610418	KX376353	KY624263	Sir et al. 2016
<i>Annulohypoxyylon areolatum</i>	<b>MFLUCC 14-1233</b>	KX376327	—	KX376344	—	Kuhnert et al. 2017
<i>Annulohypoxyylon atroroseum</i>	ATCC 76081	AF201712	KY610422	DQ840083	KY624233	Wendt et al. 2018

<i>Annulohypoxyylon bahnpheadengense</i>	STMA 13115	KX376338	—	KX376347	—	Kuhnert et al. 2017
<i>Annulohypoxyylon cf. truncatum</i>	EKTX140201	KX376331	—	KX376351	—	Kuhnert et al. 2017
<i>Annulohypoxyylon elevatidiscus</i>	<b>BCRC34014</b>	—	—	AY951656	—	Hsieh et al. 2005
<i>Annulohypoxyylon fulvum</i>	<b>MUCL 54617</b>	KX376336	—	KX376355	—	Kuhnert et al. 2017
<i>Annulohypoxyylon ilanense</i>	YMJ 37	—	—	AY951657	—	Hsieh et al. 2005
<i>Annulohypoxyylon leptascum</i>	MFLUCC 13-0587	KU604576	—	KU604580	—	Sir et al. 2016
<i>Annulohypoxyylon massivum</i>	<b>MUCL 47218</b>	AM749938	—	KC977276	—	Bitzer et al. 2008
<i>Annulohypoxyylon michelianum</i>	CBS 119993	KX376320	KY610423	KX271239	KY624234	Wendt et al. 2018
<i>Annulohypoxyylon microdiscum</i>	BCRC34018	EF026137	—	—	AY951660	Kuhnert et al. 2017
<i>Annulohypoxyylon moniliformis</i>	<b>MFLUCC 18-1214</b>	MZ463121	—	MZ998970	—	This study
<i>Annulohypoxyylon moriforme</i>	CBS 123579	KU683751	KY610425	KX271261	KU684279	U'Ren et al. 2016
<i>Annulohypoxyylon nitens</i>	<b>MFLUCC 12-0823</b>	KJ934991	KJ934992	KJ934993	KJ934994	Daranagama et al. 2015
<i>Annulohypoxyylon nouraguense</i>	<b>MUCL 54607</b>	KX376335	—	KX376348	—	Kuhnert et al. 2017
<i>Annulohypoxyylon purpureopigmentum</i>	MUCL 54616	KC968942	—	KC977306	—	Kuhnert et al. 2014
<i>Annulohypoxyylon squamulosum</i>	<b>BCRC34022</b>	EF026139	—	AY951665	—	Hsieh et al. 2005
<i>Annulohypoxyylon stygium</i>	MUCL 54601	KY610409	KY610475	KX271263	KY624292	Wendt et al. 2018
<i>Annulohypoxyylon substygium</i>	STMA 14066	KU604575	—	KU159526	—	Sir et al. 2016
<i>Annulohypoxyylon thailandicum</i>	<b>MFLUCC 13-0118</b>	KP744434	KP744476	KX376349	—	Liu et al. 2015
<i>Annulohypoxyylon truncatum</i>	<b>CBS 140778</b>	NR153580	KY610419	KX376352	KY624277	Wendt et al. 2018
	EKTX14006	KX376329	—	KX376352	—	Kuhnert et al. 2017



<i>Annulohypoxyton urceolatum</i>	YMJ 92090413	—	—	AY951670	—	Hsieh et al. 2005
<i>Annulohypoxyton violaceopigmentum</i>	<b>MFLUCC 14-1225</b>	KX376326	—	KX376343	—	Kuhnert et al. 2017
<i>Annulohypoxyton viridistratum</i>	<b>MFLUCC 14-1224</b>	KX376325	—	KX376342	—	Kuhnert et al. 2017
<i>Annulohypoxyton yungensis</i>	STMA 14049	KX376324	—	KX376341	—	Kuhnert et al. 2017
<i>Anthocanalis sparti</i>	<b>MFLUCC 14-0557</b>	KP297395	KP340537	KP406606	KP340523	Daranagama et al. 2015
<i>Anthostomella eucalyptorum</i>	CBS 120036	DQ890026	—	—	—	Crous et al. 2006
<i>Anthostomella helicofissa</i>	<b>MFLUCC 14-0173</b>	KP297406	—	KP406617	KP340534	Daranagama et al. 2015
<i>Anthostomelloides krabiensis</i>	<b>MFLUCC 15-0678</b>	KX305927	KX305928	—	KX305929	Tibpromma et al. 2017
<i>Anthostomelloides leucospermi</i>	<b>CBS 110126</b>	NR153510	—	—	—	Marincowitz et al. 2008
<i>Astrocystis concavispora</i>	<b>MFLUCC 14-0174</b>	KP297404	KP340545	KP406615	KP340532	Daranagama et al. 2015
<i>Barrmaelia macrospora</i>	BM	KC774566	—	MF489014	MF488995	Voglmayr et al. 2017
<i>Biscogniauxia arima</i>	<b>WSP 122</b>	EF026150	—	AY951672	GQ304736	Hsieh et al.2010
<i>Biscogniauxia atropunctata</i>	YMJ 128	JX507799	—	AY951673	JX507778	Hsieh et al. 2012
<i>Biscogniauxia marginata</i>	<b>MFLUCC 12-0740</b>	KJ958407	KJ958408	KJ958406	KJ958409	Daranagama et al. 2015
<i>Biscogniauxia nummularia</i>	<b>MUCL 51395</b>	KY610382	KY610427	KX271241	KY624236	Wendt et al. 2018
<i>Biscogniauxia repanda</i>	ATCC 62606	KY610383	KY610428	KX271242	KY624237	Wendt et al. 2018
<i>Brunnelperidium gracilentum</i>	<b>MFLUCC 14-0011</b>	KP297400	KP340542	KP406611	KP340528	Daranagama et al. 2015
<i>Brunneiperidium involucreatum</i>	<b>MFLUCC 14-0009</b>	KP297399	KP340541	KP406610	KP340527	Daranagama et al. 2015
<i>Camillea obularia</i>	ATCC 28093	KY610384	KY610429	KX271243	KY624238	Wendt et al. 2018
<i>Camillea tinctor</i>	YMJ 363	JX507806	—	JX507795	JX507790	Wendt et al. 2018
<i>Clypeosphaeria mamillana</i>	<b>CBS 140735</b>	KT949897	MH554225	MH704637	MF489001	Jaklitsch et al. 2016
<i>Collodiscula bambusae</i>	<b>GZU H0102</b>	KP054279	KP054280	KP276674	KP276675	Li et al. 2015
<i>Collodiscula fangjingshanensis</i>	<b>GZUH0109</b>	KR002590	NG058915	KR002589	KR002592	Li et al. 2015

<i>Collodiscula japonica</i>	CBS 124266	JF440974	MH874889	KY624316	KY624273	Wendt et al. 2018
<i>Daldinia andina</i>	<b>CBS 114736</b>	KU684017	KY610430	KC977259	KY624239	Wendt et al. 2018
<i>Daldinia bambusicola</i>	<b>CBS 122872</b>	NR152464	KY610431	AY951688	KY624241	Wendt et al. 2018
	MFLUCC 11-0605	KU940155	KU863143	—	KU940181	Dai et al. 2016
<i>Daldinia brachysperma</i>	BCC 33676	MN153854	MN153871	MN172205	—	Wongkanoun et al. 2019
<i>Daldinia caldariorum</i>	MUCL 49211	AM749934	KY610433	KC977282	KY624242	Wendt et al. 2018
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<i>Daldinia Chiangdaoensis</i>	BCC 88221	MN153851	MN153868	MN172198	MN172209	Wongkanoun et al. 2019
	<b>BCC 88220</b>	MN153850	MN153867	MN172197	MN172208	Wongkanoun et al. 2019
<i>Daldinia childiae</i>	<b>CBS 122881</b>	MH863249	MH874773	KU684129	KU684290	U'Ren et al. 2016
<i>Daldinia concentrica</i>	CBS 113277	AY616683	KY610434	KC977274	KY624243	Wendt et al. 2018
<i>Daldinia decipiens</i>	<b>CBS 122879</b>	MH863247	MH874771	AY951694	—	Vu et al. 2019
<i>Daldinia dennisii</i>	<b>CBS 114741</b>	MH862968	MH874530	KC977262	KY624244	Wendt et al. 2018
<i>Daldinia eschscholtzii</i>	MUCL 45435	JX658484	KY610437	KC977266	KY624246	Wendt et al. 2018
<i>Daldinia flavogranulata</i>	BCC 89365	MN153857	MN153874	MN172201	MN172212	Wongkanoun et al. 2019
<i>Daldinia flavogranulata</i>	<b>BCC 89363</b>	MN153856	MN153873	MN172200	MN172211	Wongkanoun et al. 2019
<i>Daldinia loculatoides</i>	<b>CBS 113279</b>	MH862918	MH874491	KX271246	KY624247	Wendt et al. 2018
<i>Daldinia macaronesica</i>	<b>CBS 113040</b>	JX658504	KY610477	KX271266	KY624294	Wendt et al. 2018
<i>Daldinia petriniae</i>	<b>MUCL 49214</b>	AM749937	KY610439	KC977261	KY624248	Wendt et al. 2018
<i>Daldinia phadaengensis</i>	BCC 89350	MN153853	MN153870	MN172196	MN172207	Wongkanoun et al. 2019
	<b>BCC 89349</b>	MN153852	MN153869	MN172195	MN172206	Wongkanoun et al. 2019
<i>Daldinia placentiformis</i>	MUCL 47603	AM749921	KY610440	KC977278	KY624249	Wendt et al. 2018
<i>Daldinia pyrenaica</i>	MUCL 53969	KY610413	KY610413	KY624312	KY624274	Wendt et al. 2018
<i>Daldinia singularis</i>	YMJ 120	—	—	AY951700	—	Hsieh et al. 2005
<i>Daldinia steglichii</i>	<b>MUCL 43512</b>	KY610399	KY610479	KX271269	KY624250	Wendt et al. 2018

<i>Daldinia theissenii</i>	<b>CBS 113044</b>	KY610388	KY610441	KX271247	KY624251	Wendt et al. 2018
<i>Daldinia vernicosa</i>	<b>CBS 119316</b>	NR152501	KY610442	KC977260	KY624252	Wendt et al. 2018
<i>Diatrype disciformis</i>	<b>MFLUCC 15-0538</b>	AJ390410	KR092784	—	—	Senanayake et al. 2015
<i>Durotheca comedens</i>	<b>YMJ 90071615</b>	EF026128	—	EF025613	JX507793	Ju et al. 2003
<i>Durotheca crateriformis</i>	<b>GMBC0205</b>	MH645426	MH645425	MH049441	MH645427	Long et al. 2019
<i>Durotheca depressa</i>	<b>BCC23016</b>	—	—	GQ160491	—	Læssøe et al. 2013
<i>Durotheca eurima</i>	<b>GMBC0060</b>	MH645419	MH645421	MH049437	MH645422	Long et al. 2019
<i>Durotheca guizhouensis</i>	GMBC0206	MH645429	MH645430	MH049446	MH645431	Long et al. 2019
<i>Durotheca rogersii</i>	<b>GMBC0204</b>	MH645433	MH645434	MH049449	MH645435	Long et al. 2019
<i>Euepixylon sphaeriosomum</i>	<b>JDR 261</b>	GU292821	—	GQ470224	GQ844774.1	Hsieh et al.2010
<i>Entoleuca mammata</i>	JDR 100	GU300072	—	GQ470230	GQ844782	Hsieh et al.2010
<i>Entosordaria perfidiosa</i>	BW3	MF488992	—	MF489020	MF489002	Voglmayr et al. 2017
<i>Graphostroma platystoma</i>	<b>CBS 270.87</b>	JX658535	DQ836906	HG934108	KY624296	Wendt et al. 2018
<i>Hypocreodendron sanguineum</i>	<b>JDR 169</b>	GU322433	—	GQ487710	GQ844819	Hsieh et al.2010
<i>Hypomontagnella barbarensis</i>	<b>STMA 14081</b>	MK131720	MK131718	MK135891	MK135893	Lambert et al. 2019
<i>Hypomontagnella monticulosum</i>	<b>MUCL 54604</b>	KY610404	KY610487	KX271273	KY624305	Wendt et al. 2018
<i>Hypomontagnella submonticulosum</i>	CBS 115280	JX658449	KY610457	KC977267	KY624226	Wendt et al. 2018
<i>Hypoxydon addis</i>	<b>MUCL 52797</b>	KC968931	—	KC977287	—	Kuhnert et al. 2017
<i>Hypoxydon aeruginosum</i>	<b>MUCL 54620</b>	KC968941	—	KC977305	—	Kuhnert et al. 2014
<i>Hypoxydon argillaceum</i>	CBS 527.63	KU683764	—	KU684187	KU684283	U'Ren et al. 2016
<i>Hypoxydon aff. rubiginosum</i>	<b>MUCL 57724</b>	MT214999	MT214994	MT212241	MT212237	Pourmoghaddam et al. 2020
<i>Hypoxydon anthochroum</i>	BCRC34050	JN660819	—	AY951703	—	Hsieh et al. 2005

<i>Hypoxylon baihualingense</i>	<b>H14</b>	MG490190	—	MH790276	—	Ma et al. 2018
<i>Hypoxylon baruense</i>	<b>UCH9545</b>	MN056428	—	MK908142.	—	Cedeño–Sanchez et al. 2019
<i>Hypoxylon begae</i>	BCRC 34051	JN660820	—	AY951704	—	Hsieh et al. 2005
<i>Hypoxylon bellicolor</i>	<b>UCH9543</b>	MN056425	—	—	MK908139	Cedeno-Sanchez et al. 2019
<i>Hypoxylon brevisporum</i>	BCRC33809	JN660821	—	AY951705	—	Hsieh et al.2005
<i>Hypoxylon calileguense</i>	<b>STMA 14059</b>	KU604566	—	KU604579	—	Sir et al. 2016
<i>Hypoxylon carneum</i>	MUCL 54177	KY610400	KY610480	KX271270	KY624297	Wendt et al. 2018
<i>Hypoxylon cercidicola</i>	CBS 119009	KU683766	KY610444	KU684189	KY624254	Wendt et al. 2018
<i>Hypoxylon</i> cf. <i>subticinense</i>	MUCL 53752	KC968913	—	KC977297	—	Kuhnert et al. 2014
<i>Hypoxylon chionostomum</i>	STMA 14060	KU604563	—	—	—	Sir et al. 2016
<i>Hypoxylon cinnabarinum</i>	YMJ 43	JN979409	—	AY951709	—	Hsieh et al.2005
<i>Hypoxylon crocopeplum</i>	CBS 119004	KC968907	KY610445	KC977268	KY624255	Wendt et al. 2018
<i>Hypoxylon dieckmannii</i>	BCRC34058	JN979413	—	AY951712	—	Hsieh et al.2005
<i>Hypoxylon duranii</i>	BCRC34060	JN979414	—	AY951714	—	Hsieh et al.2005
<i>Hypoxylon endophyticum</i>	<b>MFLUCC 18-1206</b>	MZ463115	MZ463160	MZ998938	MZ613967	This study
	MFLUCC 18-1209	MZ463134	MZ463177	MZ998953	MZ970698	This study
	MFLUCC 18-1211	MZ463118	MZ463163	MZ998941	MZ690490	This study
	<b>MFLUCC 18-1208</b>	MZ463131	MZ463174	MZ998950	MZ970703	This study
	MFLUCC 18-1210	MZ463137	MZ463180	MZ998956	MZ970705	This study
	MUCL 53759	KC968910	—	KC977296	—	Wendt et al. 2018
<i>Hypoxylon fendleri</i>	MUCL 54792	KF234421	KY610481	KF300547	KY624298	Wendt et al. 2018
<i>Hypoxylon ferrugineum</i>	CBS 141259	KX090079	—	KX090080	—	Friebes et al. 2016
<i>Hypoxylon flavoargillaceum</i>	STMA 14062	KU604577	—	KU159532	—	Sir et al. 2016

<i>Hypoxylon fragiforme</i>	<b>MUCL 51264</b>	KM186294	KM186295	KM186293	KM186296	Wendt et al. 2018
	YMJ 387	JN979419	—	AY951719	—	Hsieh et al. 2005
<i>Hypoxylon fraxinophilum</i>	<b>STMA 12011</b>	KC968938	—	KC977301	—	Kuhnert et al. 2014
<i>Hypoxylon fulvosulphureum</i>	<b>MFLUCC 13-0589</b>	KP401576	—	KP401584	—	Sir et al. 2016
<i>Hypoxylon fuscopurpureum</i>	BCRC34067	JN979421	—	AY951721	—	Hsieh et al. 2005
<i>Hypoxylon fuscum</i>	<b>CBS 113049</b>	KY610401	KY610482	KX271271	KY624299	Wendt et al. 2018
<i>Hypoxylon gibriacense</i>	<b>MUCL 52698</b>	KC968930	—	AY951739	—	Kuhnert et al. 2014
<i>Hypoxylon griseobrunneum</i>	<b>CBS 331.73</b>	KY610402	MH872399	KC977303	KY624300	Wendt et al. 2018
<i>Hypoxylon guilanense</i>	<b>MUCL 57726</b>	MT214997	MT214992	MT212239	MT212235	Pourmoghaddam et al. 2020
<i>Hypoxylon haematostroma</i>	MUCL 47600	AM749924	KY610447	KC977279	KY624257	Wendt et al. 2018
<i>Hypoxylon hercoglossi</i>	<b>MFLUCC 18-1207</b>	MZ463125	MZ463168	—		This study
<i>Hypoxylon hinnuleum</i>	<b>CBS 286.62</b>	MH858152	MH869746	MK287575	MK287562	Sir et al. 2019
<i>Hypoxylon howeanum</i>	MUCL 47599	AM749928	KY610448	KC977277	KY624258	Wendt et al. 2018
<i>Hypoxylon hypomiltum</i>	MUCL 51845	KY610403	KY610449	KX271249	KY624302	Wendt et al. 2018
<i>Hypoxylon investiens</i>	CBS 118185	FJ185308	KY610451	FJ185299	KY624260	Platas et al. 2009
	CBS 118183	FJ185307	KY610450	FJ185298	KY624259	Platas et al. 2009
	YMJ 89062905	JN979428	—	AY951730	—	Hsieh et al.2005
<i>Hypoxylon isabellinum</i>	<b>MUCL 53308</b>	KC968935	—	KC977295	—	Kuhnert et al. 2014
<i>Hypoxylon jaklitschii</i>	<b>CBS 138916</b>	KM610290	—	KM610304	—	Kuhnert et al. 2015
<i>Hypoxylon jecorinum</i>	YMJ 39	JN979429	—	AY951731	—	Hsieh et al.2005
<i>Hypoxylon lateripigmentum</i>	<b>MUCL 53304</b>	NR155156	KY610486	KC977290	KY624304	Kuhnert et al. 2014
<i>Hypoxylon lenormandii</i>	CBS 119003	KC968943	KY610452	KC977273	KY624261	Wendt et al. 2018
<i>Hypoxylon lienhwacheense</i>	MFLUCC 14-1231	KU604558	—	KU159522	—	Sir et al. 2016
<i>Hypoxylon lilloi</i>	<b>STMA 14142</b>	KU604574	—	KU159537	—	Sir et al. 2016

<i>Hypoxylon liviae</i>	<b>CBS 115282</b>	KC968922	—	KC977265	—	Kuhnert et al. 2017
<i>Hypoxylon lividicolor</i>	<b>BCRC34076</b>	JN979432	—	AY951734	—	Hsieh et al. 2005
<i>Hypoxylon lividipigmentum</i>	<b>BCRC34077</b>	JN979433	MG685777	AY951735	—	Sir et al. 2016
<i>Hypoxylon macrosporum</i>	YMJ 47	JN979434	—	AY951736	—	Hsieh et al. 2005
<i>Hypoxylon moschaticum</i>	<b>MFLUCC 15-1155</b>	MZ463149	—	MZ998968		This study
<i>Hypoxylon munkii</i>	MUCL 53315	KC968912	—	KC977294	—	Kuhnert et al. 2014
<i>Hypoxylon musceum</i>	MUCL 53765	KC968926	KY610488	KC977280	KY624306	Wendt et al. 2018
<i>Hypoxylon notatum</i>	YJM 250	JQ009305	—	AY951739	—	Hsieh et al. 2010
<i>Hypoxylon ochraceum</i>	<b>MUCL 54625</b>	NR155158	—	KC977300	KY624271	Wendt et al. 2018
<i>Hypoxylon officinalis</i>	MFLUCC 14-0078	MZ463109	MZ463156	MZ998933	—	This study
	<b>MFLUCC 14-0075</b>	MZ463108	MZ463155	MZ613966	—	This study
	MFLUCC 21-0060	MZ463123	—	MZ998943	MZ690492	This study
<i>Hypoxylon olivaceopigmentum</i>	<b>DSM 107924</b>	MK287530	MK287542	MK287568	MK287555	Sir et al. 2019
<i>Hypoxylon papillatum</i>	<b>ATCC 58729</b>	NR155153	KY610454	KC977258	KY624223	Wendt et al. 2018
<i>Hypoxylon perforatum</i>	CBS 115281	AM749935	KY610455	KX271250	KY624224	Wendt et al. 2018
<i>Hypoxylon petriniae</i>	<b>CBS 114746</b>	NR155185	KY610491	KX271274	KY624279	Wendt et al. 2018
<i>Hypoxylon pilgerianum</i>	YMJ 92042505	JQ009310	—	AY951744	KY624308	Hsieh et al. 2005
<i>Hypoxylon polyporoideum</i>	BCRC34088	JQ009311	—	AY951747	—	Hsieh et al. 2005
<i>Hypoxylon polyporus</i>	STMA 14090	KU604570	—	KU159530	—	Sir et al. 2016
<i>Hypoxylon porphyreum</i>	CBS 119022	KC968921	KY610456	KC977264	KY624225	Kuhnert et al. 2014
<i>Hypoxylon pulicicidum</i>	<b>MUCL 49879</b>	JX183075	—	JX183072	—	Bills et al. 2012
	MUCL 53764	JX183077	—	JX183073	—	Bills et al. 2012
	CBS 122622	NG066188	KY610492	JX183074	KY624280	Wendt et al. 2018
	GZAC O37L14	MZ463124	MZ463167	MZ998944	MZ690493	This study

<i>Hypoxylon rickii</i>	<b>MUCL 53309</b>	NR137115	KY610416	KC977288	KY624281	Wendt et al. 2018
<i>Hypoxylon rubiginosum</i>	<b>MUCL 52887</b>	NR155152	KY610469	KY624311	KY624266	Wendt et al. 2018
<i>Hypoxylon rutilum</i>	YMJ 181	—	—	AY951752	—	Hsieh et al. 2005
<i>Hypoxylon samuelsii</i>	<b>MUCL 51843</b>	NR137159	KY610466	KC977286	KY624269	Wendt et al. 2018
<i>Hypoxylon shearii</i> var. <i>minor</i>	<b>BCRC34093</b>	EF026142	—	AY951753	—	Hsieh et al. 2005
<i>Hypoxylon spegazzinianum</i>	<b>STMA 14082</b>	KU604573	—	KU604582	—	Sir et al. 2016
<i>Hypoxylon sporstriatatunicum</i>	<b>UCH9542</b>	MN056426	—	MK908140	—	Cedeno-Sanchez et al. 2019
<i>Hypoxylon subgilvum</i>	YMJ 88113007	JQ009314	—	AY951754	—	Hsieh et al. 2005
<i>Hypoxylon sublenormandii</i>	JF13026	KM610291	—	KM610303	—	Kuhnert et al. 2015
<i>Hypoxylon subrutiloides</i>	F202416	FJ185304	—	FJ185281	—	Platas et al. 2009
<i>Hypoxylon texense</i>	<b>DSM 107933</b>	MK287536	MK287548	MK287574	MK287561	Kuhnert et al. 2017
<i>Hypoxylon ticinense</i>	CBS 115271	JQ009317	KY610471	AY951757	KY610471	Wendt et al. 2018
<i>Hypoxylon trugodes</i>	<b>MUCL 54794</b>	KF234422	KY610493	KF300548	KY624282	Wendt et al. 2018
<i>Hypoxylon ulmophilum</i>	<b>YMJ 350</b>	JQ009320	—	AY951760		Hsieh et al. 2005
<i>Hypoxylon vinosopulvinatum</i>	<b>BCRC34101</b>	JQ009321	—	AY951761	—	Hsieh et al. 2005
<i>Hypoxylon vogesiacum</i>	CBS 115273	KY610417	KY610417	KX271275	KY624283	Wendt et al. 2018
<i>Induratia alba</i>	<b>MONT 620</b>	AF324336	—	—	—	Worapong et al. 2001
<i>Induratia brasiliensis</i>	<b>LGMF 1256</b>	KY924494	—	—	MF510171	Pena et al., (2019)
<i>Induratia camphorae</i>	<b>NFCCI 3236</b>	KC481681	—	—	—	Meshram et al. 2017
<i>Induratia cinnamomi</i>	<b>BCC 38842</b>	GQ848369	—	—	—	Suwannarach et al. 2010
<i>Induratia coffeana</i>	<b>COAD 1842</b>	KM514680	—	KM514681	—	Hongsanan et al. 2015
<i>Induratia crispans</i>	<b>MONT 2347</b>	EU195297	—	—	—	Suwannarach et al. 2010
<i>Induratia equiseti</i>	<b>JCM 18233</b>	JX089322	—	—	—	Suwannarach et al. 2013

<i>Induratia darjeelingensis</i>	<b>NFCCI 3095</b>	NFCCI 3095	—	—	—	Saxena et al. 2014
<i>Induratia fengyangensis</i>	ZJLQ024	HM034855	HM034861	HM034842	HM034851	Zhang et al. 2010
<i>Induratia ghoomensis</i>	<b>NFCCI 3234</b>	KF537625	—	—	—	Meshram et al. 2015
<i>Induratia indica</i>	<b>NFCCI 3235</b>	KF537626	—	—	—	Meshram et al. 2015
<i>Induratia kashayum</i>	<b>NFCCI 2947</b>	KC481680	—	—	—	Meshram et al. 2013
<i>Induratia musae</i>	<b>JCM 18230</b>	JX089323	—	—	—	Suwannarach et al. 2010
<i>Induratia oryzae</i>	<b>JCM 18231</b>	JX089321	—	—	—	Suwannarach et al. 2010
<i>Induratia rosea</i>	<b>MONT 2098</b>	AY034665	—	—	—	Worapong et al. 2002
<i>Induratia</i> sp.	MFLUCC 15-1218	MZ463110	—	—	—	This study
<i>Induratia suthepensis</i>	<b>JCM 18232</b>	JN558830	—	—	—	Suwannarach et al. 2010
<i>Induratia sutura</i>	<b>MSUB 2380</b>	JF938595	—	—	—	Kudalkar et al. 2012
<i>Induratia thailandica</i>	<b>MFLUCC 17-2669</b>	MK762707	MK762714	MK791283	MK776960	Samarakoon et al. 2020
<i>Induratia tigerensis</i>	<b>NFCCI 3172</b>	JQ409998	—	—	—	Saxena et al. 2015
<i>Induratia vitigena</i>	<b>MONT P-15</b>	AY100022	—	—	—	Daisy et al. 2002
<i>Induratia yucatanensis</i>	<b>MEXU 25511</b>	FJ917287	—	—	—	González et al. 2009
<i>Induratia yunnanensis</i>	<b>CGMCC 3.18908</b>	MG866046	MG866038	MG866059	MG866066	Chen et al. 2019
<i>Induratia ziziphi</i>	<b>MFLUCC 17-2662</b>	MK762705	MK762712	MK791281	MK776958	Samarakoon et al. 2020
<i>Jackrogersella cohaerens</i>	CBS 119126	KC477233	KY610497	KY624314	KY624270	Wendt et al. 2018
<i>Jackrogersella minutella</i>	CBS 119015	KY610381	KY610424	KX271240	KY624235	Wendt et al. 2018
<i>Jackrogersella multiformis</i>	<b>CBS 119016</b>	NR154784	KT281893	KX271262	KY624290	Wendt et al. 2018
<i>Kretzschmaria clavus</i>	YMJ 114	EF026126	—	EF025611	GQ844789	Hsieh et al. 2010
<i>Kretzschmaria deusta</i>	CBS 163.93	KC477237	KY610458	KX271251	KY624227	Wendt et al. 2018
<i>Kretzschmaria guyanensis</i>	89062903 (HAST)	GU300079	—	GQ478214	GQ844792	Hsieh et al. 2010
<i>Kretzschmaria lucidula</i>	YMJ 112	EF026125	—	EF025610	GQ844790	Hsieh et al. 2010



<i>Kretzschmaria neocaledonica</i>	94031003 (HAST)	GU300078	—	GQ478213	GQ844788	Hsieh et al. 2010
<i>Kretzschmaria pavementosa</i>	YMJ 109	GU300077	—	GQ478212	GQ844787	Hsieh et al. 2010
<i>Kretzschmaria sandvicensis</i>	YMJ 113	GU300076	—	GQ478211	GQ844786	Hsieh et al. 2010
<i>Kretzschmariella culmorum</i>	JDR 88	KX430043	—	KX430046	KX430045	Fournier et al. 2018
<i>Lopadostoma gastrinum</i>	<b>CBS 134632</b>	NR132030	MH877560	—	—	Vu et al. 2019
<i>Lopadostoma insulare</i>	<b>CBS 133214</b>	NR132031	—	—	—	Jaklitsch et al. 2014
<i>Lunatiannulus irregularis</i>	<b>MFLUCC 14-0014</b>	KP297398	KP340540	KP406609	KP340526	Daranagama et al. 2015
<i>Natonodosa speciosa</i>	<b>CLM-RV86</b>	MF380435	MF380435	—	MH745150	Heredia et al. 2020
<i>Nemania abortiva</i>	<b>BISH467</b>	GU292816	—	GQ470219	KU684251	Hsieh et al. 2010
<i>Nemania aenea</i>	CBS 680.86	AJ390427	—	—	—	Sanchez-Ballesteros et al. 2000
<i>Nemania aenea</i> var. <i>aureolutea</i>	ATCC 60819	AF201704	—	—	—	Pinto-Sherer et al. 2000
<i>Nemania beaumontii</i>	405 (HAST)	GU292819	—	GQ470222	GQ844772	Hsieh et al. 2010
<i>Nemania bipapillata</i>	5336	JQ862691	JQ862649	JX868546	—	Chen et al. 2013
	90080610 (HAST)	GU292818	—	GQ470221	GQ844771	Hsieh et al. 2010
<i>Nemania chestersii</i>	ATCC 38988	AJ390430	—	DQ631949	—	Sanchez-Ballesteros et al. 2000
<i>Nemania dendrobii</i>	<b>MFLUCC 18-1213</b>	MZ463137	MZ463181	MZ998957	MZ970708	This study
	<b>MFLUCC 18-1212</b>	MZ463135	MZ463178	MZ998954	MZ970699	This study
<i>Nemania diffusa</i>	<b>91020401 (HAST)</b>	GU292817	—	GQ470220	GQ844769	Hsieh et al. 2010
	JZB3370003	MT509577	—	—	MT512901	Manawasinghe et al. 2021
	MFLUCC 14-0139	MZ463143	MZ463185	MZ998962	—	This study
<i>Nemania illita</i>	YMJ 236	EF026122	—	EF025608	—	Hsieh et al. 2010
<i>Nemania macrocarpa</i>	<b>CBS 109567</b>	MH862830	MH874423	GQ470226	GQ844776	Vu et al. 2019

<i>Nemania maritima</i>	<b>89120401 (HAST)</b>	GU292822	—	GQ470225	GQ844775	Hsieh et al. 2010
<i>Nemania orchidacearum</i>	<b>MFLUCC 14-0138</b>	MZ463141	MZ463183	MZ998960	MZ970706	This study
	<b>MFLUCC 14-0105</b>	MZ463114	MZ463159	MZ998937	—	This study
<i>Nemania plumbea</i>	JF TH-04-01	DQ641634	—	DQ631952	—	Tang et al. 2007
<i>Nemania primolutea</i>	<b>91102001 (HAST)</b>	EF026121	—	EF025607	GQ844767	Tang et al. 2007
<i>Nemania serpens</i>	ATCC 16078	AJ390431	—	—	—	Sanchez-Ballesteros et al. 2000
<i>Nemania serpens</i> var. <i>macrospora</i>	ATCC 60822	AJ390433	—	—	—	Sanchez-Ballesteros et al. 2000
<i>Neoxylaria arengae</i>	<b>MFLUCC 15-0292</b>	MT496747	—	—	MF459058	Konta et al. 2020
<i>Neoxylaria juruensis</i>	92042501 (HAST)	GU322439	—	GQ495932	GQ844825	Konta et al. 2020
<i>Obolarina dryophila</i>	MUCL 49882	GQ428316	GQ428316	GQ428322	KY624284	Wendt et al. 2018
<i>Podosordaria mexicana</i>	WSP176	GU324762	—	GQ844840	GQ853039	Hsieh et al. 2010
<i>Podosordaria muli</i>	<b>WSP167</b>	GU324761	—	GQ844839	GQ853038	Hsieh et al. 2010
<i>Poronia pileiformis</i>	<b>WSP 88113001</b>	GU324760	—	GQ502720	GQ853037	Hsieh et al. 2010
<i>Poronia punctata</i>	<b>CBS 656.78</b>	KT281904	KY610496	KX271281	KY624278	Wendt et al. 2018
<i>Pyrenopolyporus hunteri</i>	<b>MUCL 52673</b>	KY610421	KY610472	KU159530	KY624309	Wendt et al. 2018
<i>Pyrenopolyporus laminosus</i>	<b>MUCL 53305</b>	NR154296	KY610485	KC977292	KY624303	Wendt et al. 2018
<i>Pyrenopolyporus nicaraguensis</i>	CBS 117739	AM749922	KY610489	AM749922	KY624307	Wendt et al. 2018
<i>Rhopalostroma angolense</i>	CBS 126414	KY610420	KY610459	KX271277	KY624228	Wendt et al. 2018
<i>Rosellinia aquila</i>	MUCL 51703	KY610392	KY610460	KX271253	KY624285	Wendt et al. 2018
<i>Rosellinia buxi</i>	JDR 99	GU300070	—	GQ470228	GQ844780	Hsieh et al.2010
<i>Rosellinia corticium</i>	MUCL 51693	KY610393	KY610461	KX271254	KY624229	Wendt et al. 2018
<i>Rosellinia lamprostoma</i>	YMJ 89112602	EF026118	—	EF025604	GQ844778	Hsieh et al.2010
<i>Rosellinia necatrix</i>	CBS 349.36	AY909001	KF719204	KY624310	—	Vu et al. 2019

<i>Rosellinia sanctae-cruciana</i>	90072903(HAST)	GU292824	—	GQ470227	GQ844777	Hsieh et al.2010
<i>Rostrophoxylon terebratum</i>	<b>CBS 119137</b>	NR137677	NG057759	DQ840097	DQ631954	Wendt et al. 2018
<i>Ruwenzoria pseudoannulata</i>	<b>MUCL 51394</b>	NR137733	NG059787	KX271278	KY624286	Stadler et al. 2009
<i>Sarcoxydon compunctum</i>	CBS 359.61	KT281903	KY610462	KX271255	KY624230	Wendt et al. 2018
<i>Stilbohoxylon elaeicola</i>	YMJ 173	EF026148	—	EF025616	GQ844826	Hsieh et al.2010
<i>Stilbohoxylon quisquiliarum</i>	YMJ 172	EF026119	—	EF025605	GQ853020	Hsieh et al.2010
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<i>Thamnomycetes dendroidea</i>	<b>CBS 123578</b>	NR154472	KY610467	KY624313	KY624232	Stadler et al. 2010
<i>Xylaria acuminatilongissima</i>	<b>95060506 (HAST)</b>	EU178738	—	GQ502711	GQ853028	Ju and Hsieh 2007
<i>Xylaria acuta</i>	AFTOL-ID 63	DQ491493	AY544676	—	DQ247797	Lutzoni et al. 2004
<i>Xylaria adscendens</i>	570 (HAST)	GU300101	—	GQ487708	GQ844817	Hsieh et al.2010
<i>Xylaria aethiopica</i>	YMJ 1136	MH790445	—	MH785221	MH785222	Fournier et al. 2018
<i>Xylaria allantoidea</i>	94042903 (HAST)	GU324743	—	GQ502692	GQ848356	Hsieh et al.2010
<i>Xylaria amphithele</i>	529 (HAST)	GU300083	—	GQ478218	GQ844796	Hsieh et al.2010
<i>Xylaria apiculata</i>	EF6	MF927538	—	—	—	Poornima et al. 2017
<i>Xylaria aphylli</i>	<b>MFLUCC 21-0059</b>	MZ463116	MZ463161	MZ998939	MZ613968	This study
<i>Xylaria apoda</i>	90080804 (HAST)	GU322437	—	GQ495930	GQ844823.	Hsieh et al.2010
<i>Xylaria arbuscula</i>	CBS 126415	KY610394	KY610463	KX271257	KY624287	Wendt et al. 2018
	CBS 126416	MH864102	MH875561	—	—	Vu et al. 2019
<i>Xylaria arbuscula</i> var. <i>plenofissura</i>	93082814 (HAST)	GU339495	—	GQ478225	GQ844804	Hsieh et al.2010
<i>Xylaria areolata</i>	543 (HAST)	GU300080	—	GQ478215	GQ844793	Hsieh et al.2010
<i>Xylaria atrodivaricata</i>	<b>95052001 (HAST)</b>	EU178739	—	GQ502713	GQ853030	Ju and Hsieh 2007
<i>Xylaria atosphaerica</i>	91111214 (HAST)	GU322459	—	GQ495953	GQ848342	Hsieh et al.2010
<i>Xylaria badia</i>	5256	JQ862687	JQ862643	JX868543	—	Chen et al. 2013

<i>Xylaria bambusicola</i>	MFLUCC 11-0606	KU940160	KU863148	—	KU940183	Dai et al. 2016
	<b>WSP 205</b>	NR153200	—	AY951762	GQ844802	Hsieh et al.2010
<i>Xylaria berteri</i>	90112623 (HAST)	GU324749	—	—	—	Hsieh et al.2010
	JDR 256	GU324750	—	GQ502698	GQ848363	Hsieh et al.2010
	YMJ 95101511	KC473562	—	KC473561	—	Fu et al. 2013
	MFLUCC 14-0095	MZ463112	MZ463157	MZ998935	MZ490538	This study
	MFLUCC 14-0102	MZ463113	MZ463158	MZ998936	MZ490539	This study
	MFLUCC 14-0110	MZ463111	—	MZ998934	—	This study
	MFLUCC 14-0117	MZ463130	MZ463173	MZ998949	—	This study
	MFLUCC 14-0126	MZ463128	MZ463171	MZ998947	MZ970695	This study
	MFLUCC 14-0143	MZ463144	MZ463186	MZ998963	—	This study
	MFLUCC 14-0150	MZ463147	MZ463189	MZ998966	MZ970707	This study
	MFLUCC 14-0158	MZ463146	MZ463188	MZ998965	—	This study
	MFLUCC 21-0061	MZ463127	MZ463170	MZ998946	—	This study
<i>Xylaria brunneovinosa</i>	<b>720 (HAST)</b>	NR153201	—	GQ502706	GQ853023	Hsieh et al.2010
<i>Xylaria castorea</i>	<b>ATCC 76020</b>	AF163030	—	—	—	Lee et al. 2000
	PDD 600	GU324751	—	GQ502703	GQ853018	Hsieh et al.2010
<i>Xylaria cf. castorea</i>	91092303 (HAST)	GU324752	—	GQ502704	GQ853019	Hsieh et al.2010
<i>Xylaria cf. heliscus</i>	88113010 (HAST)	GU324742	—	GQ502691	GQ848355	Hsieh et al.2010
<i>Xylaria chaiyaphumensis</i>	<b>SWUF17-49.2</b>	MT622775	—	—	—	Wangsawat et al. 2021
<i>Xylaria chrysanthi</i>	<b>MFLUCC 21-0014</b>	MZ463133	MZ463176	MZ998952	MZ970697	This study
<i>Xylaria cirrata</i>	<b>664 (HAST)</b>	EU179863	—	GQ502707	GQ853024	Hsieh et al.2010
<i>Xylaria coccophora</i>	786 (HAST)	GU300093	—	GQ487701	GQ844809	Hsieh et al.2010
<i>Xylaria cranioides</i>	226 (HAST)	GU300075	—	GQ478210	GQ844785	Ju and Hsieh 2007

<i>Xylaria crozonensis</i>	398 (HAST)	GU324748	—	GQ502697	GQ848361	Hsieh et al.2010
<i>Xylaria cubensis</i>	GENT 159	—	—	GQ502702	GQ853017	Hsieh et al.2010
	477 (HAST)	—	—	GQ502699	GQ848364	Hsieh et al.2010
	JDR 860	GU991523	—	GQ502700	GQ848365	Hsieh et al.2010
<i>Xylaria culleniae</i>	JDR 189	GU322442	—	GQ495935	GQ844829	Hsieh et al.2010
<i>Xylaria curta</i>	494 (HAST)	GU322444	—	GQ495937	GQ844831	Hsieh et al.2010
	92092022 (HAST)	GU322443	—	GQ495936	GQ844830	Hsieh et al.2010
<i>Xylaria cf. curta</i>	GZAC O36L23	MZ463122	MZ463166	MZ998942	MZ690491	This study
<i>Xylaria cf. glebosa</i>	431 (HAST)	GU322462	—	GQ495956	GQ848345	Hsieh et al.2010
<i>Xylaria dendrobii</i>	<b>MFLUCC 14-0137</b>	MZ463140	—	MZ998959	—	This study
	GZAC O6LA2	MZ463148	MZ463190	MZ998967	—	This study
<i>Xylaria digitata</i>	919 (HAST)	GU322456	—	GQ495949	GQ848338	Hsieh et al.2010
<i>Xylaria discolor</i>	<b>YMJ 1280</b>	JQ087405	—	JQ087414	JQ087411	Ju et al. 2012
<i>Xylaria enterogena</i>	785 (HAST)	GU324736	—	GQ502685	GQ848349	Hsieh et al.2010
<i>Xylaria escharoidea</i>	<b>658 (HAST)</b>	EU179864	—	GQ502709	GQ853026	Hsieh et al.2010
<i>Xylaria feejeensis</i>	JDR 180	GU322453	—	GQ495946	GQ848335	Hsieh et al.2010
	GZAC O30S21	MZ463117	MZ463162	MZ998940	MZ690489	This study
<i>Xylaria fimbriata</i>	491 (HAST)	GU324753	—	GQ502705	GQ853022	Hsieh et al.2010
<i>Xylaria fissilis</i>	367 (HAST)	GU300073		GQ470231	GQ844783	Hsieh et al.2010
<i>Xylaria frustulosa</i>	92092010 (HAST)	GU322451	—	GQ495944	GQ844838	Hsieh et al.2010
<i>Xylaria globosa</i>	775 (HAST)	GU324735	—	GQ502684	GQ848348	Hsieh et al.2010
<i>Xylaria grammica</i>	5228	JQ862677	JQ862638	JX868538	—	Chen et al. 2013
	479 (HAST)	GU300097	—	GQ487704	GQ844813	Hsieh et al.2010
	5151	JQ862665	JQ862626	JX868535	—	Chen et al. 2013

	BCC1002	AB625411	AB376679	—	—	Okane et al. 2012
	MFLUCC 14-0093	MZ463107	MZ463154	MZ613965	—	This study
	MFLUCC 14-0146	MZ463139	MZ463182	MZ998958	MZ970700	This study
<i>Hypoxylon griseobrunneum</i>	<b>CBS 331.73</b>	KY610402	MH872399	KC977303	KY624300	Wendt et al. 2018
<i>Xylaria haemorrhoidalis</i>	89041207 (HAST)	GU322464	—	GQ502683	GQ848347	Hsieh et al.2010
<i>Xylaria hongkongensis</i>	<b>GDGM 40058</b>	NR154905	—	—	—	Tang et al. 2013
	GZAC O32S24	MZ463119	MZ463164	—	MZ970702	This study
<i>Xylaria hypoxylon</i>	<b>CBS 122620</b>	AM993141	KY610495	KX271279	KY624231	Persoh et al. 2009
<i>Xylaria ianthinovelutina</i>	553 (HAST)	GU322441		GQ495934	GQ844828	Hsieh et al.2010
<i>Xylaria insolita</i>	YMJ 99090301-1251	MN655979	—	MN656983	MN656981	Hsieh et al. 2020
<i>Xylaria intracolorata</i>	90080402 (HAST)	GU324741	—	GQ502690	GQ848354	Hsieh et al.2010
<i>Xylaria intraflava</i>	725 (HAST)	EU179866	—	GQ502718	GQ853035	Ju and Hsieh 2007
<i>Xylaria ischnostroma</i>	SWUF18-22.1	MT622788	—	MW459244	—	Wangsawat et al. 2021
<i>Xylaria karyophthora</i>	DRH059	KY564220	—	—	KY564216	Husbands et al. 2017
<i>Xylaria laevis</i>	95072910 (HAST)	GU324747	—	GQ502696	GQ848360	Hsieh et al.2010
	419 (HAST)	GU324746	—	GQ502695	GQ848359	Hsieh et al.2010
	GZAC O33L12	MZ463120	MZ463165	MZ998969		This study
<i>Xylaria liquidambaris</i>	93090701 (HAST)	GU300094	—	GQ487702	GQ844810	Hsieh et al.2010
<i>Xylaria longipes</i>	<b>CBS 148.73</b>	KU683768	—	KU684204	KU684280	Vu et al. 2019
<i>Xylaria longissima</i>	<b>IRAN 2268C</b>	NR147567	—	—	—	Hashemi et al. 2015
<i>Xylaria luteostromata</i>	508 (HAST)	GU324739	—	GQ502688	GQ848352	Hsieh et al.2010
<i>Xylaria mali</i>	CBS 385.35	AF163040	MH867225	KU684205	KU684286	Hsieh et al.2010
<i>Xylaria meliacearum</i>	JDR 148	GU300084	—	GQ478219	GQ844797	Hsieh et al.2010
<i>Xylaria melitensis</i>	CS1223	MW513723	MW51376	—	—	Fournier et al. 2021

<i>Xylaria microceras</i>	414 (HAST)	GU300086	—	GQ478221	GQ844799	Hsieh et al.2010
<i>Xylaria minima</i>	<b>SWUF18-3.2</b>	MT622789	—	MW459245	—	Wangsawat et al. 2021
<i>Xylaria montagnei</i>	495 (HAST)	GU322455	—	GQ495948	GQ848337	Hsieh et al.2010
<i>Xylaria multiplex</i>	580 (HAST)	GU300098	—	GQ487705	GQ844814	Hsieh et al.2010
<i>Xylaria muscula</i>	520 (HAST)	GU300087	—	GQ478222	GQ844800	Hsieh et al.2010
<i>Xylaria necrophora</i>	DMCC3829	MT808616	—	MT812966	MT812957	Garcia-Aroca et al. 2021
<i>Xylaria nigripes</i>	653 (HAST)	GU324755	—	GQ502710	GQ853027	Hsieh et al.2010
<i>Xylaria ochraceostroma</i>	<b>401(HAST)</b>	EU179869	—	GQ502717	GQ853034	Ju and Hsieh 2007
<i>Xylaria oligotoma</i>	784 (HAST)	GU300092	—	GQ487700	GQ844808	Hsieh et al.2010
<i>Xylaria ophiopoda</i>	93082805 (HAST)	GU322461	—	GQ495955	GQ848344	Hsieh et al.2010
<i>Xylaria oxyacanthae</i>	JDR 859	GU322434	—	GQ495927	GQ844820	Hsieh et al.2010
<i>Xylaria palmicola</i>	604 (PDD)	GU322436	—	GQ495929	GQ844822	Hsieh et al.2010
<i>Xylaria papulis</i> (= <i>Xylaria hongkongensis</i> )	5118	JX868517	JQ862616	JX868529	—	Chen et al. 2013
<i>Xylaria phyllocharis</i>	528 (HAST)	GU322445	—	GQ495938	GQ844832	Hsieh et al.2010
<i>Xylaria plebeja</i>	91122401 (HAST)	GU324740	—	GQ502689	GQ848353	Hsieh et al.2010
<i>Xylaria polymorpha</i>	MUCL 49884	KY610408	KY610464	KX271280	KY624288	Wendt et al. 2018
<i>Xylaria reevesiae</i>	HMH-2010g	GU322435	—	GQ495928	GQ844821	Hsieh et al.2010
<i>Xylaria regalis</i>	920 (HAST)	GU324745	—	GQ502694	GQ848358	Hsieh et al.2010
<i>X. reinkingii</i> var. <i>microspora</i>	<b>SWUF17-19.1</b>	MT622769	—	MW459234	—	Wangsawat et al. 2021
<i>Xylaria ripicola</i>	<b>KH KA11-0060-1</b>	NR153251	—	—	KU554696	Kim et al. 2016
<i>Xylaria schweinitzii</i>	92092023 (HAST)	GU322463	—	GQ495957	GQ848346	Hsieh et al.2010
<i>Xylaria scuposa</i>	497 (HAST)	GU322458	—	GQ495952	GQ848341	Hsieh et al.2010
<i>Xylaria sicula</i> f. <i>major</i>	90071613 (HAST)	GU300081	MH869355	GQ478216	GQ844794	Vu et al. 2019

<i>Xylaria sihanonthis</i>	<b>SWUF18-1.3</b>	MT622785	—	MW459242	—	Wangsawat et al. 2021
<i>Xylaria spinulosa</i>	<b>GZUCC13016</b>	—	—	KM236099	KM236098	Li et al.2017
<i>Xylaria striata</i>	304 (HAST)	GU300089	—	GQ478224	GQ844803	Hsieh et al.2010
<i>Xylaria subescharoidea</i>	<b>YMJ 99060401-1188</b>	MN655980	—	MN656984	MN656982	Hsieh et al.2020
<i>Xylaria subintraflava</i>	<b>SWUF16-4.3</b>	MT622762	—	MW459230	—	Wangsawat et al. 2021
<i>Xylaria subtropicalis</i>	<b>X1</b>	MG013556	MG013566	—	MG013547	Chacón et al. 2019
<i>Xylaria telfairii</i>	421 (HAST)	GU324737	—	GQ502686	GQ848350	Hsieh et al.2010
<i>Xylaria tentaculata</i>	KA13-1325	KM077164	—	—	—	Kim et al. 2016
<i>Xylaria thienhirunae</i>	<b>SWUF17-44.1</b>	MT622771	—	—	—	Wangsawat et al. 2021
<i>Xylaria tuberosides</i>	475 (HAST)	GU300074	—	GQ478209	GQ844784	Hsieh et al.2010
<i>Xylaria venosula</i>	94080508 (HAST)	EF026149	—	EF025617	GQ844806	Ju et al.2007
	MFLUCC 14-0114	MZ463129	MZ463172	MZ998948	—	This study
	MFLUCC 21-0013	MZ463126	MZ463169	MZ998945	MZ970694	This study
	MFLUCC 21-0015	MZ463136	MZ463179	MZ998955	MZ970704	This study
	MFLUCC 21-0016	MZ463132	MZ463175	MZ998951	MZ970696	This study
	MFLUCC 21-0017	MZ463145	MZ463187	MZ998964	MZ970701	This study
<i>Xylaria venustula</i>	88113002 (HAST)	GU300091	—	GQ487699	GQ844807	Hsieh et al.2010
<i>Xylaria vinacea</i>	<b>SWUF18-2.1</b>	MT622781	—	MW459239	—	Wangsawat et al. 2021
<i>Xylaria vivanii</i>	HMH-2010h	GU322438	—	GQ495931	GQ844824	Hsieh et al.2010
Xylariaceae sp.	MFLUCC 14-0141	MZ463142	MZ463184	MZ998961	—	This study