

Supplemental Table S1 GenBank accessions for genome sequences

Species	Strain no.	Assembly accession	Status of strain	Reference
<i>Fusarium acaciae-mearnsii</i>	CBS 110255	GCA_017657105		[6]
<i>F. acuminatum</i>	F829	GCA_013363215		[13]
<i>F. albidum</i>	NRRL 22152	GCA_013618265	Type	[14]
<i>F. albosuccineum</i>	NRRL 20459	GCA_012931995		[14]
<i>F. anguioides</i>	NRRL 25385	GCA_012977745	Neotype	[14]
<i>F. armeniacum</i>	NRRL 6227	GCA_013623825		[14]
<i>F. asiaticum</i>	NRRL 26156	GCA_013618305	Type	[14]
<i>F. avenaceum</i>	FaLH27	GCA_000769295		[14]
<i>F. aywerte</i>	NRRL 25410	GCA_013186375		[14]
<i>F. babinda</i>	NRRL 25539	GCA_013184435		[14]
<i>F. beomiforme</i>	NRRL 25174	GCA_002980475		[14]
<i>F. buharicum</i>	NRRL 13371	GCA_014822075		[15]
<i>F. buxicola</i>	NRRL 36148	GCA_014899095		[14]
<i>F. caatingaense</i>	NRRL 66470	GCA_013624355		[16]
<i>F. chlamydosporum</i>	NRRL 13444	GCA_014898915		[14]
<i>F. circinatum</i>	NRRL 25331	GCA_013396185	Type	[14]
<i>F. circinatum</i>	FSP 34	GCA_000497325		[17]
<i>F. clavum</i>	NRRL 66337	GCA_004367155		[18]
<i>F. coicis</i>	NRRL 66233	GCA_013781345	Type	[19]
<i>F. commune</i>	NRRL 28387	GCA_013618355		[14]
<i>F. compactum</i>	NRRL 13829	GCA_013618385		[14]
<i>F. concentricum</i>	NRRL 25181	GCA_014824425	Type	[20]
<i>F. concolor</i>	NRRL 13459	GCA_013184415	Synonym type	[14]
<i>F. continuum</i>	NRRL 66286	GCA_013184455	Type	[14]
<i>F. culmorum</i>	NRRL 25475	GCA_013618375	Type	[14]
<i>F. cyanostomum</i>	NRRL 53998	GCA_014824385		[14]
<i>F. decemcellulare</i>	NRRL 13412	GCA_013266205		[14]
<i>F. dimerum</i>	NRRL 20691	GCA_013623525		[14]
<i>F. domesticum</i>	NRRL 29976	GCA_013618395		[14]
<i>F. equiseti</i>	NRRL 66338	GCA_004367125		[14]
<i>F. falciforme</i>	NRRL 43529	GCA_013363125		[14]
<i>F. flagelliforme</i>	NRRL 66336	GCA_004367175		[18]
<i>F. floridanum</i>	NRRL 62606	GCA_003947005		[21]
<i>F. foetens</i>	NRRL 38302	GCA_013623845		[14]
<i>F. fujikuroi</i>	IMI58289	GCA_900079805		[14]
<i>F. gaditjirii</i>	NRRL 45417	GCA_013266175		[14]
<i>F. gerlachii</i>	CBS 119176	GCA_017656835		[22]

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Species	Strain no.	Assembly accession	Status of strain	Reference
<i>F. guttiforme</i>	NRRL 22945	GCA_013186795		[23]
<i>F. goolgardi</i>	NRRL 66250	GCA_014899075	Type	[19]
<i>F. graminearum</i>	PH-1	GCA_000240135		[14]
<i>F. graminum</i>	NRRL 20692	GCA_013266165		[14]
<i>F. haematococcus</i>	LO1	GCA_010015875		[24]
<i>F. hainanense</i>	NRRL 66475	GCA_013618405		[14]
<i>F. heterosporum</i>	NRRL 20693	GCA_013396295		[14]
<i>F. hostae</i>	NRRL 29888	GCA_013184365	Type	[14]
<i>F. illudens</i>	NRRL 22090	GCA_013623515		[14]
<i>F. irregulare</i>	NRRL 31160	GCA_004367085		[14]
<i>F. langsethiae</i>	FI201059	GCA_001292635		[14]
<i>F. lateritium</i>	NRRL 13362	GCA_014898835		[14]
<i>F. longipes</i>	NRRL 13368	GCA_013618485		[14]
<i>F. longipes</i>	NRRL 13317	GCA_013618495		[14]
<i>F. lyarnte</i>	NRRL 54252	GCA_014898885		[14]
<i>F. mangiferae</i>	NRRL 25226	GCA_013758935		[14]
<i>F. miscanthi</i>	NRRL 26231	GCA_014898875		[14]
<i>F. musae</i>	NRRL 25059	GCA_013623345		[25]
<i>F. nelsonii</i>	NRRL 13338	GCA_014898925		[14]
<i>F. nematophilum</i>	NRRL 54600	GCA_013623595	Type	[14]
<i>F. neocosmosporiellum</i>	NRRL 22166	GCA_006518225	synonym type	[14]
<i>F. newnesense</i>	NRRL 66241	GCA_013184375	Type	[14]
<i>F. nisikadoi</i>	NRRL 25179	GCA_013623555		[14]
<i>F. nodosum</i>	NRRL 36351	GCA_014898975		[26]
<i>F. odoratissimum</i>	NRRL 54006	GCA_000260195		[13]
<i>F. oxysporum</i>	NRRL 32931	GCA_000271745		[14]
<i>F. palustre</i>	NRRL 54050	GCA_014899045		[27]
<i>F. penzigii</i>	NRRL 20711	GCA_013623535		[14]
<i>F. pilosicola</i>	CMWF1183	GCA_020615335	Type	[28]
<i>F. poae</i>	NRRL 26941	GCA_013623615	Type	[14]
<i>F. praegraminearum</i>	NRRL 39664	GCA_002093855	Type	[14]
<i>F. proliferatum</i>	ET1	GCA_900067095		[29]
<i>F. pseudograminearum</i>	NRRL 28062	CGA_000303195		[14]
<i>F. redolens</i>	NRRL 22901	GCA_014899085		[14]
<i>F. rusci</i>	NRRL 22134	GCA_017140155		[14]
<i>F. sacchari</i>	NRRL 66326	GCA_013759005		[14]
<i>F. sambucinum</i>	NRRL 13708	GCA_014899025		[14]

Supplemental Table S1 Cont.

Species	Strain no.	Assembly accession	Status of strain	Reference
<i>F. sarcochroum</i>	NRRL 20472	GCA_013266185		[14]
<i>F. scirpi</i>	NRRL 66328	GCA_004367495		[14]
<i>F. setosum</i>	NRRL 36526	GCA_013623625		[14]
<i>F. sibiricum</i>	NRRL 53430	GCA_014898995		[28]
<i>F. siculi</i>	KOD 1856	GCA_019843635		[6]
<i>F. solani</i>	IISc-1	GCA_013168735		[30]
<i>F. sororula</i>	FCC 5425	GCA_017579625		[27]
<i>Fusarium sp.</i>	NRRL 25184	GCA_013755755		[14]
	NRRL 62590	GCA_003947015		[14]
<i>F. sporotrichiodes</i>	NRRL 3299	GCA_003012315		[14]
<i>F. staphyleae</i>	NRRL 22316	GCA_017140175		[14]
<i>F. stilboides</i>	NRRL 20429	GCA_014822085		[14]
<i>F. subglutians</i>	NRRL 66333	GCA_013396075		[14]
<i>F. sublunatum</i>	NRRL 13384	GCA_013623665		[14]
<i>F. temperatum</i>	CMWF389	GCA_001513835		[14]
<i>F. thapsinum</i>	NRRL 22049	GCA_013186935		[14]
<i>F. torreyae</i>	NRRL 54149	GCA_014824505		[14]
<i>F. torulosum</i>	NRRL 22747	GCA_013623875		[14]
<i>F. transvaalense</i>	NRRL 31008	GCA_013623685		[14]
<i>F. tricinctum</i>	MPI-SDFR-AT-0068	GCA_020744515		[24]
<i>F. tricinctum</i>	NRRL 25481	GCA_012977725	Type	[14]
<i>F. vanettenii</i>	NRRL 45880	GCA_000151355		[14]
<i>F. venenatum</i>	NRRL 66329	GCA_013623635		[14]
<i>F. ventricosum</i>	NRRL 25729	GCA_013623725	Type	[14]
<i>F. verrucosum</i>	NRRL 22566	GCA_013623715		[14]
<i>F. verticillioides</i>	NRRL 20956	GCA_900007375		[14]
<i>F. virguliforme</i>	NRRL 31041	GCA_013363175		[14]
<i>F. xylarioides</i>	NRRL 25486	GCA_013623735	Type	[14]
<i>F. zanthoxyli</i>	NRRL 66285	GCA_013623745	Type	[14]
<i>F. zealandicum</i>	NRRL 22465	GCA_013266195		[14]
<i>Neonectria coccinea</i>	NRRL 20485	GCA_013757005		[14]
<i>Neonectria galligena</i>	NRRL 20487	GCA_013759035		[14]
<i>Neonectria sp.</i>	NRRL 22505	GCA_013756995		[14]
<i>Trichoderma brevicompactum</i>	IBT40841	GCA_003012085		[14]