

Table S2 Information of taxa used in molecular clock analysis besides those indicated in Table S1

Phylum/class/order/family	Species	Voucher	ITS	LSU	<i>tefla</i>	<i>rpb1</i>	<i>rpb2</i>
<i>Ascomycota/Sordariomycetes/Sordariales/Sordariaceae</i>	<i>Neurospora crassa</i>	OR74A	HQ271348	AF286411	XM959775		AF107789
<i>Basidiomycota/Agaricomycetes/Agaricales/Agaricaceae</i>	<i>Lepiota cristata</i>	ZRL20151133	LT716026	KY418841	KY419048	KY418963	KY418992
<i>-/-/Strophariaceae</i>	<i>Gymnopilus picreus</i>	ZRL2015011	LT716066	KY418882	KY419077	KY418980	KY419027
<i>-/-/Amylocorticiales/Amylocorticiaceae</i>	<i>Anomoloma myceliosum</i>	MJL 4413	GU187500	GU187559	GU187677	GU187441	GU187766
	<i>Amylocorticium cebennense</i>	HHB 2808	GU187505	GU187561	GU187675	GU187439	GU187770
<i>-/-/Atheliales/Atheliaceae</i>	<i>Athelia arachnoidea</i>	CBS 418.72	GU187504	GU187557	GU187672	GU187436	GU187769
	<i>Leptosporomyces raunkiaeri</i>	HHB 7628	GU187528	GU187588	GU187719	GU187471	GU187791
<i>-/-/Auriculariales/Auriculariaceae</i>	<i>Auricularia heimuer</i>	Xiaoheimao	LT716074	KY418890	KY419083	KY418982	KY419035
<i>-/-/Boletales/Gomphidiaceae</i>	<i>Gomphidius roseus</i>	MB 95-038	DQ534570	DQ534669	GU187702	GU187459	GU187818
<i>-/-/Suillaceae</i>	<i>Suillus pictus</i>	AFTOL 717	AY854069	AY684154	AY883429	AY858965	AY786066
<i>-/-/Cantharellales/Clavulinaceae</i>	<i>Multiclavula mucida</i>	AFTOL 1130	DQ521417	AY885163			
<i>-/-/Hydnaceae</i>	<i>Hydnum repandum</i>	BB 07.341		KF294643	JX192980		KF294720
<i>-/-/Corticiales/Corticiaceae</i>	<i>Corticium roseum</i>	MG43	GU590877	AY463401			
<i>-/-/Vuilleminiaceae</i>	<i>Australovuilleminia coccinea</i>	MG75	HM046875	HM046931			
<i>-/-/Geastrales/Geastraceae</i>	<i>Pyrenogaster pityophilus</i>	OSC 59743		DQ218519	DQ219232		DQ219057
	<i>Geastrum recolligens</i>	OSC 41996		DQ218486	DQ219230		DQ219052
<i>-/-/Gloeophyllales/Gloeophyllaceae</i>	<i>Gloeophyllum sepiarium</i>	Wilcox-3BB	HM536091	HM536061	HM536110		HM536109
	<i>Gloeophyllum striatum</i>	ARIZAN 027866	HM536092	HM536063	HM536111		HM640259
<i>-/-/Gomphales/Gomphaceae</i>	<i>Ramaria rubella</i>	AFTOL 724	AY854078	AY645057	AY883435		AY786064
	<i>Gautieria otthii</i>	AFTOL 466	AY883434	AF393058	AY883434		AY218486
<i>-/-/Hymenochaetales/Hymenochaetaceae</i>	<i>Fomitiporia mediterranea</i>	AFTOL 688	AY854080	AY684157	AY885149	AY864870	AY803748

	<i>F. hartigii</i>	MUCL 53551	JX093789	JX093833	JX093746	JX093877
	<i>Porodaedalea chinensis</i>	Cui 10252	KX673606	MH152358	MG585301	MH101479
-/-/Oxyporaceae	<i>Rigidoporus corticola</i>	ZRL20151459	LT716075	KY418899	KY419087	KY419038
-/-/Hysterangiales/Hysterangiaceae	<i>Aroramyces gelatinosporus</i>	H4010		DQ218524	DQ219118	DQ218941
-/-/Mesophelliaceae	<i>Chondrogaster pachysporus</i>	OSC 49298		DQ218538	DQ219136	DQ218958
-/-/Jaapiales/Jaapiaceae	<i>Jaapia argillacea</i>	CBS 252.74	GU187524	GU187581	GU187711	GU187463
-/-/Phallales/Phallaceae	<i>Dictyophora duplicata</i>	OSC 38819		DQ218481	DQ219265	DQ219087
	<i>Phallus costatus</i>	MB 02040		DQ218513	DQ219279	DQ219104
-/-/Polyporales/Meripilaceae	<i>Grifola frondosa</i>	AFTOL 701	AY854084	AY629318	AY885153	AY864876
-/-/Polyporaceae	<i>Trametes versicolor</i>	ZRL20151477	LT716079	KY418903	KY419091	KY418984
-/-/Russulales/Bondarzewiaceae	<i>Bondarzewia montana</i>	AFTOL 452	DQ200923	DQ234539	DQ059044	DQ256049
-/-/Sebacinales/Sebacinaceae	<i>Craterocolla cerasi</i>	TUB 020203	KF061265	KF061265		KF061300
	<i>Tremellodendron</i> sp.	PBM 2324	DQ411526		DQ029196	DQ408132
-/-/Stereopsidales/Stereopsidaceae	<i>Stereopsis</i> sp.	OKHL 15544			KC203519	KC203505
	<i>Stereopsis radicans</i>	OLR 45395		KC203496	KC203516	KC203502
-/-/Thelephorales/Bankeraceae	<i>Boletopsis leucomelaena</i>	AFTOL 1527	DQ484064	DQ154112	GU187763	GU187494
-/-/Thelephoraceae	<i>Thelephora ganbajun</i>	ZRL20151295	LT716082	KY418908	KY419093	KY418987
-/-/Trechisporales/Hydodontaceae	<i>Brevicellicium olivascens</i>	KHL 8571	HE963792	HE963793		
	<i>Trechispora alnicola</i>	AFTOL 665	DQ411529	AY635768	DQ059052	
-/-/Dacrymycetes/Dacrymycetales/Dacrymycetaceae	<i>Calocera cornea</i>	AFTOL 438	AY789083	AY701526	AY881019	AY536286
	<i>Dacryopinax spathularia</i>	AFTOL 454	AY854070	AY701525	AY881020	AY786054
-/-/Tremellomycetes/Tremellales/Tremellaceae/	<i>Cryptococcus humicola</i>	AFTOL 1552	DQ645516	DQ645514	DQ645519	DQ645517
-/-/Ustilaginomycetes/Ustilaginales/Ustilaginaceae	<i>Ustilago maydis</i>	AFTOL 505	AY854090	AF453938	AY885160	AY485636