

Supplementary Materials:

Table S1. Strains and sequence accession numbers in this study

Species	Strains	GenBank accession No.			
		ITS	β -tubulin	RPB2	CaM
<i>Aspergillus aculeatus</i>	CBS172.66	FJ629320	HE577806	JN121448	FN594542
<i>A. aculeatinus</i>	CBS121060	MH863102	EU159220	HF559233	EU159241
<i>A. amoenus</i>	NRRL4838	EF652480	JN853946	JN853824	JN854035
<i>A. austroafricanus</i>	NRRL233	JQ301891	JN853963	JN853814	JN854025
<i>A. baeticus</i>	CCF4226	HE615086	HE615092	HE615124	HE615117
<i>A. brevijanans</i>	NRRL1935	EF669582	EU014078	EF669624	EF669540
<i>A. brunneoviolaceus</i>	PW4049 = CMV011A2	LC567897	MK451181	MK450776	MK451327
<i>A. brunneoviolaceus</i>	PW4122 = CMV011A3	LC519916	MK451182	MK450777	MK451328
<i>A. brunneoviolaceus</i>	NRRL4912	EF661220	EF661105	EF661045	EF661147
<i>A. brunneoviolaceus</i>	HZ10	MZ168683	MZ168684	MZ168682	MZ168681
<i>A. brunneoviolaceus</i>	HZ23	MZ168687	MZ168685	MZ168688	MZ168686
<i>A. campestris</i>	NRRL13001	EF669577	EU014091	EF669619	EF669535
<i>A. candidus</i>	NRRL303	EF669592	EU014089	EF669634	EF669550
<i>A. capensis</i>	DTO179E6	KJ775550	KJ775072	KP987020	KJ775279
<i>A. creber</i>	NRRL58592	JQ301889	JN853980	JN853832	JN854043
<i>A. cyjetkovicii</i>	NRRL227	EF652440	EF652264	EF652176	EF652352
<i>A. flavipes</i>	NRRL302	EF669591	EU014085	EF669633	EF669549
<i>A. floridensis</i>	ITEM14783 = DTO198A8	MN431366	HE984412	HE984376	HE984429
<i>A. fructus</i>	NRRL239	EF652449	EF652273	EF652185	EF652361
<i>A. fruticosus</i>	NRRL4903	EF652483	EF652307	EF652219	EF652395
<i>A. heterothallicus</i>	NRRL5096	EF652499	EF652323	EF652235	EF652411
<i>A. iizukaelo</i>	NRRL3750	EF669597	EU014086	EF669639	EF669555
<i>A. iizukaelo</i>	NRRL35046	EF669596	EU014087	EF669638	EF669554
<i>A. janus</i>	NRRL1787	EF669578	EU014076	EF669620	EF669536
<i>A. jensenii</i>	NRRL58600	JQ301892	JN854007	JN853835	JN854046
<i>A. luppii</i>	NRRL6326 = CBS653.74	EF669617	EU014079	JN121545	EF669575
<i>A. niveoglaucus</i>	CBS101750	HE615135	HE801331	HE801312	HE801323
<i>A. protuberus</i>	NRRL3505	EF652460	EF652284	EF652196	EF652372
<i>A. puniceus</i>	NRRL5077	EF652498	EF652322	EF652234	EF652410
<i>A. puniceus</i>	NRRL1852	EF652425	EF652249	EF652161	EF652337
<i>A. puniceus</i>	NRRL4688	EF652469	EF652293	EF652205	EF652381
<i>A. puulaauensis</i>	NRRL35641	JQ301893	JN853979	JN853823	JN854034
<i>A. saccharolyticus</i>	CBS127449	HM853552	HM853553	HF559235	HM853554
<i>A. subalbidus</i>	NRRL5214	LT908114	LT908034	LT908036	LT908035
<i>A. subversicolor</i>	NRRL58999	JQ301894	JN853970	JN853799	JN854010
<i>A. sydowii</i>	NRRL250	EF652450	EF652274	EF652186	EF652362
<i>A. tabacinus</i>	NRRL4791	EF652478	EF652302	EF652214	EF652390

<i>A. tennesseensis</i>	NRRL13150	JQ301895	JN853976	JN853806	JN854017
<i>A. trinidadensis</i>	ITEM14821 = DTO198D1	MN431380	HE984420	HE984379	HE984434
<i>A. tritici</i>	CBS266.81	MN431381	MN969368	MN969098	MN969233
<i>A. tubingensis</i>	NRRL62644	KC796398	KC796370	KC796437	KC796386
<i>A. tubingensis</i>	NRRL62643	KC796397	KC796369	KC796436	KC796385
<i>A. tubingensis</i>	NRRL62639	KC796393	KC796365	KC796432	KC796381
<i>A. tubingensis</i>	NRRL4866	KC796387	KC796363	KC796422	KC796379
<i>A. tubingensis</i>	HZ123	MZ168696	MZ168693	MZ168695	MZ168694
<i>A. ustus</i>	NRRL4991	EF652492	EF652316	EF652228	EF652404
<i>A. ustus</i>	NRRL275	EF652455	EF652279	EF652191	EF652367
<i>A. venenatus</i>	NRRL13147	JQ301896	JN854003	JN853803	JN854014
<i>A. versicolor</i>	NRRL238	EF652442	EF652266	EF652178	EF652354
<i>A. violaceofuscus</i>	CBS102.23 = CBS123.17	MH854737	HE577805	HF559234	FJ491698
<i>Penicillium alfredii</i>	DTO269A4	KJ775684	KJ775177	KJ834520	KJ775411
<i>P. brefeldianum</i>	NRRL710	AF033435	EU021669	EU021658	EU021683
<i>P. chermesinum</i>	CBS231.81 = NRRL2048	AY74269 3	KJ834441	MN969111	AY741728
<i>P. cinnamopurpureum</i>	NRRL162 = CBS847.68	EF626950	EF626948	JN406533	EF626949
<i>P. ellipsoideosporum</i>	CBS112493 = AS3.5688	JX012224	JQ965104	JN121427	AY678559
<i>P. idahoense</i>	NRRL5274 = CBS341.68	EF626955	EF626953	JN121499	EF626954
<i>P. incoloratum</i>	CBS101753	KJ834508	KJ834457	JN406651	KJ866984
<i>P. infrapurpureum</i>	CBS138219 = DTO235F6	KJ775679	KJ775172	MN969120	KJ775406
<i>P. jamesonlandense</i>	IBT21985	KY989164	KY989039	KY989214	KY989101
<i>P. janthinellum</i>	CBS340.48	GU981585	GU981625	GU981625	MN969268
<i>P. javanicum</i>	CBS341.48	GU981613	GU981657	JN121498	MN969269
<i>P. kojigenum</i>	CBS345.61 = NRRL3442	AF033489	KJ834463	JN406564	KJ867011
<i>P. lanosum</i>	CBS106.11 = NRRL2009	MH854599	DQ285627	JN121420	FJ530974
<i>P. malacaense</i>	NRRL35754	EU427300	EU427268	EU427261	KF932944
<i>P. nodulum</i>	CBS227.89	KC411703	KJ834475	JN406603	KJ867003
<i>P. oxalicum</i>	CBS219.30	MH855125	KF296462	JN121456	MN969283
<i>P. oxalicum</i>	CV822	JX091431	JX091528	KF296448	JX141543
<i>P. oxalicum</i>	5648= ITEM7573	KJ527449	KJ527414	KJ527379	AY678546
<i>P. oxalicum</i>	HZ06	MZ168691	MZ168689	MZ168692	MZ168690
<i>P. parvulum</i>	CBS132825= NRRL35504	EF422845	EF506218	MN969131	EF506225
<i>P. penarojense</i>	CBS113178	GU981570	GU981646	KF296450	MN969287
<i>P. piscarium</i>	CBS362.48	GU981600	GU981668	KF296451	MN969288

<i>P. raistrickii</i>	CBS261.33	JN617697	KJ834485	JN606589	KJ867006
<i>P. ribeum</i>	CBS127809	MH864716	MN969395	JN406631	KJ866995
<i>P. sajarovii</i>	CBS277.83	KC411724	MN969397	JN406588	KJ867007
<i>P. scabrosum</i>	CBS683.89= DAOM21478 6	DQ267906	DQ285610	JN406541	FJ530987
<i>P. shennangjianum</i>	CBS228.89= AS3.4526	MH862167	KJ834491	JN121458	AY678561
<i>P. skrjabinii</i>	CBS439.75= NRRL13055	MH860934	GU981626	EU427252	MN969299
<i>P. soppii</i>	CBS226.28	MH854995	MN969399	JN406606	KJ867002
<i>P. swiecickii</i>	CBS119391= NRRL918	AF033490	KJ834494	JN406635	KJ866993
<i>P. vanderhammenii</i>	CBS126216	MH863982	GU981647	KF296458	MN969308
<i>P. virgatum</i>	CBS114838	AJ748692	KJ834500	JN406641	KJ866992
<i>P. wotroi</i>	CBS118171	GU981591	GU981637	KF296460	MN969313
<i>P. zonatum</i>	CBS992.72	GU981581	GU981651	KF296461	MN969315
<i>Aspergillus robustus</i>	NRRL6362	EF661176	EU014101	EF661033	EF661127
<i>Talaromyces flavus</i>	CBS310.38	MH867464	JX494302	JF417426	KF741949
