

Table S5. Sequence accession numbers.**Genome assemblies**

Strain	Assembly	reference (as DOI)
<i>Cryptococcus floricola</i> DSM27421	RRZH00000000	this study
<i>Cryptococcus wingfieldii</i> CBS7118	GCA_001720155.1 CP034261 to CP034275	NCBI this study
<i>Cryptococcus amyloletus</i> CBS6039	GCA_001720205.1	10.1371/journal.pbio.2002527
<i>Cryptococcus amyloletus</i> CBS6273	GCA_001720235.1	NCBI
<i>Cryptococcus deuterogattii</i> R265	GCA_000149475.3	10.1128/mBio.00342-10
<i>Tremella mesenterica</i> ATCC28783	GCA_004117975.1	NCBI
<i>Kwoniella heveanensis</i> BCC8398	GCA_000507405.3	NCBI

Read data

Strain	Illumina reads	Sequel reads	MinION reads
<i>Cryptococcus floricola</i> DSM27421	SRR8085508	SRR8081506	SRR8081507
<i>Cryptococcus wingfieldii</i> CBS7118	SRX333108 & SRX333109	SRR8081109	-
SSA790	SRR8085509	-	-
SSB821	SRR8085506	-	-
SSC103	SRR8085507	-	-
SSC120	SRR8085504	-	-
SSC125	SRR8085505	-	-
SSC129	SRR8085502	-	-
SSC130	SRR8085503	-	-
ARP32	SRR8085510	-	-
ARP34	SRR8085511	-	-
ARP35	SRR8085492	-	-
ARP36	SRR8085493	-	-
ARP38	SRR8085490	-	-
ARP44	SRR8085491	-	-
ARP45	SRR8085516	-	-
ARP56	SRR8085517	-	-
ARP59	SRR8085514	-	-
ARP60	SRR8085515	-	-
ARP61	SRR8085512	-	-
ARP62	SRR8085513	-	-
ARP63	SRR8085501	-	-
ARP64	SRR8085500	-	-
ARP65	SRR8085499	-	-
ARP66	SRR8085498	-	-
ARP67	SRR8085497	-	-
ARP68	SRR8085496	-	-
ARP70	SRR8085495	-	-
ARP71	SRR8085494	-	-

Table S5. Continued.**ITS1-5.8S-ITS2**

Strain	Accession No.	reference (as DOI)
<i>Cryptococcus floricola</i> DSM27421	MK248693	this study
<i>Cryptococcus wingfieldii</i> CBS7118	FJ534886.1	10.1128/EC.00373-08
<i>Cryptococcus amyloilentus</i> CBS6039	FJ534872.1	10.1128/EC.00373-08
<i>Cryptococcus amyloilentus</i> CBS6273	JN019831.1	NCBI
<i>Cryptococcus neoformans</i> H99	FJ534879.1	10.1128/EC.00373-08
<i>Cryptococcus deneoformans</i> JEC21	FJ534880.1	10.1128/EC.00373-08
<i>Cryptococcus deuterogattii</i> R265	FJ534877.1	10.1128/EC.00373-08
<i>Cryptococcus gattii</i> WM276	FJ534878.1	10.1128/EC.00373-08
<i>Cryptococcus depauperatus</i> CBS7841	FJ534881.1	10.1128/EC.00373-08
<i>Cryptococcus depauperatus</i> CBS7855	GU289923.1	10.1371/journal.pone.0009620
<i>Kwoniella heveanensis</i> CBS569	FJ534875.1	10.1128/EC.00373-08
<i>Kwoniella mangrovensis</i> CBS8507	FJ534882.1	10.1128/EC.00373-08
<i>Kwoniella dendrophila</i> CBS6074	FJ534871.1	10.1128/EC.00373-08
<i>Kwoniella bestiolae</i> CBS10118	FJ534873.1	10.1128/EC.00373-08
<i>Kwoniella dejecticola</i> CBS10117	FJ534874.1	10.1128/EC.00373-08
<i>Vanrija humicola</i> CBS571	FJ534876.1	10.1128/EC.00373-08
<i>Tremella globispora</i> CBS6972	FJ534883.1	10.1128/EC.00373-08
<i>Tremella mesenterica</i> ATCC24925	FJ534885.1	10.1128/EC.00373-08
<i>Tremella mesenterica</i> CBS6973	FJ534884.1	10.1128/EC.00373-08

RPB1

Strain	Accession No.	reference (as DOI)
<i>Cryptococcus floricola</i> DSM27421	MK262778	this study
<i>Cryptococcus wingfieldii</i> CBS7118	FJ534932.1	10.1128/EC.00373-08
<i>Cryptococcus amyloilentus</i> CBS6039	FJ534918.1	10.1128/EC.00373-08
<i>Cryptococcus amyloilentus</i> CBS6273	GCA_001720235.1, I350_04076	locus identified in this study
<i>Cryptococcus neoformans</i> H99	FJ534925.1	10.1128/EC.00373-08
<i>Cryptococcus deneoformans</i> EC21	FJ534926.1	10.1128/EC.00373-08
<i>Cryptococcus deuterogattii</i> R265	FJ534923.1	10.1128/EC.00373-08
<i>Cryptococcus gattii</i> WM276	FJ534924.1	10.1128/EC.00373-08
<i>Cryptococcus depauperatus</i> CBS7841	FJ534927.1	10.1128/EC.00373-08
<i>Cryptococcus depauperatus</i> CBS7855	GU131346.1	10.1371/journal.pone.0009620
<i>Kwoniella heveanensis</i> CBS569	FJ534921.1	10.1128/EC.00373-08
<i>Kwoniella mangrovensis</i> CBS8507	FJ534928.1	10.1128/EC.00373-08
<i>Kwoniella dendrophila</i> CBS6074	FJ534917.1	10.1128/EC.00373-08
<i>Kwoniella bestiolae</i> CBS10118	FJ534919.1	10.1128/EC.00373-08
<i>Kwoniella dejecticola</i> CBS10117	FJ534920.1	10.1128/EC.00373-08
<i>Vanrija humicola</i> CBS571	FJ534922.1	10.1128/EC.00373-08
<i>Tremella globispora</i> CBS6972	FJ534929.1	10.1128/EC.00373-08
<i>Tremella mesenterica</i> ATCC24925	FJ534931.1	10.1128/EC.00373-08
<i>Tremella mesenterica</i> CBS6973	FJ534930.1	10.1128/EC.00373-08

Table S5. Continued.**TEF1**

Strain	Accession No.	reference (as DOI)
<i>Cryptococcus floricola</i> DSM27421	MK262779	this study
<i>Cryptococcus wingfieldii</i> CBS7118	FJ534870.1	10.1128/EC.00373-08
<i>Cryptococcus amylo lentus</i> CBS6039	FJ534857.1	10.1128/EC.00373-08
<i>Cryptococcus amylo lentus</i> CBS6273	GCA_001720235.1, locus I350_04892	locus identified in this study
<i>Cryptococcus neoformans</i> H99	FJ534863.1	10.1128/EC.00373-08
<i>Cryptococcus deneoformans</i> EC21	FJ534864.1	10.1128/EC.00373-08
<i>Cryptococcus deuterogattii</i> R265	GCA_000149475.3, locus CNBG_4834	locus identified in this study
<i>Cryptococcus gattii</i> WM276	FJ534862.1	10.1128/EC.00373-08
<i>Cryptococcus depauperatus</i> CBS7841	FJ534865.1	10.1128/EC.00373-08
<i>Cryptococcus depauperatus</i> CBS7855	GU131345.1	10.1371/journal.pone.0009620
<i>Kwoniella heveanensis</i> CBS569	FJ534860.1	10.1128/EC.00373-08
<i>Kwoniella mangrovensis</i> CBS8507	FJ534866.1	10.1128/EC.00373-08
<i>Kwoniella dendrophila</i> CBS6074	FJ534856.1	10.1128/EC.00373-08
<i>Kwoniella bestiolae</i> CBS10118	FJ534858.1	10.1128/EC.00373-08
<i>Kwoniella dejecticola</i> CBS10117	FJ534859.1	10.1128/EC.00373-08
<i>Vanrija humicola</i> CBS571	FJ534861.1	10.1128/EC.00373-08
<i>Tremella globispora</i> CBS6972	FJ534867.1	10.1128/EC.00373-08
<i>Tremella mesenterica</i> ATCC24925	FJ534869.1	10.1128/EC.00373-08
<i>Tremella mesenterica</i> CBS6973	FJ534868.1	10.1128/EC.00373-08

STE3

Strain	Accession No.	reference (as DOI)
<i>Cryptococcus floricola</i> DSM27421	RRZH00000000, locus 06903	this study
<i>Cryptococcus wingfieldii</i> CBS7118	CP034268, locus 05758	this study
<i>Cryptococcus amylo lentus</i> CBS6039	GCA_001720205.1, locus L202_06521	locus identified in this study
<i>Cryptococcus amylo lentus</i> CBS6273	GCA_001720235.1, locus I350_05946	locus identified in this study
<i>Cryptococcus neoformans</i> H99	AF542529.2	10.1371/journal.pbio.0020384
<i>Cryptococcus deneoformans</i> JEC21	AF542531.2	10.1371/journal.pbio.0020384
<i>Cryptococcus gattii</i> WM276	AY710430.1	10.1371/journal.pbio.0020384
<i>Kwoniella heveanensis</i> CBS569	GU205379.1	10.1371/journal.pgen.1000961
<i>Tremella mesenterica</i> ATCC24925	HM440938.1	NCBI
<i>Tremella mesenterica</i> ATCC28783	GCA_004117975.1, locus M231_00566	locus identified in this study
<i>Kwoniella heveanensis</i> BCC8398	GCA_000507405.3, locus I316_01671	locus identified in this study
<i>Cryptococcus gattii</i> E566	AY710429.1	10.1371/journal.pbio.0020384
<i>Cryptococcus deneoformans</i> JEC20	AF542530.2	10.1371/journal.pbio.0020384
<i>Cryptococcus neoformans</i> 125.91	AF542528.2	10.1371/journal.pbio.0020384