Contig ID (length) and ITS coordinates		No.	Charles involved	
First contig found	Other contig(s)	repeats	Species involved	
CM000577.1 (149 bp) 7964421–7964569	CP064749.1 (149 bp) 11634–11782 JAGDUS010000087.1 (149 bp) 2717–2865 JAGDUV010000066.1 (149 bp) 7953–8101 JAGDVB010000022.1 (149 bp) 13649–13797 JAGDVF010000026.1 (149 bp) 2711–2859 JAGDVJ010000033.1 (149 bp) 2819–2967 CP088260.1 (149 bp) 7951857–7952005 CP126887.1 (149 bp) 8019073–8019221	193	Fusarium aethiopicum* Fusarium asiaticum* Fusarium boothii* Fusarium cortaderiae* Fusarium culmorum* Fusarium graminearum\$ Fusarium louisianense* Fusarium meridionale* Fusarium mesoamericanum*	
JAQJAR010000001.1 (174 bp) 11567–11740	JAQJAG01000009.1 (174 bp) 100480–100653 JAQJAG010000010.1 (174 bp) 103353–103526 JAQJAG010000011.1 (174 bp) 115896–116069	52	Penicillium lividum [§] Penicillium odoratum [§]	
CP021225.1 (220 bp) 2111426–2111644	JAHFVN010000021.1 (220 bp) 82553–82771	39	Antrodia cinnamomea [§] Taiwanofungus camphoratus [§]	
JAPZBT010000004.1 (177 bp) 15170–15345	JAQJAW01000002.1 (177 bp) 3769092–3769267 JAQJAW010000009.1(177 bp) 18125–18300 JAQJAW010000010.1 (177 bp) 16072–16247 JAQJAW010000011.1 (177 bp) 13924–14099 JAQJAW010000012.1 (177 bp) 10789–10964	36	Penicillium concentricum [§] Penicillium robsamsonii [§]	
CM000580.1 (150 bp) 828406_828554	DS022269.1 (150 bp) 13990–14138 JAWLTA010000091.1 (150 bp) 2842–2990 JAWLTM010000077.1 (150 bp) 2423–2571 LJGR01000025.1 (150 bp) 5012–5160 JACWFA010000008.1 (150 bp) 3200–3348 JAWLSZ010000010.1 (150 bp) 2842–2990 JAAQRH010000157.1 (150 bp) 3648–3796 + 11 additional contigs	33	Aspergillus subversicolor* Cladosporium antarcticum* Fusarium guttiforme* Fusarium pseudonygamai* Fusarium sororula* Fusarium temperatum* Fusarium verticillioides§ + 11 additional species of Fusarium	

Table S1. Partial list of fungal species sharing identical ITS sequences in FungITS_GB. For brevity purposes, data are shown for only five (rows) out of the 103 repeated sequences found among the 6211 sequences originally included in FungITS_GB. Species are ordered alphabetically. *Species not appearing in the final version of FugITS_GB (each of these species is represented by a single ITS sequence shared with another species). \$Species sharing one ITS sequence with another species but still present in the final database because they are represented by another sequence. †For those sequences found in multiple positions of more than two contigs (genomes), only one representative per contig is shown in the columns on the left.

Contig ID (length) and ITS coordinates		_ No.	Species involved
First contig found	Other contig(s)	repeats	
NW_026249951.1 (195 bp) 927298–927492	NW_026249890.1 (195 bp) 3901–4095	2	Alternaria arbusti Alternaria incomplexa*
NW_014574660.1 (166 bp) 4524–4689	NW_026260342.1 (166 bp) 4216–4381	2	Alternaria postmessia* Metarhizium brunneum
NC_036441.1 (183 bp) 2924696–2924878	NC_054697.1 (183 bp) 2969554-2969736 2977350-2977532 2985146-2985328 2992942-2993124 3000738-3000920 3008534-3008716 3016330-3016512 3024126-3024308	9	Aspergillus oryzae Aspergillus flavus*
NW_023336289.1 (187 bp) 1238883–1239069 1246938–1247124 1254989–1255175	NC_054852.1 (187 bp) 735393-735579 743445-743631 751497-751683 759549-759735	7	Aspergillus luchuensis* Aspergillus tubingensis
NW_025544790.1 (208 bp) 13158-13365 21648_21855 30138_30345 38621_38828 71250_71457	NW_003101676.1 (208 bp) 2130074–2130281 2138547–2138754 2147026–2147233 2155508–2155715	9	Blastomyces dermatitidis [§] Blastomyces gilchristii [§]
NW_023501002.1 (148 bp) 887210–887357	NW_024065882.1 (148 bp) 193587-193734 NW_024066056.1 (148 bp) 642142-642289 NW_024066232.1 (148 bp) 18020-18167 NW_023501002.1 (148 bp) 887210-887357	18†	Botrytis byssoidea Botrytis deweyae* Botrytis fragariae Botrytis sinoallii*
NC_064679.1 (183 bp) 5451356-5451538	NW_026518045.1 (183 bp) 6077-6259 NW_026848238.1 (183 bp) 7945-8127 NW_026849595.1 (183 bp) 32531-32713	9†	Colletotrichum costaricense Colletotrichum fioriniae* Colletotrichum lupine Colletotrichum tamarilloi*
NC_ 031677.1 (149 bp) 828406–828554	NW_017387867.1 (149 bp) 13990-14138 NW_025408615.1 (149 bp) 12764-12912 NC_031677.1 (149 bp) 828406-828554 NW_017387867.1 (149 bp) 13990-14138	14†	Fusarium musae* Fusarium verticilloides
NW_026622757.1 (176 bp) 15170–15345	NW_026643220.1 (176 bp) 3769092–3769267 NW_026643227.1 (176 bp) 18125–18300 NW_026643228.1 (176 bp) 16072–16247 NW_026643229.1 (176 bp) 13924–14099 NW_026643230.1 (176 bp) 52724–52899	36†	Penicillium concentricum [§] Penicillium robsamsonii [§]

Table S2. List of fungal species sharing identical ITS sequences in FungITS_RS (continues in next page).

NW_026643117.1 (174 bp) 10013–10186	NW_026643072.1 (174 bp) 1650–1823 NW_026643072.1 9501–9674	9	Penicillium longicatenatum Penicillium pulvis*
NC_085887.1 (158 bp) 16980–17137	NC_085922.1 (158 bp) 2188–2345	2	Podospora pseudoanserina [§] Podospora pseudocomata [§]

Table S2. List of fungal species sharing identical ITS sequences in FungITS_RS (continued). Species are ordered alphabetically. *Species not appearing in the final version of FungITS_RS (each of these species is represented by a single ITS sequence shared with another species). \$Species sharing one ITS sequence with another species, but still present in the final database because they are represented by another sequence. †For those sequences found in multiple positions of more than two contigs (genomes), only one representative per contig is shown in the columns on the left.

Phylum	Database			
	FungITS_GB+	FungITS_RS_TL	"Clean UNITE"	
Ascomycota	12560	11827	19241	
Basidiobolomycota			9	
Basidiomycota	5757	5336	14717	
Blastocladiomycota	8	3	11	
Calcarisporiellomycota			1	
Chytridiomycota	70	67	142	
Cryptomycota*	4	3		
Entomophthoromycota			9	
Entorrhizomycota			7	
Glomeromycota			471	
Kickxellomycota			23	
Microsporidia*	9	5		
Monoblepharomycota			4	
Mortierellomycota			99	
Mucoromycota	421	388	410	
Neocallimastigomycota			43	
Olpidiomycota	1	1	6	
Rozellomycota			3	
Sanchytriomycota*	1			
Zoopagomycota	33	25	28	
Incertae sedis	2	2		

Table S3. Number of sequences per phylum included in the final databases. Phyla are ordered alphabetically. Those in bold marked with an asterisk are only represented in FungITS.

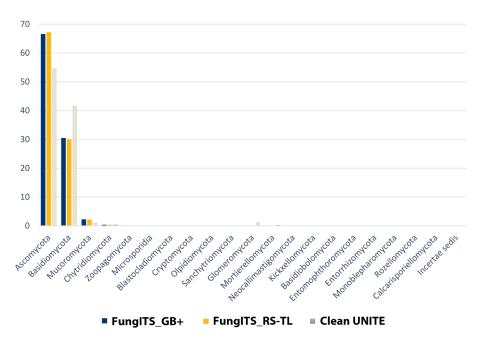


Figure S1. Distribution of the sequences of each database among different phyla. Note that, in all three databases, most sequences correspond to species belonging to the phylum Ascomycota, closely followed by Basidiomycota, and then Mucoromycota. The bars corresponding to sequences of species belonging to the three phyla unique to FungITS are not visible due to the scale of this plot.