

Supplementary Material

Supplementary Table 1 Strains of *Fusarium fujikuroi* species complex used in phylogenetic analysis

Species	Culture collection number	GenBank accession number				
		<i>tefl</i>	<i>tub2</i>	<i>cmdA</i>	<i>rpb2</i>	<i>rpb1</i>
<i>F. acutatum</i>	CBS 401.97	MW402124	MW402322	MW402458	MW402813	MW402652
	CBS 402.97 ^T	MW402125	MW402323	MW402459	MW402768	MW402653
	CBS 739.97	AF160276	MW402348	AF158329	MN193883	MW402696
<i>F. agapanthi</i>	CBS 100193	MW401959	MW402160	MW402363	MW402727	MW402491
	NRRL 54463 ^T	KU900630	KU900635	KU900611	KU900625	KU900620
	NRRL 54464	MN193856	KU900637	KU900613	KU900627	MW402718
<i>F. aglaonemae</i>	ZHKUCC 22-0077	ON330437	ON330440	ON330434	ON330443	ON330446
	ZHKUCC 22-0078	ON330438	ON330441	ON330435	ON330444	ON330447
	ZHKUCC 22-0079	ON330439	ON330442	ON330436	ON330445	ON330448
<i>F. ananatum</i>	CBS 118516 ^T	LT996091	MN534089	MW402376	LT996137	MW402507
	CBS 118517	MN533988	MN534090	MN534157	MN534229	MW402508
	CBS 184.29	MW402105	MW402303	MW402445	MW402809	MW402629
<i>F. andiyazi</i>	CBS 119856	MN533989	MN534081	MN534174	MN534286	MW402523
	CBS 119857 ^T	MN193854	LT996113	MN534175	LT996138	MW402524
<i>F. annulatum</i>	CBS 115.97	MW401973	MW402173	MW402373	MW402785	MW402503
	CBS 258.54 ^T	MT010994	MT011041	MT010908	MT010983	MT010944
	CBS 135.95	MW402043	MW402242	MW402408	MW402745	MW402571
<i>F. anthophilum</i>	CBS 119858	MN533990	MN534091	MN534158	MN534232	MW402525
	CBS 119859	MN533991	MN534092	MN534164	MN534233	MW402526
	CBS 222.76 ^{ET}	MW402114	MW402312	MW402451	MW402811	MW402641
<i>F. aquaticum</i>	LC13615	MW580446	MW533728	MW566273	MW474392	MW024437
	LC13616	MW580447	MW533729	MW566274	MW474393	MW024438
	LC7502 ^T	MW580448	MW533730	MW566275	MW474394	MW024439
<i>F. awaxy</i>	CBS 119831	MN534056	MN534108	MN534167	MN534237	MW402514
	CBS 119832	MN534057	MN534106	MN534170	MN534240	MW402515
<i>F. bactridioides</i>	CBS 100057 ^T	MN533993	MN534112	MN534173	MN534235	MW402490
	NRRL 20476	AF160290	U34434	AF158343	–	–

Supplementary Table 1 (Continued)

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		<i>tefl</i>	<i>tub2</i>	<i>cmdA</i>	<i>rpb2</i>	<i>rpb1</i>
<i>F. begoniae</i>	CBS 403.97	MN193858	U61543	MW402460	MN193886	MW402654
	CBS 452.97 ^T	MN533994	MN534101	MN534163	MN534243	MW402675
<i>F. brevicatenulatum</i>	CBS 404.97 ^T	MN533995	MN534063	–	MN534295	MW402655
	CBS 100196	MN193859	–	–	MN193887	MW402492
<i>F. bulbicola</i>	CBS 220.76 ^T	KF466415	KF466437	MW402450	MW402767	–
<i>F. chinhoiense</i>	NRRL 25221 ^T	MN534050	MN534082	MN534196	MN534262	MW402711
	NY 001B5	MN534051	MN534083	MN534197	MN534263	MW402725
<i>F. circinatum</i>	CBS 405.97 ^T	MN533997	MN534097	MN534199	MN534252	MW402656
	CBS 141671	MW402083	MW402282	MW402427	MW402807	MW402610
	CBS 119864	MW401996	MW402196	MW402389	MW402736	MW402528
<i>F. coicis</i>	NRRL 66233 ^T	KP083251	LT996115	LT996178	KP083274	–
<i>F. concentricum</i>	CBS 450.97 ^T	AF160282	MW402334	MW402467	JF741086	MW402674
	CBS 453.97	MN533998	MN534123	MN534216	MN534264	MW402676
<i>F. denticulatum</i>	CBS 406.97	MN533999	MN534067	MN534185	MN534273	MW402657
	CBS 407.97 ^T	MN534000	MN534068	MN534186	MN534274	MW402658
	CBS 735.97	AF160269	U61550	AF158322	LT996143	–
<i>F. dlaminii</i>	CBS 671.94	MN534004	MN534136	MN534152	MN534254	MW402690
	CBS 672.94	MN534005	MN534137	MN534153	MN534255	MW402691
	CBS 119860 ^T	MW401995	MW402195	MW402388	KU171701	KU171681
<i>F. echinatum</i>	CBS 146496	MW834272	MW834300	MW834109	MW834003	MW834186
	CBS 146497 ^T	MW834273	MW834301	MW834110	MW834004	MW834187
<i>F. elaeagni</i>	LC13627 ^T	MW580466	MW533748	MW566293	MW474412	MW024457
	LC13628	MW580467	MW533749	MW566294	MW474413	MW024458
	LC13629	MW580468	MW533750	MW566295	MW474414	MW024459
<i>F. ficicrescens</i>	CBS 125177	MN534006	MN534071	MN534176	MN534281	MW402545
	CBS 125178 ^T	KU604452	KP662896	KU603958	KT154002	MW402546
	CBS 125181	MN534007	MN534072	MN534177	MN534282	MW402548
<i>F. fractiflexum</i>	NRRL 28852 ^T	AF160288	AF160315	AF158341	LT575064	–
<i>F. fredkrugeri</i>	CBS 408.97	MW402126	MW402324	MW402461	MW402814	–
	CBS 144209 ^T	LT996097	LT996118	LT996181	LT996147	LT996199
	CBS 144495	LT996096	LT996117	LT996180	LT996146	LT996198

Supplementary Table 1 (Continued)

Species	Culture collection number	GenBank accession number				
		<i>tefl</i>	<i>tub2</i>	<i>cmdA</i>	<i>rpb2</i>	<i>rpb1</i>
<i>F. fujikuroi</i>	CBS 221.76 ^T	MN534010	MN534130	–	KU604255	MW402640
	CBS 257.52	MW402119	MW402317	MW402454	MW402812	MW402645
	CBS 265.54	MN534011	MN534132	MN534222	MN534268	MW402650
<i>F. globosum</i>	CBS 428.97 ^T	KF466417	MN534124	MN534218	KF466406	MW402668
	CBS 430.97	MN534013	MN534125	MN534219	MN534265	–
<i>F. globosum</i> (cont.)	CBS 120992	MW401998	MW402198	MW402390	MW402788	MW402529
<i>F. guttiforme</i>	CBS 409.97 ^T	MT010999	MT011048	MT010901	MT010967	MT010938
	NRRL 22945	AF160297	U34420	AF158350	JX171618	JX171505
<i>F. hechiense</i>	LC13644 ^T	MW580494	MW533773	MW566321	MW474440	MW024482
	LC13645	MW580495	MW533774	MW566322	MW474441	MW024483
	LC13646	MW580496	MW533775	MW566323	MW474442	MW024484
<i>F. konzum</i>	CBS 119849 ^T	LT996098	MN534095	LT996182	MW402733	MW402519
	CBS 139382	MW402071	MW402270	MW402418	MW402804	MW402598
	CBS 139383	MN534014	MN534094	MN534200	MN534244	MW402599
<i>F. lactis</i>	CBS 411.97 ^{ET}	MN193862	MN534077	MN534178	MN534275	MW402659
	CBS 420.97	MN534015	MN534078	MN534181	MN534296	MW402667
<i>F. longicornicola</i>	NRRL 52706 ^T	JF740788	MW402360	MW402487	JF741114	–
	NRRL 52712	JF740794	MW402361	MW402488	JF741120	MW402716
	NRRL 52713	JF740795	MW402362	MW402489	JF741121	MW402717
<i>F. lumajangense</i>	InaCCF872 ^T	LS479441	LS479433	–	LS479850	–
	InaCCF993	LS479442	LS479434	–	LS479851	–
<i>F. madaense</i>	CBS 146651	MW402096	MW402295	MW402437	MW402762	MW402617
	CBS 146656	MW402097	MW402296	MW402438	MW402763	MW402618
	CBS 146669 ^T	MW402098	MW402297	MW402439	MW402764	MW402619
<i>F. mangiferae</i>	CBS 119853	MN534016	MN534140	MN534225	MN534270	MW402522
	CBS 120994 ^T	MN534017	MN534128	MN534224	MN534271	MW402530
	NRRL 25226	AF160281	U61561	AF158334	HM068353	MW402712
<i>F. mexicanum</i>	NRRL 47473	GU737416	GU737308	GU737389	LR792615	LR792579
	NRRL 53147 ^T	GU737282	GU737494	–	MN724973	MG838088
<i>F. mundagurra</i>	RGB5717 ^T	KP083256	MN534146	MN534214	KP083276	–
<i>F. musae</i>	CBS 624.87 ^T	FN552086	FN545368	MW402474	MW402772	MW402689
	NRRL 28893	FN552092	FN545374	FN552070	FN552114	–

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Species	Culture collection number	GenBank accession number				
		<i>tefl</i>	<i>tub2</i>	<i>cmdA</i>	<i>rpb2</i>	<i>rpb1</i>
<i>F. napiforme</i>	CBS 748.97 ^T	MN193863	MN534085	MN534192	MN534291	MW402701
	CBS 135139	MN534019	MN534084	MN534183	MN534290	MW402572
	CBS 135141	MW402045	MW402244	–	MW402797	MW402573
<i>F. nirenbergiae</i>	CBS 744.97	AF160312	U34424	AF158365	LT575065	–
<i>F. nygamai</i>	CBS 749.97 ^T	MW402151	MW402352	MW402479	EF470114	MW402703
	CBS 834.85	MW402154	MW402355	MW402482	MW402821	MW402707
	CBS 119852	MW401992	MW402192	MW402386	MW402734	MW402521
<i>F. ophioides</i>	CBS 118512 ^T	MN534022	MN534118	MN534209	MN534303	–
	CBS 118513	MN534023	MN534119	MN534202	MN534300	–
	CBS 118514	MN534024	MN534117	MN534206	MN534302	–
<i>F. panlongense</i>	LC13656 ^T	MW580510	MW533789	MW566337	MW474456	MW024498
	MUCL 55958	LT574913	LT575078	LT575159	LT574994	–
	MUCL 55950	LT574905	LT575070	LT575151	LT574986	–
	MUCL 55954	LT574909	LT575074	LT575155	LT574990	–
<i>F. parvisorum</i>	CMW 25267 ^T	KJ541060	KJ541055	–	–	–
<i>F. phyllophilum</i>	CBS 216.76 ^T	MN193864	KF466443	KF466333	KF466410	MW402637
	CBS 246.61	MW402118	MW402316	MW402453	–	MW402644
<i>F. pilosicola</i>	NRRL 29123	MN534054	MN534098	MN534165	MN534247	–
	NRRL 29124 ^T	MN534055	MN534099	MN534159	MN534248	–
<i>F. prieskaense</i>	CPC 30825	MW834274	MW834302	MW834111	MW834006	MW834189
	CBS 146498 ^T	MW834275	MW834303	MW834112	MW834007	MW834190
	CBS 146499	MW834276	MW834304	MW834113	MW834008	MW834191
<i>F. proliferatum</i>	CBS 480.96E ^T	MN534059	MN534129	MN534217	MN534272	–
<i>F. pseudoanthophilum</i>	CBS 414.97 ^T	MW402128	MW402326	MW402463	–	MW402661
	CBS 745.97	MW402148	MW402349	MW402476	MW402820	MW402697
<i>F. pseudocircinatum</i>	CBS 449.97 ^T	AF160271	MN534069	MN534190	MN534277	MW402673
	CBS 455.97	MN534029	MN534070	MN534184	MN534276	–
<i>F. pseudonygamai</i>	CBS 416.97	MN534030	MN534064	MN534194	MN534283	MW402663
	CBS 417.97 ^T	AF160263	MN534066	AF158316	MN534285	MW402664
	CBS 484.94	MN534031	MN534065	MN534195	MN534284	MW402681
<i>F. ramigenum</i>	CBS 418.97 ^T	KF466423	MN534145	MN534187	KF466412	MW402665

Supplementary Table 1 (Continued)

Species	Culture collection number	GenBank accession number				
		<i>tefl</i>	<i>tub2</i>	<i>cmdA</i>	<i>rpb2</i>	<i>rpb1</i>
<i>F. ramigenum</i>	CBS 526.97	MN534032	MN534086	MN534188	MN534292	MW402682
<i>F. sacchari</i>	CBS 223.76 ^{ET}	MW402115	MW402313	AF158331	JX171580	–
	CBS 131372	MN534033	MN534134	MN534226	MN534293	MW402560
	CBS 131370	MW402031	MW402230	MW402404	MW402793	MW402558
<i>F. secorum</i>	NRRL 62593 ^T	KJ189225	–	KJ189235	–	–
	NRRL 62594	KJ189228	–	KJ189238	–	–
<i>F. siculi</i>	CBS 142222 ^T	LT746214	LT746346	LT746189	LT746327	–
	CPC 27189	LT746215	LT746347	LT746190	LT746328	–
<i>F. sterilihyposum</i>	NRRL 25623 ^T	MN193869	AF160316	AF158353	MN193897	MW402713
<i>F. Sterilihyposum</i> (cont.)	NRRL 53991	GU737413	GU737305	GU737386	–	–
	NRRL 53997	GU737414	GU737306	GU737387	–	–
<i>F. subglutinans</i>	CBS 536.95	MW402139	MW402339	MW402471	MW402836	MW402685
	CBS 747.97 ^{NT}	MW402150	MW402351	MW402478	MW402773	MW402700
	CBS 136481	MW402059	MW402258	MW402413	MW402748	MW402585
<i>F. succisae</i>	CBS 187.34	MW402109	MW402307	MW402448	MW402810	–
	CBS 219.76 ^{ET}	AF160291	U34419	AF158344	MW402766	MW402639
<i>F. sudanense</i>	CBS 454.97 ^T	MN534037	MN534073	MN534179	MN534278	MW402677
	CBS 675.94	MN534038	MN534074	MN534182	MN534279	MW402693
<i>F. temperatum</i>	CBS 135538	MN534039	MN534111	MN534168	MN534239	MW402575
	CBS 135539	MN534040	MN534110	MN534169	MN534242	MW402576
	MUCL 52463 ^T	–	MW402359	MW402486	MW402776	–
<i>F. terricola</i>	CBS 483.94 ^T	MN534042	MN534076	MN534189	LT996156	MW402680
	CBS 119850	MN534041	MN534075	MN534180	MN534280	MW402520
<i>F. thapsinum</i>	CBS 776.96 ^T	MN534044	MN534080	–	MN534289	MW402704
	CBS 100312	MW401961	MW402162	MW402365	MW402780	MW402494
	CBS 100313	MW401962	MW402163	MW402366	MW402781	MW402495
<i>F. tjaetaba</i>	NRRL 66243 ^T	KP083263	GU737296	LT996187	KP083275	–
<i>F. tupiense</i>	CML345	DQ452861	DQ445783	–	–	–
<i>F. udum</i>	CBS 178.32	AF160275	U34433	MW402442	LT996172	MW402624
	CBS 747.79	MN193872	MN534141	MN534154	MN534258	MW402699
<i>F. verticillioides</i>	CBS 125.73	MW402012	MW402212	MW402392	MW402791	MW402543
<i>F. verticillioides</i>	CBS 447.95	MW402133	MW402332	MW402466	MW402770	MW402671

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Species	Culture collection number	GenBank accession number				
		<i>tefl</i>	<i>tub2</i>	<i>cmdA</i>	<i>rpb2</i>	<i>rpb1</i>
<i>F. verticillioides</i>	CBS 531.95	MW402136	MW402336	MW402468	MW402771	MW402683
<i>F. volatile</i>	CBS 143874 ^T	LR596007	LR596008	MK984595	LR596006	–
<i>F. volatile</i>	NRRL 25615	AF160304	AF160320	AF158357	–	–
<i>F. werrikimbe</i>	CBS 125535 ^T	–	MN534104	MN534203	MN534304	–
<i>F. xylarioides</i>	CBS 258.52 ^T	MN193874	AY707118	MW402455	HM068355	MW402646
<i>F. xylarioides</i>	CBS 749.79	MN534049	MN534143	AF158326	MN534259	MW402702
<i>F. xyrophilum</i>	NRRL 62710	MN193875	–	–	MN193903	MW402720
	NRRL 62721 ^T	MN193877	–	–	MN193905	MW402721

The isolates obtained in this study are bold.
T=Ex-type specimen. ET=Ex-epitype specimen.

