

**Table** – Host/substrate, geographical origin, collection codes and sequence GenBank accession numbers of *Fusarium* spp. reference strains from *Fusarium fujikuroi* (FFSC) species complex used for phylogenetic analysis

Species	Host/Substrate	Origin	Collection <sup>a</sup>	GenBank accession <sup>b</sup>					References
				<i>EF-1α</i>	<i>TUB2</i>	<i>ITS</i>	<i>CAL</i>	<i>RPB2</i>	
<i>F. acutatum</i>	Unknown	India	NRRL 13309	KR071754	-	-	-	-	(Al-Hatmi et al. 2016c);
<i>F. agapanthi</i>	<i>Agapanthus praecox</i>	Australia	NRRL 54463	KU900630	KU900635	-	KU900611	KU900625	(Edwards et al. 2016)
<i>F. ananatum</i>	<i>Ananas comosus</i>	South Africa	CBS 118516	LT996091	LT996112	-	LT996175	LT996137	(Sandoval-Denis et al. 2018b)
<i>F. andiyazi</i>	<i>Sorghum bicolor</i>	South Africa	NRRL 53928	KR071718	-	-	-	-	(Al-Hatmi et al. 2016c);
<i>F. anthophilum</i>	<i>Hippeastrum</i> sp.	Germany	NRRL 13602	AF160292	U61541	KU604033	LT996177	LT996139	(O'Donnell et al. 1998, 2000; Sandoval-Denis et al. 2018b); (Al-Hatmi et al., unpublished)
<i>F. awaxy</i>	<i>Zea mays</i>	Brazil	LGMF1930	MG839004	MG839013	MH252922	MK766940	MK766941	(Crous et al. 2019)
	<i>Zea mays</i>	Brazil	LGMF1661 MRC115	MG838954	MG839011	MH252921	MK766939	-	(Crous et al. 2019)
	<i>Zea mays</i>	South Africa	(ATCC 38016)	AB674285	AB587056	AB587008	-	-	(Watanabe et al. 2011)
	<i>Zea mays</i>	Argentina	1.1	MG857113	-	-	-	-	(Martinez et al., unpublished)
	<i>Zea mays</i>	Brazil	RV23-2	KP336408	-	-	-	-	(Faria et al. 2012)
	<i>Zea mays</i>	South Korea	OS15	JX867945	-	-	-	-	(Kim et al. 2012)
	<i>Zea mays</i>	China	Fs_hap3	KT716223	-	-	-	-	(Zhang et al. 2016)
<i>F. bactridioides</i>	<i>Cronartium conigenum</i>	USA	NRRL 20476	AF160290	U34434	U34576	AF158343	-	(Funnell-Harris et al. 2017)
									(O'Donnell and Cigelnik 1997; O'Donnell et al. 2000)
<i>F. begoniae</i>	<i>Begonia elatior</i>	Germany	NRRL 25300	AF160293	U61543	U61673	AF158346	LT996140	(O'Donnell et al. 1998, 2000; Sandoval-Denis et al. 2018b)
<i>F. brevicatenulatum</i>	<i>Striga asiatica</i>	Madagascar	NRRL 25446	AF160265	-	-	-	-	(O'Donnell et al. 2000)
<i>F. bulbicola</i>	<i>Nerine bowdenii</i>	Netherlands	NRRL 13618	AF160294	U61546	U61676	KF466327	KF466404	(O'Donnell et al. 1998, 2000; Proctor et al. 2013)
<i>F. circinatum</i>	<i>Pinus radiata</i>	USA	NRRL 25331	AF160295	-	-	-	-	(O'Donnell et al. 2000)
<i>F. coicis</i>	<i>Coix gasteenii</i>	Australia	NRRL 66233	KP083251	LT996115	-	-	-	(Laurence et al. 2016; Sandoval-Denis et al. 2018b)
<i>F. concentricum</i>	<i>Musa sapientum</i>	Costa Rica	NRRL 25181	AF160282	-	-	-	-	(O'Donnell et al. 2000)
<i>F. denticulatum</i>	<i>Ipomoea batatas</i>	USA	NRRL 25302	AF160269	-	-	-	-	(O'Donnell et al. 2000)
<i>F. dlamini</i>	<i>Zea mays</i> (Field soil)	South Africa	NRRL 13164	AF160277	-	-	-	-	(O'Donnell et al. 2000)
<i>F. ficicrescens</i>	<i>Ficus carica</i>	Iran	CBS 125178	KP662899	KP662896	-	-	-	(Al-Hatmi et al. 2016b)
<i>F. fracticaudum</i>	<i>Pinus maximinoi</i>	Colombia	CBS 137233	KJ541059	-	-	-	-	(Herron et al. 2015)
<i>F. fractiflexum</i>	<i>Cymbidium</i> sp.	Japan	NRRL 28852	AF160288	-	-	-	-	(O'Donnell et al. 2000)
<i>F. fredkrugeri</i>	<i>Melhanian acuminata</i> rhizosphere	South Africa	CBS 144209	LT996097	-	-	-	-	(Sandoval-Denis et al. 2018b)
<i>F. fujikuroi</i>	<i>Oryza sativa</i>	Taiwan	NRRL 13998	KR071741	-	-	-	-	(Al-Hatmi et al. 2016c)

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				<i>EF-1α</i>	<i>TUB2</i>	<i>ITS</i>	<i>CAL</i>	<i>RPB2</i>	
<i>F. globosum</i>	<i>Zea mays</i>	South Africa	NRRL 26131	AF160285	KF466439	-	-	-	(O'Donnell et al. 2000; Proctor et al. 2013)
<i>F. guttiforme</i>	<i>Ananas comosus</i>	Brazil	MRC 7539	DQ282165	-	-	HM204762	-	(Jacobs et al. 2010); (Jacobs et al., unpublished)
<i>F. konzum</i>	<i>Sorghastrum nuttans</i>	USA	CBS 119849	LT996098	LT996118	-	LT996182	LT996148	(Sandoval-Denis et al. 2018b)
<i>F. lactis</i>	<i>Ficus carica</i>	USA	NRRL 25200	AF160272	-	-	-	-	(O'Donnell et al. 2000)
<i>F. lumajangense</i>	<i>Musa sp. var. Pisang Raja Nangka</i>	Indonesia	InaCC F872	LS479441	LS479433	-	-	-	(Maryani et al. 2019)
<i>F. mangiferae</i>	<i>Mangifera indica</i>	India	NRRL 25226	AF160281	-	-	-	-	(O'Donnell et al. 2000)
<i>F. marasasianum</i>	<i>Pinus patula</i>	Colombia	CBS 137238	KJ541063	KJ541054	-	-	-	(Herron et al. 2015)
<i>F. mexicanum</i>	<i>Mangifera indica</i>	Mexico	NRRL 53147	GU737282	GU737494	MG838062	GU737389	-	(Otero-Colina et al. 2010; Santillán-Mendoza et al. 2018)
<i>F. mundagurra</i>	Soil	Australia	NRRL 66235	KP083256	-	-	-	-	(Laurence et al. 2016)
<i>F. musae</i>	<i>Musa sapientum</i>	Honduras	NRRL 25059	FN552086	-	-	-	-	(Van Hove et al. 2011)
<i>F. napiforme</i>	<i>Pennisetum typhoides</i>	South Africa	NRRL 13604	AF160266	-	-	-	-	(O'Donnell et al. 2000)
<i>F. nygamai</i>	<i>Sorghum bicolor</i>	Australia	NRRL 13488	AF160273	-	-	-	-	(O'Donnell et al. 2000)
<i>F. parvisorum</i>	<i>Pinus patula</i>	Colombia	CBS 137236	KJ541060	KJ541055	-	LT996183	LT996150	(Herron et al. 2015; Sandoval-Denis et al. 2018b)
<i>F. phyllophilum</i>	<i>Dracaena deremensis</i>	Italy	NRRL 13617	AF160274	-	-	-	-	(O'Donnell et al. 2000)
<i>F. pininemorale</i>	<i>Pinus tecunumanii</i>	Colombia	CBS 137240	KJ541064	KJ541049	-	-	-	(Herron et al. 2015)
<i>F. proliferatum</i>	<i>Cattleya sp.</i>	Germany	NRRL 22944	AF160280	-	-	-	-	(O'Donnell et al. 2000)
<i>F. pseudoanthophilum</i>	<i>Zea mays</i>	Zimbabwe	NRRL 25206	AF160264	-	-	-	-	(O'Donnell et al. 2000)
<i>F. pseudocircinatum</i>	<i>Solanum sp.</i>	Ghana	NRRL 22946	AF160271	-	-	-	-	(O'Donnell et al., 2000b)
<i>F. pseudonygamai</i>	<i>Pennisetum typhoides</i>	Nigeria	NRRL 13592	AF160263	-	-	-	-	(O'Donnell et al., 2000b)
<i>F. ramigenum</i>	<i>Ficus carica</i>	USA	NRRL 25208	AF160267	-	-	-	-	(O'Donnell et al. 2000)
<i>F. sacchari</i>	<i>Saccharum officinarum</i>	India	NRRL 13999	AF160278	-	-	-	-	(O'Donnell et al., 2000b)
<i>F. secorum</i>	<i>Beta vulgaris</i>	USA	NRRL 62593	KJ189225	-	-	-	-	(Secor et al. 2014)
<i>F. siculi</i>	<i>Citrus sinensis</i>	Italy	CBS 142422	LT746214	LT746346	-	-	-	(Sandoval-Denis et al. 2018a)
<i>F. sororula</i>	<i>Pinus patula</i>	Colombia	CBS 137242	KJ541067	KJ541057	-	LT996184	LT996153	(Herron et al. 2015; Sandoval-Denis et al. 2018b)
<i>F. sterilihyphosum</i>	<i>Mangifera indica</i>	South Africa	NRRL 25623	AF160300	AF160316	AF158305	AF158353	-	(O'Donnell et al. 2000)
<i>F. subglutinans</i>	<i>Zea mays</i>	USA	NRRL 22016	AF160289	U34417	U34559	AF158342	JX171599	(O'Donnell and Cigelnik 1997; O'Donnell et al. 2000, 2013)
	<i>Zea mays</i>	Belgium	MUCL 52468	HM067691	HM067699	-	-	-	(Scauflaire et al. 2011)
	<i>Zea mays</i>	South Africa	NRRL 53904	KR071769	KU603892	KR071624	KU603983	KU604281	(Al-Hatmi et al. 2016c); (Al-Hatmi et al., unpublished)
	Human blood	Italy	NRRL 54158	KR071770	KU603893	KR071625	KU603982	KU604282	(Al-Hatmi et al. 2016c); (Al-Hatmi et al., unpublished)

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				<i>EF-1α</i>	<i>TUB2</i>	<i>ITS</i>	<i>CAL</i>	<i>RPB2</i>	
<i>F. succisae</i>	<i>Succisa pratensis</i>	Germany	NRRL 13613	AF160291	U34419	U34561	AF158344	LT996154	(O'Donnell and Cigelnik 1997; O'Donnell et al. 2000; Sandoval-Denis et al. 2018b)
<i>F. sudanense</i>	<i>Striga hermonthica</i>	Sudan	<b>NRRL 26793</b>	KU711697	KU603909	-	-	-	(Moussa et al. 2017)
<i>F. temperatum</i>	<i>Zea mays</i>	Belgium	<b>MUCL 52450</b>	HM067687	HM067695	-	-	-	(Scauflaire et al. 2011); (O'Donnell et al. 2000); (Sandoval-Denis et al., unpublished)
	<i>Zea mays</i>	South Africa	NRRL 25622	AF160301	AF160317	AF158306	AF158354	LT970765	(Moussa et al. 2017)
<i>F. terricola</i>	Desert soil	Australia	<b>NRRL 36490</b>	KU711698	-	-	-	-	(O'Donnell et al., 2000b)
<i>F. thapsinum</i>	<i>Sorghum bicolor</i>	South Africa	NRRL 22045	AF160270	-	-	-	-	(Laurence et al. 2016)
<i>F. tjaetaba</i>	<i>Sorghum interjectum</i>	Australia	<b>NRRL 66243</b>	KP083263	-	-	-	-	(Otero-Colina et al. 2010; Lima et al. 2012)
<i>F. tuiense</i>	<i>Mangifera indica</i>	Brazil	<b>NRRL 53984</b>	DQ452859	DQ445781	-	GU737377	-	(O'Donnell et al., 2000b)
<i>F. udum</i>	Unknown	Germany	NRRL 22949	AF160275	-	-	-	-	(O'Donnell et al., 2000b)
<i>F. verticillioides</i>	<i>Zea mays</i>	Germany	NRRL 22172	AF160262	-	-	-	-	(Walsh et al. 2010; Vu et al. 2019)
<i>F. werrikimbe</i>	<i>Sorghum leiocladium</i>	Australia	<b>CBS 125535</b>	EF107131	EF107133	MH863588	-	-	(Geiser et al. 2005)
<i>F. xylarioides</i>	<i>Coffea</i> sp.	Ivory Coast	<b>NRRL 25486</b>	AY707136	-	-	-	-	(O'Donnell et al. 2000)
<i>Fusarium</i> sp.	<i>Sorghum bicolor</i>	Tanzania	NRRL 26064	AF160302	-	-	-	-	(O'Donnell et al. 2000)
	<i>Zea mays</i>	Zimbabwe	NRRL 25221	AF160268	-	-	-	-	(O'Donnell et al. 2000)
	<i>Oryza sativa</i>	Nigeria	NRRL 25615	AF160304	-	-	-	-	(O'Donnell et al. 1998, 2000)
	Soil	Australia	NRRL 25807	AF160305	U61542	U61672	AF158358	-	(O'Donnell et al. 1998, 2000)
	Wood	Venezuela	NRRL 25195	AF160298	U61558	U61688	AF158351	-	(O'Donnell et al. 1998, 2000)
	<i>Ipomoea batatas</i>	Peru	NRRL 25346	AF160296	U61564	U61694	AF158349	-	(O'Donnell et al. 1998, 2000)
	Ornamental grass	South Africa	NRRL 26756	AF160307	AF160322	AF158310	AF158360	-	(O'Donnell et al. 2000)
	Ornamental reed	South Africa	NRRL 26757	AF160308	AF160323	AF158311	AF158361	-	(O'Donnell et al. 1998, 2000)
	Palm	Venezuela	NRRL 25204	AF160299	U61559	U61689	AF158352	-	(O'Donnell et al. 2000)
	<i>Bidens pilosa</i>	USA	NRRL 29124	AF160311	AF160326	AF158314	AF158364	-	(O'Donnell et al. 2000)
	<i>Triticum aestivum</i>	Japan	NRRL 25309	AF160284	-	-	-	-	(O'Donnell et al. 2000)
	<i>Oryza sativa</i>	Japan	NRRL 25303	AF160283	-	-	-	-	(O'Donnell et al. 2000)
	Soil	Papua New Guinea	NRRL 26427	AF160286	AF160313	-	-	-	(O'Donnell et al. 2000)

<sup>a</sup>Collection - Type strains included in analysis are indicated in **bold**. Culture collection abbreviations: ATCC = American Type Culture Collection, Virginia, USA; CBS = Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands; CPC = Collection of Pedro W. Crous, held at the Westerdijk Fungal Biodiversity Institute; InaCC = Indonesian Culture Collection, Research Center for Biology, Indonesian Institute of Sciences (LIPI) Cibinong, Indonesia; LGMF = Laboratório de Genética de Microrganismos, Universidade Federal do Paraná, Paraná, Brazil; MRC = Medical Research Council, Tygerberg, Cape Town, South Africa; MUCL = Mycothèque de l'Université Catholique de Louvain, Louvain-la-Neuve, Belgium; NRRL= National Center for Agricultural Utilization Research, Peoria, Illinois, USA.

<sup>b</sup>GenBank – CAL: calmodulin gene; EF-1 $\alpha$ : Translation elongation factor 1-alpha gene; ITS: internal transcribed spacer region of the rDNA; RPB2: RNA polymerase second largest subunit gene; TUB2: Beta-tubulin gene; - : Information or sequence not available or not applicable to the present study

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