

Table S1. Strains and sequence accession numbers included in this study.

Taxon	Strain number ¹	GenBank accession number				
		LSU ³	ITS	tub2	rpb2	tef1
<i>Allocucurbitaria botulispora</i>	CBS 234.92 ^T	LN907416	LT592932	LT593001	LT593070	
<i>Amniculicola aquatica</i>	MFLUCC 16-1123 ^T	MK106096				MK109800
<i>A. guttulata</i>	MFLUCC 18-1038 ^T	MN913712	MT627726			MT954389
<i>A. immersa</i>	CBS 123083	NG_056964				GU456273
<i>A. lignicola</i>	CBS 123094 ^T	MH874798				GU456278
<i>A. longissima</i>	CB L22	GU266240	AY204596			
<i>A. longissima</i>	CCM-F11791	AY204594	AY204597			
<i>A. microspora</i>	FMR 17946² CBS 148919^T	ON008450	ON006460			ON101726
<i>A. parva</i>	CBS 123092 ^T	FJ795497	MH863272			GU349065
<i>Arthopyrenia salicis</i>	CBS 368.94	KF443410				
<i>Chaetomella endophytica</i>	SDBR-CMU300 ^T	MG406984	MG406985			
<i>C. raphigera</i>	BPI 843541 ^T	AY487077	AY487076			
<i>C. raphigera</i>	CBS 130.64	MH870019	MH858390			
<i>C. raphigera</i>	BPI 843551	AY487086	AY487085			
<i>C. zambiensis</i>	CBS 137978 ^T	MH878619	NR_156280			
<i>Cucurbitaria berberidis</i>	CBS 142401	MF795756	MF795756	MF795886	MF795798	
<i>C. berberidis</i>	CBS 130007 ^T	KC506793	LT717673	LT717676	LT854936	
<i>Elongatopedicellata aquatica</i>	FMR 17834 CBS 148920^T	ON008448				
<i>E. lignicola</i>	MFLUCC 15-0642 ^T	KX421368				
<i>Flabellascoma aquaticum</i>	KUMCC 15-0258 ^T	NG_068307	NR_166305		MN328895	MN328898

<i>F. fusiforme</i>	MFLUCC 18-1019	MT627660	MT627741	MT878452	MT95440
<i>Fouskomenomyces cupreorufescens</i>	A20 ^T	AY616236	AY616232		
<i>F. mimiticus</i>	FMR 16958 ^T	LR824585	LR824586		LR824584
<i>Leptosphaeria dolium</i>	CBS 125979	JF740283	JF740208		
<i>L. dolium</i>	CBS 505.75 ^T	GQ387576	JF740205		GU349069
<i>Lophiostoma crenatum</i>	CBS 629.86 ^T	DQ678069		KT216552	DQ677912
<i>L. macrostomum</i>	KT 635			JN993484	
<i>L. semilibereum</i>	KT 828	AB619014	JN942970	JQ012895	LC001759
<i>Murispora aquatica</i>	MFLU 19-0990 ^T	MN325075	MN325085		MN337969
<i>M. cicognanii</i>	MFLUCC 14-0953 ^T	NG_059609	NR_155381		MK109804
<i>M. fagicola</i>	MFLUCC 13-0600 ^T	NG_060797	NR_155379		KT709188
<i>M. fissilispora</i>	FMR 17151 ^T	LR824597	LR824594		LR824591
<i>M. haswsworthii</i>	MFLUCC 14-0918 ^T	KT709180	NR_138414		KT709192
<i>M. medicaginicola</i>	MFLUCC 13-0762 ^T	NG_059609	NR_155380		KT709191
<i>M. rubicunda</i>	IFRD 2017 ^T	FJ795507			GU456289
<i>Neocucurbitaria acerina</i>	MFLUCC 16-1450 ^T	NG_059784	NR_154254		
<i>N. aquatica</i>	CBS 297.74 ^T	EU754177	LT623221	LT623238	LT623278
<i>N. quercina</i>	CBS 115095 ^T	GQ387619	LT623220	LT623237	LT623277
<i>N. unguis hominis</i>	CBS 111112	GQ387623	LT623222	LT623239	LT623279
<i>N. unguis hominis</i>	UTHSC: DI16-213 ^T		LT717672	LT717675	LT717682
<i>Neopyrenopeziza acicola</i>	CBS 812.95 ^T	GQ387602	LT623218	LT623232	LT623271
<i>N. annellidica</i>	MFLU 11-1105 ^T	MT183502	MT185538		
<i>N. inflorescentiae</i>	CBS 119222 ^T	EU552153	EU552153	LT623233	LT623272

<i>N. thailandica</i>	MFLU 17-1461 ^T	NG_068716	MT214376	MT235825	
<i>Neovaginatispora aquadulcis</i>	FMR 18914 CBS 148921^T	ON008451	ON006463	ON101724 ON101727	
<i>N. clematidis</i>	MFLU 17-2149 ^T	NG_073846	MT310606	MT394738	
<i>N. fuckelii</i>	SICAUCC 20-0008	MT427734	MT427731	MT441924	
<i>Pilidium acerinum</i>	CBS 736.68 ^T	MH870939	NR_119500		
<i>P. anglicum</i>	CBS 143402 ^T	NG_058522	NR_156670		
<i>P. cuprensens</i>	FMR 17839 CBS 148922^T	ON008449	ON006459		
<i>P. eucalyptorum</i>	CPC:26594 ^T	NG_059618	NR_145311		
<i>P. lythri</i>	BPI 1107275 ^T	AY487095	AY487094		
<i>P. lythri</i>	BJ-4	MH322002	MH322003		
<i>P. novae zelandiae</i>	CPC:35872 ^T	NG_068665	NR_165928		
<i>P. pseudoconcavum</i>	CBS 136433 ^T	NG_058050	NR_137128		
<i>P. septatum</i>	BCC 79016 ^T	NG_060185	NR_156616		
<i>Platystomum scabridisporum</i>	BC 2235	GQ925844		GU479830	GU479857
<i>P. scabridisporum</i>	BC 2236	GQ925845		GU479829	GU479856
<i>Pleospora herbarum</i>	CBS 191.86 ^T	JX681120	NR_111243	KC584471	
<i>P. typhicola</i>	CBS 132.69	JF740325		KT389843	KC584505
<i>Pseudolophiostoma obtusisporum</i>	KT 2838 ^T	LC312548	LC312518		LC312576
<i>P. tropicum</i>	KT 3134 ^T	LC312551	LC312522	LC312609	LC312580
<i>Pseudopyrenopeziza lycopersici</i>	CBS 306.65 ^T	EU754205	NR_103581	LT717674	LT717680
<i>P. terrestris</i>	CBS 282.72 ^T	LT623216	LT623228	LT623246	LT623287
<i>Pseudosigmoidea alnicola</i>	CBS 145034 ^T	NG_070465	NR_163379		

<i>P. excentricum</i>	CBS 469.95 ^T	MH874174	MH862538		
<i>P. ibarakiensis</i>	NBRC 107891 ^T	LC146759	LC146758		
<i>P. robusta</i>	FMR 17416	ON008447	ON006458		
<i>Pyrenophaeta nobilis</i>	CBS 407.76 ^T	EU754206	EU930011	KT389845	LT623276
<i>Pyrenophaetopsis americana</i>	UTHSC: DI16-225 ^T	LN907368	LT592912	LT592981	LT593050
<i>P. aquatica</i>	FMR 17327	LR216649	LR216648	LR897788	LR216647
<i>P. botulispora</i>	UTHSC: DI16-298	LN907432	LT592941	LT593010	LT593080
<i>P. chromolaenae</i>	MFLU 17-1446 ^T	MT214469	NR_168876		MT235824
<i>P. confluens</i>	CBS 142459 ^T	LN907446	LT592950	LT593019	LT593089
<i>P. cylindrispora</i>	FMR 18801 CBS 148924	ON008446	ON006461	ON101729	ON101725
<i>P. decipiens</i>	CBS 343.85 ^T	GQ387624	LT623223	LT623240	LT623280
<i>P. globosa</i>	UTHSC: DI16-275 ^T	LN907418	LT592934	LT593003	LT593072
<i>P. indica</i>	CBS 124454 ^T	GQ387626	LT623224	LT623241	LT623281
<i>P. kuksensis</i>	CBS 146534	MT371397	NR_172539	MT372662	MT372656
<i>P. leptospora</i>	CBS 101635 ^T	GQ387627	JF740262	LT623242	LT623282
<i>P. microspora</i>	UTHSC: DI16-198	LN907341	LT592899	LT592968	LT593037
<i>P. paucisetosa</i>	UTHSC: DI16-193 ^T	LN907336	LT592897	LT592966	LT593035
<i>P. perfecta</i>	FMR 18913 CBS 148923^T	ON008445	ON006462	ON101728	ON168928
<i>P. poae</i>	CBS 136769 ^T	KJ869175	KJ869117	KJ869243	LT623286
<i>P. setosissima</i>	CBS 119739 ^T	GQ387632	LT623227	LT623245	LT623285
<i>P. sinensis</i>	LC12199	MK348581	MK348586	MK348221	MK355077
<i>P. tabarestanensis</i>	CBS 139506	KF803343	KF730241	KX789523	
<i>P. terricola</i>	HGUP1802	MH697393	MH697394	MH697392	MH697395

<i>P. rajhradensis</i>	CBS 146846 ^T	MT853182	MT853115	MT857726	MT857727
<i>P. uberiformis</i>	UTHSC: DI16-277 ^T	LN907420	LT592935	LT593004	LT593074
<i>Roussoella arundinacea</i>	CBS 146088	MT223928			
<i>R. doimaesalongensis</i>	MFLU 14-0584	NG_068241			
<i>R. euonymi</i>	CBS 143426 ^T	MH107961			
<i>R. guttulata</i>	MFLU 20-0102 ^T	MT734818			
<i>R. hysteroides</i>	CBS 546.94 ^T	MH874129			
<i>R. intermedia</i>	CBS 170.96 ^T	KF443382			
<i>R. kunmingensis</i>	HKAS 101773 ^T	MH453487			
<i>R. margidorensis</i>	MUT 5329	MN556322			
<i>R. mediterranea</i>	MUTITA 5369 ^T	MN556324			
<i>R. mexicana</i>	NTU 18-099-3	MT071282			
<i>R. mukdahanensis</i>	HKAS 101766	MH453485			
<i>R. pustulans</i>	KT1709 ^T	AB524623			
<i>R. solani</i>	KT 3265 ^T	LC195210			
<i>Sporidesmium austriicense</i>	HKU 10833	DQ408554			
<i>Sympoventuria capensis</i>	CBS 120136 ^T	MH874632	NR_121323		
<i>S. melaleucae</i>	CBS 143407 ^T	NG_058520	NR_156668		
<i>Torula herbarum</i>	CBS 379.58	KF443383			
<i>T. herbarum</i>	CBS 111855	KF443386			
<i>Tricladium splendens</i>	CCM-F 16599	GQ477333	AY204635		
<i>T. splendens</i>	CBS 234.46 ^T	MH867695	MH856171		
<i>Vaginatispora amygdali</i>	KT 2248 ^T	LC312553	LC312524	LC312640	LC312611
<i>V. nypae</i>	MFLUCC 18-1543 ^T	NG_066313	NR_163340	MK434877	MK360091
<i>V. scabrispora</i>	KT 2443 ^T	LC312554	LC312525	LC312641	LC312612
					LC312583

<i>Vargamycetes aquaticus</i>	CBS 636.91 ^T	KY853539	NR_154471
<i>V. aquaticus</i>	FMR 11587	KY853538	KY853475
<i>Venturia inaequalis</i>	CBS 814.69 ^T	MH871214	MH859439
<i>V. pyrina</i>	CBS 120825 ^T	MH874652	EU035468
<i>Xeropilidium dennissii</i>	TFC 201986 ^T		NR_171225
<i>X. dennissii</i>	KL159		KX090807

¹A Hermann Volgmayr; BC:; **BCC**: BIOTEC Culture Collection; **CBS**: Culture collection of the Westerdijk Biodiversity Institute, Utrecht, The Netherlands; **CCM**: Czech Collections of Microorganisms; **CPC**: Culture Collection of Pedro Crous; **FMR**: Facultat de Medicina, Reus, Spain; **HGUP**: Corresponding author's personal collection deposited in laboratory, housed at Guizhou, China; **HKAS**: Cryptogamic Herbarum of Kunming Institute of Botany, Chinese Academy of Sciences; **IFRD**: Culture Collection, International Fungal Research & Development Centre, Chinese Academy of Forestry, Kunming, China; **KT**: Kazuaki Tanaka; **KUMCC**: Kunming Institute of Botany Culture Collection; **LC**: Corresponding author's personal collection deposited in laboratory, housed at CAS, China; **MFLU (MFLUCC)**: Mae Fah Luang University Herbarum, Chiang Rai, Thailand; **MUT, MUTITA**: Mycoteca Universitatis Taurinensis; **NBRC**: NITE Biological Resource Center; **TFC**: Tartu Fungal Culture Collection; **UTHSC**, Fungus Testing Laboratory at the University of Texas Health Science Center, San Antonio, Texas, USA.

²Strains studied by us are indicated in **bold**.

³ITS: internal transcribed spacer region 1 and 2 including 5.8S nrDNA; LSU: large subunit of the nrRNA gene; *rpb2*: RNA polymerase II second subunit; *tub2*: β-tubulin; *tef 1*: translation elongation factor.

^TEx-type strain.