

Supplementary Table S2: A List of *Fusarium* isolates, and *Fusarium* species, used in this study for constructing phylograms

Species/Isolate	Strain Accession #	GenBank Accession Numbers			Country
		ITS	TEF1- α	RPBII	
Isolate-02	FMB-FO-PD-005	OM319651.1	OP342612	OP234307	Sindh, Pakistan
Isolate-27	FMB-FO-PD-011	OM327774.1	OP342613	OP234308	Punjab Zone II, Pakistan
Isolate-30	FMB-FO-PD-017	OM391976.1	OP342614	OP234309	Punjab Zone I, Pakistan
Isolate-59	FMB-FO-PD-020	OM391977.1	OP342615	OP234310	KPK, Pakistan
<i>Fusarium oxysporum</i>	CBS132475	MH866023.1	KR071771.1	KU604313.1	South Africa
<i>Fusarium proliferatum</i>	CBS138981	KT716199.1	KT716210	KT716196.1	–
<i>Fusarium proliferatum</i>	CBS184.33	MH855401.1	KU604399.1	KU604244.1	Guyana
<i>Fusarium proliferatum</i>	CBS182.32	MH855271.1	KU604395.1	KU604246.1	USA
<i>Fusarium zealandicum</i>	CBS111.93	NR_138298.1	HQ728148.1	HM626684.1	–
<i>Fusarium solani</i>	CBS132898	KF255440	KF255484	KF255523	–
<i>Fusarium falciforme</i>	CBS135512	KM401895.1	KM401894.1	KM401892.1	–
<i>Fusarium falciforme</i>	CBS132191	KF255424.1	KF255467.1	KF255510.1	–
<i>Fusarium solani</i>	CBS118931	JX435204.1	JX435154.1	JX435254.1	–
<i>Fusarium ambrosium</i>	CBS571.94	KM231801.1	KM231929.1	KM232368.1	India

<i>Fusarium neocosmosporiellum</i>	CBS517.71	KM231804.1	KM231932.1	KM232371.1	India
<i>Fusarium neocosmosporiellum</i>	CBS325.54	KM231803.1	KM231931.1	KM232370.1	South Africa
<i>Fusarium neocosmosporiellum</i>	CBS562.70	KM231805.1	KM231933.1	KM232372.1	Guinea
<i>Fusarium striatum</i>	CBS101573	KM231798.1	KM231927.1	KM232365.1	New Zealand
<i>Fusarium illudens</i>	CBS119605	KM231806.1	KM231935.1	KM232374.1	New Zealand
<i>Fusarium phaseoli</i>	CBS265.50	KM232375.1	HE647964.1	KM232375.1	USA
<i>Fusarium petroliphilum</i>	CBS135955	KR071702.1	KU711768.1	KU604337.1	–
<i>Fusarium globosum</i>	CBS431.97	LT746280.1	LT746232.1	LT746345.1	South Africa
<i>Fusarium globosum</i>	CBS429.97	LT746278.1	LT746230.1	LT746343.1	South Africa
<i>Fusarium fujikuroi</i>	CBS119855	KR071669.1	KU711679.1	KU604260.1	–
<i>Fusarium fujikuroi</i>	CBS221.76	KR071666.1	KR071741.1	KU604255.1	Taiwan
<i>Fusarium acutatum</i>	CBS402.97	MH862652.1	KU604454.1	KT154005.1	–
<i>Fusarium incarnatum</i>	CBS132895	KF255437.1	KF255481.1	KF255546.1	–
<i>Fusarium equiseti</i>	CBS30794	MH862468.1	KR071777.1	KU604327.1	Germany

FMB= FMB-Fungal Molecular Biology Laboratory the Culture Collection University of Agriculture Faisalabad,

CBS=CBS-Culture Collection of the Centraalbureau voor Schimmelcultures, Fungal Biodiversity Centre, Utrecht, The Netherlands