

Additional file 10. Sordariomycetes genome assemblies used for the HGT validation procedure.

No.	Order	Species	GenBank assembly accession
1	Glomerellales	<i>Verticillium alfalfae</i>	GCA_000150825.1
2	Glomerellales	<i>Verticillium dahliae</i>	GCA_000952015.1
3	Glomerellales	<i>Verticillium longisporum</i>	GCA_001268165.1
4	Glomerellales	<i>Verticillium tricorpus</i>	GCA_000732205.1
5	Hypocreales	<i>Aciculosporium take</i>	GCA_000222935.2
6	Hypocreales	<i>Acremonium chrysogenum</i>	GCA_000769265.1
7	Hypocreales	<i>Atkinsonella hypoxylon</i>	GCA_000729835.1
8	Hypocreales	<i>Atkinsonella texensis</i>	GCA_001008105.1
9	Hypocreales	<i>Balansia obtecta</i>	GCA_000709145.1
10	Hypocreales	<i>Beauveria bassiana</i>	GCA_000770705.1
11	Hypocreales	<i>Beauveria rudraprayagi</i>	GCA_000733645.1
12	Hypocreales	<i>Claviceps fusiformis</i>	GCA_000223055.1
13	Hypocreales	<i>Claviceps paspali</i>	GCA_000223175.2
14	Hypocreales	<i>Claviceps purpurea</i>	GCA_000347355.1
15	Hypocreales	<i>Clonostachys rosea</i>	GCA_000963775.2
16	Hypocreales	<i>Cordyceps militaris</i>	GCA_000225605.1
17	Hypocreales	<i>Dactylonectria macrodidyma</i>	GCA_000935225.1
18	Hypocreales	<i>Epichloe amarillans</i>	GCA_000877375.1
19	Hypocreales	<i>Epichloe aotearoae</i>	GCA_000729855.1
20	Hypocreales	<i>Epichloe baconii</i>	GCA_000729845.1
21	Hypocreales	<i>Epichloe brachyelytri</i>	GCA_000222915.1
22	Hypocreales	<i>Epichloe bromicola</i>	GCA_001008065.1
23	Hypocreales	<i>Epichloe elymi</i>	GCA_000315335.1
24	Hypocreales	<i>Epichloe festucae</i>	GCA_000226195.1
25	Hypocreales	<i>Epichloe gansuensis</i>	GCA_000222895.2
26	Hypocreales	<i>Epichloe gansuensis</i>	GCA_000309355.1
27	Hypocreales	<i>Epichloe glyceriae</i>	GCA_000225285.2
28	Hypocreales	<i>Epichloe sp_AL9924</i>	GCA_000729825.1
29	Hypocreales	<i>Epichloe sylvatica</i>	GCA_001008265.1
30	Hypocreales	<i>Epichloe typhina</i>	GCA_000222955.2
31	Hypocreales	<i>Epichloe uncinata</i>	GCA_001043855.1
32	Hypocreales	<i>Escovopsis weberi</i>	GCA_001278495.1
33	Hypocreales	<i>Fusarium avenaceum</i>	GCA_000769215.1
34	Hypocreales	<i>Fusarium circinatum</i>	GCA_000876485.1
35	Hypocreales	<i>Fusarium fujikuroi</i>	GCA_001023045.1
36	Hypocreales	<i>Fusarium graminearum</i>	GCA_000966635.1
37	Hypocreales	<i>Fusarium langsethiae</i>	GCA_001292635.1
38	Hypocreales	<i>Fusarium nygamai</i>	GCA_001262555.1
39	Hypocreales	<i>Fusarium oxysporum</i>	GCA_000733055.2
40	Hypocreales	<i>Fusarium pseudograminearum</i>	GCA_000974265.1
41	Hypocreales	<i>Fusarium sp_JS626</i>	GCA_000966865.1
42	Hypocreales	<i>Fusarium temperatum</i>	GCA_001513835.1
43	Hypocreales	<i>Fusarium verticillioides</i>	GCA_000149555.1
44	Hypocreales	<i>Fusarium virguliforme</i>	GCA_000585705.1
45	Hypocreales	<i>Hirsutella minnesotensis</i>	GCA_000956045.1
46	Hypocreales	<i>Hirsutella thompsonii</i>	GCA_000472125.2
47	Hypocreales	<i>Hypocrella siamensis</i>	GCA_000731825.1
48	Hypocreales	<i>Isaria farinosa</i>	GCA_000733625.1
49	Hypocreales	<i>Metarhizium acridum</i>	GCA_000187405.1
50	Hypocreales	<i>Metarhizium album</i>	GCA_000804445.1
51	Hypocreales	<i>Metarhizium anisopliae</i>	GCA_000814975.1
52	Hypocreales	<i>Metarhizium brunneum</i>	GCA_000814965.1
53	Hypocreales	<i>Metarhizium guizhouense</i>	GCA_000814955.1
54	Hypocreales	<i>Metarhizium majus</i>	GCA_000814945.1
55	Hypocreales	<i>Metarhizium robertsii</i>	GCA_000187425.2
56	Hypocreales	<i>Nectria haematococca</i>	GCA_000151355.1
57	Hypocreales	<i>Neonectria ditissima</i>	GCA_001306435.1
58	Hypocreales	<i>Ophiocordyceps sinensis</i>	GCA_000448365.1
59	Hypocreales	<i>Ophiocordyceps unilateralis</i>	GCA_001272575.1

60	Hypocreales	<i>Paecilomyces hepiali</i>	GCA_001455915.1
61	Hypocreales	<i>Periglandula ipomoeae</i>	GCA_000222875.2
62	Hypocreales	<i>Pochonia chlamydosporia</i>	GCA_000411695.1
63	Hypocreales	<i>Purpureocillium lilacinum</i>	GCA_001468795.1
64	Hypocreales	<i>Stachybotrys chartarum</i>	GCA_001021365.1
65	Hypocreales	<i>Stachybotrys chlorohalonata</i>	GCA_000732775.1
66	Hypocreales	<i>Tolypocladium inflatum</i>	GCA_000421905.1
67	Hypocreales	<i>Tolypocladium ophioglossoides</i>	GCA_001189435.1
68	Hypocreales	<i>Tolypocladium sp_Salcha_MEA-2</i>	GCA_000750145.2
69	Hypocreales	<i>Tolypocladium sp_Sup5_PDA-1</i>	GCA_000750105.3
70	Hypocreales	<i>Torrubiella hemipterigena</i>	GCA_000825705.1
71	Hypocreales	<i>Trichoderma atroviride</i>	GCA_000963795.1
72	Hypocreales	<i>Trichoderma gamsii</i>	GCA_001481775.1
73	Hypocreales	<i>Trichoderma hamatum</i>	GCA_000331835.2
74	Hypocreales	<i>Trichoderma harzianum</i>	GCA_000733085.2
75	Hypocreales	<i>Trichoderma longibrachiatum</i>	GCA_000332775.1
76	Hypocreales	<i>Trichoderma parareesei</i>	GCA_001050175.1
77	Hypocreales	<i>Trichoderma reesei</i>	GCA_000513815.1
78	Hypocreales	<i>Trichoderma virens</i>	GCA_000170995.2
79	Hypocreales	<i>Ustilaginoidea virens</i>	GCA_000965225.1
80	Microascales	<i>Ceratocystis albifundus</i>	GCA_000813685.1
81	Microascales	<i>Ceratocystis fimbriata</i>	GCA_000389695.2
82	Microascales	<i>Ceratocystis manginecans</i>	GCA_000712455.1
83	Microascales	<i>Ceratocystis platani</i>	GCA_000978885.1
84	Microascales	<i>Huntiaella moniliformis</i>	GCA_000712465.1
85	Microascales	<i>Huntiaella omanensis</i>	GCA_000833645.1
86	Microascales	<i>Huntiaella savannae</i>	GCA_001483325.1
87	Microascales	<i>Scedosporium apiospermum</i>	GCA_000732125.1
88	Microascales	<i>Scedosporium aurantiacum</i>	GCA_000812075.1
89	Microascales	<i>Thielaviopsis musarum</i>	GCA_001513885.1
90	Microascales	<i>Thielaviopsis punctulata</i>	GCA_000968615.1
91	Diaporthales	<i>Chrysosporthe austroafricana</i>	GCA_001051155.1
92	Diaporthales	<i>Chrysosporthe cubensis</i>	GCA_001282315.1
93	Diaporthales	<i>Diaporthe ampelina</i>	GCA_001006365.1
94	Diaporthales	<i>Diaporthe aspalathi</i>	GCA_001447215.1
95	Diaporthales	<i>Diaporthe longicolla</i>	GCA_000498855.2
96	Diaporthales	<i>Ophiognomonium clavignenti</i>	GCA_000220195.1
97	Diaporthales	<i>Valsa mali</i>	GCA_000818155.1
98	Ophiostomatales	<i>Grosmania clavigera</i>	GCA_000143125.1
99	Ophiostomatales	<i>Leptographium lundbergii</i>	GCA_001455505.1
100	Ophiostomatales	<i>Leptographium procerum</i>	GCA_000806385.1
101	Ophiostomatales	<i>Ophiostoma novo-ulmi</i>	GCA_000317715.1
102	Ophiostomatales	<i>Ophiostoma piceae</i>	GCA_000410735.1
103	Ophiostomatales	<i>Sporothrix brasiliensis</i>	GCA_000820605.1
104	Ophiostomatales	<i>Sporothrix pallida</i>	GCA_000710705.1
105	Ophiostomatales	<i>Sporothrix schenckii</i>	GCA_000961545.1
106	Sordariales	<i>Chaetomium globosum</i>	GCA_000143365.1
107	Sordariales	<i>Chaetomium thermophilum</i>	GCA_000221225.1
108	Sordariales	<i>Madurella mycetomatis</i>	GCA_001275765.1
109	Sordariales	<i>Myceliophthora thermophila</i>	GCA_000226095.1
110	Sordariales	<i>Neurospora africana</i>	GCA_000604205.2
111	Sordariales	<i>Neurospora crassa</i>	GCA_000786625.1
112	Sordariales	<i>Neurospora pannonica</i>	GCA_000604225.2
113	Sordariales	<i>Neurospora sublineolata</i>	GCA_000604185.2
114	Sordariales	<i>Neurospora terricola</i>	GCA_000604245.2
115	Sordariales	<i>Neurospora tetrasperma</i>	GCA_000213195.1
116	Sordariales	<i>Sordaria macrospora</i>	GCA_000182805.2
117	Togniniales	<i>Phaeoacremonium minimum</i>	GCA_000392275.1
118	Xylariales	<i>Daldinia eschscholtzii</i>	GCA_000261445.1
119	Xylariales	<i>Eutypa lata</i>	GCA_000349385.1
120	Xylariales	<i>Hypoxylon sp_E7406B</i>	GCA_000931505.1
121	Xylariales	<i>Pestalotiopsis fici</i>	GCA_000516985.1
122	Xylariales	<i>Rosellinia necatrix</i>	GCA_001445595.1
123	Xylariales	<i>Xylaria sp_JS573</i>	GCA_000966885.1