

Supplementary Information

Table S1. List of yeast strains and genomes used in this study.

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis.

Table S3. The phenotypic characteristics of newly reclassified *Candida* and related taxa in *Saccharomycotina*.

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study.

Figure S1. The expanded phylogenomic tree inferred using 526 single-copy orthologue proteins showing the phylogenetic relationship between *Candida* and related taxa in *Dipodascomycetes*. Bootstrap percentages of maximum likelihood analysis from 1 000 bootstrap replicates are shown on the major branches. *Trigonopsis variabilis* and *Tortispora ganteri* were used as outgroups. Bar = 0.2 substitutions per nucleotide position.

Figure S2. The expanded phylogenomic tree inferred using 545 single-copy orthologue proteins showing the phylogenetic relationship between *Candida* species and related taxa in *Pichiales* (*Pichiomyces*). Bootstrap percentages of maximum likelihood analysis from 1 000 bootstrap replicates are shown on the major branches. *Nakazawaea holstii* and *Pachysolen tannophilus* were used as outgroups. Bar = 0.2 substitutions per nucleotide position.

Figure S3. The expanded phylogenomic tree inferred using 652 single-copy orthologue proteins showing the phylogenetic relationship between *Candida* species and *Barnettozyma*, *Millerago*, *Phaffomyces* and *Wickerhamomyces* in *Phaffomycetales* (*Saccharomycetes*). Bootstrap percentages of maximum likelihood analysis from 1 000 bootstrap replicates are shown on the major branches. *Ascoidea rubescens* and *Saccharomycopsis capsularis* were used as outgroups. Bar = 0.2 substitutions per nucleotide position.

Figure S4. The expanded phylogenomic tree inferred using 583 single-copy orthologue proteins showing the phylogenetic relationship between *Candida* species and related taxa in *Debaryomycetaceae* (*Serinales*, *Pichiomyces*). Bootstrap percentages of

maximum likelihood analysis from 1 000 bootstrap replicates are shown on the major branches. *Nakazawaea holstii* and *Pachysolen tannophilus* were used as outgroups. Bar = 0.05 substitutions per nucleotide position.

Figure S5. Phylogenetic tree inferred using LSU showing the phylogenetic relationship between *Candida incommunis*, *Candida bentonensis* and related undescribed species. Bootstrap percentages of ML analysis over 50 % from 1 000 bootstrap replicates are shown on the major branches. Bar = 0.2 substitutions per nucleotide position.

Figure S6. Phylogenetic tree inferred using LSU showing the phylogenetic relationship between *Candida* species and the genera *Diddensiella*, *Spencermartinsiella*, *Sugiyamaella* and *Zygoascus*. Bootstrap percentages of ML analysis over 50 % from 1 000 bootstrap replicates are shown on the major branches. Bar = 0.1 substitutions per nucleotide position.

Figure S7. Phylogenetic tree inferred using LSU showing the phylogenetic relationship between *Candida* species and the genus *Starmerella*. Bootstrap percentages of ML analysis over 50 % from 1000 bootstrap replicates are shown on the major branches. Bar = 0.05 substitutions per nucleotide position.

Figure S8. Phylogenetic tree inferred using LSU showing the phylogenetic relationship between *Candida hispaniensis* and related undescribed strains. Bootstrap percentages of ML analysis over 50 % from 1000 bootstrap replicates are shown on the major branches. Bar = 0.1 substitutions per nucleotide position.

Figure S9. Phylogenetic tree inferred using LSU showing the phylogenetic relationship between *Candida* species and related taxa in *Pichiales* (*Pichiomyces*). Bootstrap percentages of ML analysis over 50 % from 1 000 bootstrap replicates are shown on the major branches. Bar = 0.2 substitutions per nucleotide position.

Figure S10. Phylogenetic tree inferred using ITS showing the phylogenetic relationship of *Candida boidinii* and related unpublished strains. Bootstrap percentages of ML analysis over 50 % from 1000 bootstrap replicates are shown on the major branches. Bar = 0.05 substitutions per nucleotide position.

Figure S11. Phylogenetic tree inferred using LSU showing the phylogenetic relationship between *Candida* species and related taxa in *Debaryomycetaceae*

(*Serinales*, *Pichiomyces*). Bootstrap percentages of ML analysis over 50 % from 1000 bootstrap replicates are shown on the major branches. Bar = 0.5 substitutions per nucleotide position.

Figure S12. Phylogenetic tree inferred using ITS showing the phylogenetic relationship of *Candida multigemmis* and related unpublished strains. Bootstrap percentages of ML analysis over 50 % from 1000 bootstrap replicates are shown on the major branches. Bar = 0.05 substitutions per nucleotide position.

Figure S13. Phylogenetic tree inferred using LSU showing the phylogenetic relationship between *Candida* species and related taxa in *Phaffomycetaceae* (*Phaffomycetales*, *Saccharomycetes*). Bootstrap percentages of ML analysis over 50 % from 1000 bootstrap replicates are shown on the major branches. Bar = 0.1 substitutions per nucleotide position.

Table S1. List of yeast strains and genomes used in this study

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Dipodascomycetes</i>							
<i>Blastobotrys adeninivorans</i>	TMCC 70007	GCA 016162255.1	99.00%	98.70%	0.30%	0.50%	0.50%
<i>Blastobotrys americana</i>	NRRL Y-6844	GCA 003705795.2	99.20%	99.10%	0.10%	0.30%	0.50%
<i>Blastobotrys arbuscula</i>	NRRL Y-17585	GCA 030564365.1	97.20%	96.70%	0.50%	0.40%	2.40%
<i>Blastobotrys attinorum</i>	NRRL Y-27639	GCA 030564265.1	98.30%	98.00%	0.30%	0.50%	1.20%
<i>Blastobotrys buckinghamii</i>	NRRL Y-63727	GCA 030579975.1	96.70%	96.40%	0.30%	0.40%	2.90%
<i>Blastobotrys capitulata</i>	NRRL Y-17573	GCA 030564325.1	96.30%	96.20%	0.10%	0.70%	3.00%
<i>Blastobotrys chiropterorum</i>	NRRL Y-17071	GCA 030570055.1	98.80%	98.70%	0.10%	0.40%	0.80%
<i>Blastobotrys elegans</i>	NRRL Y-17572	GCA 030564235.1	97.60%	97.50%	0.10%	0.40%	2.00%
<i>Blastobotrys illinoisensis</i>	NRRL YB-1343	GCA 030558835.1	98.60%	97.00%	1.60%	0.40%	1.00%
<i>Blastobotrys indianensis</i>	NRRL YB-1950	GCA 030558855.1	97.30%	97.00%	0.30%	0.40%	2.30%
<i>Blastobotrys malaysiensis</i>	NRRL Y-6417	GCA 030558815.1	98.10%	97.40%	0.70%	0.50%	1.40%
<i>Blastobotrys mokoena</i>	NRRL Y-27120	GCA 003705765.2	98.70%	98.30%	0.40%	0.40%	0.90%
<i>Blastobotrys muscicola</i>	NRRL Y-7993	GCA 003705745.2	98.60%	98.20%	0.40%	0.40%	1.00%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Blastobotrys niveus</i>	NRRL Y-17581	GCA 003707525.2	66.30%	66.00%	0.30%	17.70%	16.00%
<i>Blastobotrys parvus</i>	NRRL Y-1004	GCA 030564285.1	97.90%	97.60%	0.30%	0.50%	1.60%
<i>Blastobotrys peoriensis</i>	NRRL YB-2290	GCA 003705735.2	98.40%	98.30%	0.10%	0.90%	0.70%
<i>Blastobotrys persicus</i>	CBS 14259	GCA 030585065.1	99.00%	98.30%	0.70%	0.70%	0.30%
<i>Blastobotrys proliferans</i>	NRRL Y-17577	GCA 003707485.2	98.10%	97.60%	0.50%	0.00%	1.90%
<i>Blastobotrys raffinosifermentans</i>	NRRL Y-27150	GCA 003705705.1	99.00%	95.00%	4.00%	0.50%	0.50%
<i>Blastobotrys robertii</i>	NRRL Y-27775	GCA 030564385.1	97.60%	97.10%	0.50%	0.70%	1.70%
<i>Blastobotrys serpentis</i>	NRRL Y-48249	GCA 003705695.1	99.50%	99.20%	0.30%	0.10%	0.40%
<i>Blastobotrys terrestris</i>	NRRL Y-17704	GCA 030674225.1	98.30%	84.80%	13.50%	0.80%	0.90%
<i>Candida bentonensis</i>	NRRL YB-2364	GCA 030561725.1	95.70%	95.60%	0.10%	0.50%	3.80%
<i>Candida hispaniensis</i>	NRRL Y-5580	GCA 030574015.1	95.20%	95.10%	0.10%	0.70%	4.10%
<i>Candida incommunis</i>	NRRL Y-17085	GCA 003706695.3	95.40%	95.10%	0.30%	0.70%	3.90%
<i>Candida kazuoi</i>	JCM 12558	GCA 030555755.1	77.70%	77.60%	0.10%	7.10%	15.20%
<i>Candida lundiana</i>	CBS 12271	GCA 030563415.1	98.10%	97.60%	0.50%	0.10%	1.80%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida patagonica</i>	CBS 10443	GCA 030580475.1	97.50%	96.70%	0.80%	0.50%	2.00%
<i>Candida suthepensis</i>	CBS 12270	GCA 030568895.1	97.60%	97.10%	0.50%	0.70%	1.70%
<i>Candida tunisiensis</i>	CBS 12513	GCA 030407195.1	96.50%	96.20%	0.30%	2.40%	1.10%
<i>Crinitomyces ghanaensis</i>	NRRL YB-1486	GCA 030581755.1	97.10%	97.10%	0.00%	0.70%	2.20%
<i>Deakozyma indianensis</i>	NRRL YB-1937	GCA 003706415.3	96.40%	96.30%	0.10%	0.80%	2.80%
<i>Diddensiella caesifluorescens</i>	NRRL Y-48781	GCA 030558955.1	99.10%	98.70%	0.40%	0.30%	0.60%
<i>Diddensiella santjacobensis</i>	NRRL Y-17667	GCA 030574215.1	98.30%	97.90%	0.40%	0.40%	1.30%
<i>Diddensiella transvaalensis</i>	NRRL Y-27140	GCA 030555955.1	98.10%	97.80%	0.30%	0.90%	1.00%
<i>Dipodascus aggregatus</i>	NRRL Y-17564	GCA 030564925.1	98.90%	84.70%	14.20%	0.00%	1.10%
<i>Dipodascus albidus</i>	NRRL Y-12859	GCA 003707475.1	97.50%	92.20%	5.30%	0.40%	2.10%
<i>Dipodascus armillariae</i>	NRRL Y-17580	GCA 030674515.1	81.30%	72.30%	9.00%	10.40%	8.30%
<i>Dipodascus australiensis</i>	NRRL Y-17565	GCA 030563945.1	98.30%	94.20%	4.10%	0.10%	1.60%
<i>Dipodascus carabidarum</i>	NRRL Y-27727	GCA 030556585.1	99.00%	83.40%	15.60%	0.00%	1.00%
<i>Dipodascus cucujoidarum</i>	NRRL Y-27731	GCA 030566025.1	98.20%	87.50%	10.70%	0.90%	0.90%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Dipodascus fermentans</i>	NRRL Y-1492	GCA 030564905.1	98.90%	82.80%	16.10%	0.40%	0.70%
<i>Dipodascus geniculatus</i>	NRRL Y-17628	GCA 003708655.1	97.80%	92.90%	4.90%	0.40%	1.80%
<i>Dipodascus ghanensis</i>	CBS 11010	GCA 022023575.1	97.00%	92.00%	5.00%	0.40%	2.60%
<i>Dipodascus histeridarus</i>	NRRL Y-27729	GCA 030566085.1	98.90%	83.60%	15.30%	0.10%	1.00%
<i>Dipodascus klebahnii</i>	NRRL Y-17568	GCA 030570935.1	98.70%	79.40%	19.30%	0.30%	1.00%
<i>Dipodascus macrosporus</i>	NRRL Y-17586	GCA 030463045.1	96.80%	87.30%	9.50%	1.20%	2.00%
<i>Dipodascus restrictus</i>	CBS 111234	GCA 030563985.1	98.40%	84.20%	14.20%	0.10%	1.50%
<i>Dipodascus siamensis</i>	CBS 10929	GCA 030568955.1	96.20%	91.70%	4.50%	0.90%	2.90%
<i>Galactomyces geotrichum</i>	NRRL Y-17569	GCA 030558905.1	98.70%	91.70%	7.00%	0.30%	1.00%
<i>Galactomyces reessii</i>	NRRL Y-17566	GCA 030570815.1	98.20%	90.90%	7.30%	0.50%	1.30%
<i>Geotrichum candidum</i>	CLIB 918	GCA 001402995.1	98.30%	91.20%	7.10%	0.10%	1.60%
<i>Geotrichum citri-aurantii</i>	CBS 176.89	GCA 030463015.1	98.60%	91.70%	6.90%	0.40%	1.00%
<i>Geotrichum europaeum</i>	CBS 866.68	GCA 030567025.1	96.70%	90.10%	6.60%	1.30%	2.00%
<i>Geotrichum phurueaensis</i>	CBS 11418	GCA 030558065.1	98.30%	91.20%	7.10%	0.40%	1.30%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Groenewaldozyma aurangiensis</i>	NRRL Y-17674	GCA 030574195.1	97.10%	97.00%	0.10%	1.20%	1.70%
<i>Groenewaldozyma salmanticensis</i>	NRRL Y-17090	GCA 003708315.3	97.60%	97.50%	0.10%	0.80%	1.60%
<i>Groenewaldozyma sp.</i>	yHMH443	GCA 030580275.1	97.20%	97.10%	0.10%	0.80%	2.00%
<i>Groenewaldozyma tartarivorans</i>	NRRL Y-27291	GCA 030574255.1	97.50%	97.40%	0.10%	0.70%	1.80%
<i>Magnusiomyces capitatus</i>	NRRL Y-17686	GCA 900497725.1	96.90%	96.80%	0.10%	0.10%	3.00%
<i>Magnusiomyces clavatus</i>	CNRMA 12.647	GCA 000817185.1	97.10%	96.80%	0.30%	0.40%	2.50%
<i>Magnusiomyces ingens</i>	NRRL Y-17630	GCA 900497715.1	92.60%	92.50%	0.10%	1.50%	5.90%
<i>Magnusiomyces magnusii</i>	NRRL Y-17563	GCA 030570155.1	87.70%	39.80%	47.90%	4.90%	7.40%
<i>Magnusiomyces starmeri</i>	NRRL Y-17816	GCA 030578655.1	94.10%	93.80%	0.30%	1.80%	4.10%
<i>Magnusiomyces tetraspermus</i>	NRRL Y-7288	GCA 030578715.1	96.70%	79.90%	16.80%	0.30%	3.00%
<i>Middelhovenomyces tepae</i>	NRRL Y-17670	GCA 003708105.3	98.30%	98.20%	0.10%	0.50%	1.20%
<i>Nadsonia commutata</i>	NRRL Y-7950	GCA 030563525.1	98.70%	95.10%	3.60%	0.70%	0.60%
<i>Nadsonia fulvescens var. elongata</i>	DSM 6958	GCA 001661315.1	96.30%	93.10%	3.20%	2.10%	1.60%
<i>Nadsonia fulvescens var. fulvescens</i>	NRRL Y-12810	GCA 003705595.2	98.60%	95.30%	3.30%	0.40%	1.00%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Nadsonia starkeyi-henricii</i>	UCD142	GCA 003123035.1	99.20%	95.90%	3.30%	0.10%	0.70%
<i>Saprochaete fungicola</i>	N/A	GCA 900654225.1	96.80%	96.80%	0.00%	0.10%	3.10%
<i>Saprochaete ingens</i>	CBS 517.90	GCA 902498895.1	95.40%	95.30%	0.10%	0.70%	3.90%
<i>Saprochaete suaveolens</i>	N/A	GCA 900642975.1	96.00%	75.30%	20.70%	0.30%	3.70%
<i>Spencermartinsiella europaea</i>	NRRL Y-48265	GCA 030579595.1	98.70%	98.00%	0.70%	0.50%	0.80%
<i>Spencermartinsiella ligniputridi</i>	NRRL Y-48818	GCA 030583385.1	99.20%	98.90%	0.30%	0.30%	0.50%
<i>Starmerella apicola</i>	NRRL Y-50540	GCA 001005415.1	80.60%	80.60%	0.00%	2.10%	17.30%
<i>Starmerella apis</i>	NRRL Y-2482	GCA 030564665.1	85.40%	85.40%	0.00%	1.10%	13.50%
<i>Starmerella asiatica</i>	CBS 14173	GCA 030572815.1	80.70%	80.60%	0.10%	2.10%	17.20%
<i>Starmerella bacillaris</i>	CBS 9494	GCA 003260575.1	76.10%	76.10%	0.00%	2.80%	21.10%
<i>Starmerella bombi</i>	NRRL Y-17081	GCA 030579915.1	79.00%	79.00%	0.00%	2.40%	18.60%
<i>Starmerella bombicola</i>	NRRL Y-17069	GCA 004124885.1	81.40%	81.40%	0.00%	2.80%	15.80%
<i>Starmerella cellae</i>	NRRL Y-27860	GCA 030579775.1	78.80%	78.80%	0.00%	2.50%	18.70%
<i>Starmerella davenportii</i>	CBS 9069	GCA 004124985.1	69.00%	68.90%	0.10%	4.90%	26.10%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Starmerella etchellsii</i>	NRRL	GCA	76.10%	76.00%	0.10%	4.40%	19.50%
	Y-17084	030490775.1					
<i>Starmerella floricola</i>	NRRL	GCA	82.40%	82.30%	0.10%	2.00%	15.60%
	Y-17676	030579735.1					
<i>Starmerella floris</i>	NRRL	GCA	73.20%	71.00%	2.20%	4.60%	22.20%
	Y-48255	030555655.1					
<i>Starmerella geochares</i>	NRRL	GCA	80.60%	80.60%	0.00%	4.10%	15.30%
	Y-17073	004125165.1					
<i>Starmerella gropengiesseri</i>	NRRL	GCA	49.10%	49.10%	0.00%	19.80%	31.10%
	Y-17142	030579755.1					
<i>Starmerella khaoyaiensis</i>	NBRC	GCA	81.80%	81.80%	0.00%	1.50%	16.70%
	104213	030563285.1					
<i>Starmerella kuoi</i>	NRRL	GCA	83.90%	83.90%	0.00%	1.60%	14.50%
	Y-27208	004124915.1					
<i>Starmerella lactis-condensi</i>	NRRL	GCA	73.10%	73.10%	0.00%	2.60%	24.30%
	Y-1515	030568935.1					
<i>Starmerella magnoliae</i>	PYCC 2903	GCA	76.50%	76.50%	0.00%	4.70%	18.80%
		003033435.1					
<i>Starmerella potacharoeniae</i>	NBRC	GCA	69.40%	69.10%	0.30%	5.10%	25.50%
	106439	030566975.1					
<i>Starmerella powellii</i>	CBS 8795	GCA	81.80%	81.80%	0.00%	2.10%	16.10%
		030568915.1					
<i>Starmerella ratchasimensis</i>	CBS 10611	GCA	60.80%	60.70%	0.10%	5.10%	34.10%
		004124975.1					
<i>Starmerella riodocensis</i>	NRRL	GCA	72.70%	72.70%	0.00%	6.30%	21.00%
	Y-27859	004124955.1					
<i>Starmerella roubikii</i>	CBS 15148	GCA	79.60%	79.60%	0.00%	2.10%	18.30%
		030584945.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Starmerella scarabaei</i>	CBS 14174	GCA 030565305.1	82.30%	82.30%	0.00%	1.70%	16.00%
<i>Starmerella sirachaensis</i>	NBRC 108605	GCA 030578495.1	82.60%	82.60%	0.00%	1.80%	15.60%
<i>Starmerella sorbosivorans</i>	CBS 8768	GCA 004125005.1	78.40%	78.40%	0.00%	3.70%	17.90%
<i>Starmerella stellata</i>	NRRL Y-1446	GCA 030674195.1	76.50%	76.50%	0.00%	2.40%	21.10%
<i>Starmerella stigmatis</i>	CBS 11464	GCA 030563545.1	81.60%	81.50%	0.10%	2.60%	15.80%
<i>Starmerella tilneyi</i>	CBS 8794	GCA 004125055.1	83.50%	83.40%	0.10%	2.00%	14.50%
<i>Starmerella vaccinii</i>	NRRL Y-17684	GCA 004125185.1	84.00%	83.90%	0.10%	1.80%	14.20%
<i>Starmerella vitae</i>	CBS 15147	GCA 030584925.1	78.50%	78.50%	0.00%	2.80%	18.70%
<i>Sugiyamaella americana</i>	NRRL YB-2067	GCA 030583405.1	99.00%	98.90%	0.10%	0.70%	0.30%
<i>Sugiyamaella boreocaroniense</i>	NRRL YB-1835	GCA 030575195.1	98.10%	98.00%	0.10%	0.40%	1.50%
<i>Sugiyamaella castrensis</i>	NRRL Y-17329	GCA 030583505.1	98.90%	98.40%	0.50%	0.50%	0.60%
<i>Sugiyamaella chiloensis</i>	NRRL Y-17643	GCA 030578775.1	92.60%	92.10%	0.50%	0.90%	6.50%
<i>Sugiyamaella floridensis</i>	NRRL YB-3827	GCA 030556845.1	98.40%	98.30%	0.10%	0.30%	1.30%
<i>Sugiyamaella grinbergsii</i>	NRRL Y-27117	GCA 030579895.1	99.00%	98.90%	0.10%	0.10%	0.90%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Sugiyamaella japonica</i>	NRRL	GCA	99.20%	99.10%	0.10%	0.10%	0.70%
	YB-2798	030583365.1					
<i>Sugiyamaella lignohabitans</i>	CBS 10342	GCA	81.80%	81.70%	0.10%	6.70%	11.50%
		001640025.2					
<i>Sugiyamaella marilandica</i>	NRRL	GCA	98.80%	98.50%	0.30%	0.10%	1.10%
	YB-1847	030563205.1					
<i>Sugiyamaella marionensis</i>	NRRL	SRR169887	98.60%	98.30%	0.30%	0.40%	1.00%
	YB-1336	54					
<i>Sugiyamaella mastotermitis</i>	CBS 14182	GCA	99.20%	98.90%	0.30%	0.40%	0.40%
		030572735.1					
<i>Sugiyamaella neomexicana</i>	NRRL	GCA	98.70%	98.20%	0.50%	0.10%	1.20%
	YB-2450	030555635.1					
<i>Sugiyamaella novakii</i>	NRRL	GCA	98.80%	98.50%	0.30%	0.10%	1.10%
	Y-27346	030575175.1					
<i>Sugiyamaella paludigena</i>	NRRL	GCA	97.70%	97.40%	0.30%	0.70%	1.60%
	Y-12697	030579875.1					
<i>Sugiyamaella pinicola</i>	NRRL	GCA	99.10%	98.80%	0.30%	0.30%	0.60%
	YB-2263	030565085.1					
<i>Sugiyamaella qingdaonensis</i>	CBS 11390	GCA	98.80%	98.50%	0.30%	0.30%	0.90%
		030569235.1					
<i>Sugiyamaella smithiae</i>	NRRL	GCA	99.20%	98.80%	0.40%	0.40%	0.40%
	Y-17850	030579815.1					
<i>Sugiyamaella sp.</i>	yHKS617	GCA	98.30%	98.20%	0.10%	0.30%	1.40%
		030580325.1					
<i>Sugiyamaella valdiviana</i>	NRRL	GCA	98.60%	98.30%	0.30%	0.30%	1.10%
	Y-7791	030570555.1					
<i>Sugiyamaella xylanicola</i>	CBS 12683	GCA	99.00%	98.90%	0.10%	0.30%	0.70%
		001939105.2					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Tardiomyces blankii</i>	NRRL Y-17068	GCA 030573285.1	98.50%	96.70%	1.80%	0.70%	0.80%
<i>Tardiomyces depauwii</i>	NCPF13064	GCA 038086965.1	98.00%	97.60%	0.40%	0.80%	1.20%
<i>Tardiomyces digboiensis</i>	CBS 9800	GCA 030570855.1	86.00%	68.10%	17.90%	8.30%	5.70%
<i>Trichomonascus apis</i>	NRRL Y-48475	GCA 030557665.1	98.50%	97.40%	1.10%	0.50%	1.00%
<i>Trichomonascus ciferrii</i>	NRRL Y-10943	GCA 030573635.1	99.20%	98.40%	0.80%	0.10%	0.70%
<i>Trichomonascus petasosporus</i>	NRRL YB-2092	GCA 030580095.1	98.20%	97.90%	0.30%	0.30%	1.50%
<i>Trichomonascus vanleenenianus</i>	CBS 14902	GCA 030572835.1	98.60%	98.30%	0.30%	0.80%	0.60%
<i>Wickerhamiella allomyrinae</i>	CBS 13167	GCA 030581455.1	92.10%	91.80%	0.30%	1.20%	6.70%
<i>Wickerhamiella alocasiicola</i>	PYCC 8427	GCA 022577715.1	87.40%	86.50%	0.90%	1.30%	11.30%
<i>Wickerhamiella australiensis</i>	NRRL Y-27360	GCA 030579635.1	87.30%	87.30%	0.00%	2.10%	10.60%
<i>Wickerhamiella azymoides</i>	CBS 10508	GCA 030563245.1	84.80%	84.70%	0.10%	2.50%	12.70%
<i>Wickerhamiella bombiphila</i>	NRRL Y-27640	GCA 030561035.1	86.10%	86.00%	0.10%	1.80%	12.10%
<i>Wickerhamiella brachini</i>	CBS 14176	GCA 030565285.1	91.30%	91.20%	0.10%	1.30%	7.40%
<i>Wickerhamiella cacticola</i>	NRRL Y-27362	GCA 003705615.1	88.10%	83.10%	5.00%	1.30%	10.60%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Wickerhamiella dianesei</i>	PYCC 8330	GCA 022577725.1	85.90%	85.90%	0.00%	1.70%	12.40%
<i>Wickerhamiella domercqiae</i>	NRRL Y-6692	GCA 004125175.1	84.40%	84.40%	0.00%	1.70%	13.90%
<i>Wickerhamiella galacta</i>	NRRL Y-17645	GCA 003045245.1	92.20%	92.10%	0.10%	0.80%	7.00%
<i>Wickerhamiella hasegawae</i>	JCM 12559	GCA 004125105.1	90.80%	90.50%	0.30%	1.80%	7.40%
<i>Wickerhamiella infanticola</i>	NRRL Y-17858	GCA 004125145.1	90.30%	89.80%	0.50%	0.90%	8.80%
<i>Wickerhamiella kurtzmanii</i>	PYCC 8437	GCA 022577765.1	87.10%	87.10%	0.00%	1.10%	11.80%
<i>Wickerhamiella lipophila</i>	NRRL Y-27367	GCA 030582055.1	86.80%	86.80%	0.00%	1.80%	11.40%
<i>Wickerhamiella musiphila</i>	CBS 10697	GCA 030558175.1	85.10%	85.00%	0.10%	1.30%	13.60%
<i>Wickerhamiella nectarea</i>	PYCC 8436	GCA 022577815.1	85.80%	85.80%	0.00%	2.00%	12.20%
<i>Wickerhamiella occidentalis</i>	NRRL Y-27364	GCA 004125095.1	86.80%	86.50%	0.30%	2.10%	11.10%
<i>Wickerhamiella pararugosa</i>	NRRL Y-17089	GCA 004125235.1	78.30%	78.20%	0.10%	7.30%	14.40%
<i>Wickerhamiella parazyza</i>	PYCC 8426	GCA 022577825.1	82.40%	82.10%	0.30%	2.80%	14.80%
<i>Wickerhamiella qilinensis</i>	CBS 13929	GCA 030556915.1	89.80%	89.70%	0.10%	1.50%	8.70%
<i>Wickerhamiella sergiensis</i>	CBS 9567	GCA 030563925.1	90.10%	90.00%	0.10%	2.10%	7.80%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Wickerhamiella shivajii</i>	CBS 15893	GCA 030585105.1	87.60%	87.60%	0.00%	1.20%	11.20%
<i>Wickerhamiella siamensis</i>	CBS 13331	GCA 030571815.1	91.10%	90.80%	0.30%	1.50%	7.40%
<i>Wickerhamiella slavikovae</i>	CBS 12417	GCA 030571795.1	81.90%	81.80%	0.10%	2.40%	15.70%
<i>Wickerhamiella sorbophila</i>	DS02	GCA 002251995.2	91.80%	91.00%	0.80%	0.80%	7.40%
<i>Wickerhamiella spandovensis</i>	PYCC 8431	GCA 022577695.1	90.50%	90.40%	0.10%	1.20%	8.30%
<i>Wickerhamiella vanderwaltii</i>	PYCC 3671	GCA 022577775.1	88.10%	88.00%	0.10%	1.30%	10.60%
<i>Wickerhamiella versatilis</i>	NRRL Y-6652	GCA 004125065.1	86.50%	86.10%	0.40%	1.80%	11.70%
<i>Yarrowia alimentaria</i>	CBS 10151	GCA 900518985.1	96.70%	96.60%	0.10%	0.70%	2.60%
<i>Yarrowia brassicae</i>	CBS 15225	GCA 030585005.1	97.70%	97.60%	0.10%	0.40%	1.90%
<i>Yarrowia bubula</i>	NRRL Y-63668	GCA 003707035.1	96.40%	95.30%	1.10%	0.80%	2.80%
<i>Yarrowia deformans</i>	CBS 2071	GCA 900519085.1	97.60%	97.60%	0.00%	0.80%	1.60%
<i>Yarrowia galli</i>	CBS 9722	GCA 900519055.1	97.50%	97.20%	0.30%	0.40%	2.10%
<i>Yarrowia hollandica</i>	CBS 4855	GCA 900519065.1	98.30%	98.20%	0.10%	0.30%	1.40%
<i>Yarrowia keelungensis</i>	CBS 11062	GCA 900519035.1	96.40%	96.40%	0.00%	1.10%	2.50%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Yarrowia lipolytica</i>	CGMCC732 6	GCA 020826875.1	97.50%	97.50%	0.00%	0.50%	2.00%
<i>Yarrowia osloensis</i>	CBS 10146	GCA 900519015.1	96.50%	96.40%	0.10%	0.50%	3.00%
<i>Yarrowia phangngaensis</i>	CBS 10407	GCA 900519005.1	98.00%	98.00%	0.00%	0.50%	1.50%
<i>Yarrowia porcina</i>	CBS 12935	GCA 900519025.1	97.10%	97.00%	0.10%	0.80%	2.10%
<i>Yarrowia yakushimensis</i>	CBS 10253	GCA 900518995.1	97.30%	97.20%	0.10%	0.50%	2.20%
<i>Zygoascus biomembranicola</i>	CBS 14157	GCA 030556875.1	98.90%	98.80%	0.10%	0.00%	1.10%
<i>Zygoascus bituminiphia</i>	CBS 8813	GCA 030705125.1	99.00%	98.90%	0.10%	0.10%	0.90%
<i>Zygoascus flipseniorum</i>	CBS 14876	GCA 030565365.1	98.10%	98.00%	0.10%	0.70%	1.20%
<i>Zygoascus hellenicus</i>	NRRL Y-7136	GCA 030564625.1	94.10%	93.80%	0.30%	0.50%	5.40%
<i>Zygoascus meyeriae</i>	NRRL Y-17319	GCA 003707935.2	97.30%	97.20%	0.10%	0.30%	2.40%
<i>Zygoascus ofunaensis</i>	NRRL Y-10998	GCA 003707925.2	98.30%	98.30%	0.00%	0.00%	1.70%
<i>Zygoascus polysorbophila</i>	NRRL Y-27161	GCA 030563625.1	98.80%	98.50%	0.30%	0.00%	1.20%
<i>Zygoascus tannicola</i>	NRRL Y-17392	GCA 030569095.1	97.50%	97.40%	0.10%	0.00%	2.50%
<i>Pichiomyces</i>							
<i>Alaninales</i>							

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Nakazawaea holstii</i>	NRRL Y-2155	GCA 003706265.1	96.40%	95.60%	0.80%	0.50%	3.10%
<i>Pachysolen tannophilus</i>	NRRL Y-2460	GCA 030573675.1	96.50%	96.00%	0.50%	0.50%	3.00%
<i>Pichiiales</i>							
<i>Allodekкера sacchari</i>	CBS 14167	GCA 030565225.1	93.80%	93.70%	0.10%	0.70%	5.50%
<i>Ambrosiozyma ambrosiae</i>	NRRL Y-7524	GCA 003705185.2	93.30%	93.30%	0.00%	0.70%	6.00%
<i>Ambrosiozyma angophorae</i>	NRRL Y-7118	GCA 030567475.1	86.80%	86.70%	0.10%	0.90%	12.30%
<i>Ambrosiozyma cicatricosa</i>	NRRL Y-17594	GCA 030579935.1	92.10%	91.70%	0.40%	0.50%	7.40%
<i>Ambrosiozyma kamigamensis</i>	NRRL Y-63629	GCA 030572235.1	90.50%	90.50%	0.00%	1.30%	8.20%
<i>Ambrosiozyma kashinagicola</i>	JCM 15019	GCA 001599075.1	95.10%	95.10%	0.00%	0.40%	4.50%
<i>Ambrosiozyma llanquihuensis</i>	NRRL Y-17657	GCA 030568425.1	92.20%	92.20%	0.00%	1.30%	6.50%
<i>Ambrosiozyma maleeae</i>	NRRL Y-63635	GCA 003706635.1	93.80%	93.70%	0.10%	0.70%	5.50%
<i>Ambrosiozyma monospora</i>	JCM 7599	GCA 001599995.1	89.60%	88.30%	1.30%	1.20%	9.20%
<i>Ambrosiozyma neoplatypodis</i>	NRRL Y-63630	GCA 030567495.1	92.30%	92.20%	0.10%	1.10%	6.60%
<i>Ambrosiozyma oregonensis</i>	NRRL Y-6106	GCA 003706315.2	93.90%	93.90%	0.00%	0.40%	5.70%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)																																																																																																																								
<i>Ambrosiozyma philentoma</i>	NRRL	GCA	93.00%	92.70%	0.30%	0.40%	6.60%																																																																																																																								
	Y-7523	003707675.2						<i>Ambrosiozyma platypodis</i>	NRRL	GCA	93.40%	93.40%	0.00%	0.70%	5.90%	Y-7524	003705185.2	<i>Ambrosiozyma pseudovanderkliftii</i>	NRRL	GCA	94.30%	94.30%	0.00%	0.70%	5.00%	Y-63632	003707895.2	<i>Ambrosiozyma vanderkliftii</i>	NRRL	GCA	94.00%	93.90%	0.10%	0.30%	5.70%	Y-63633	003705225.1	<i>Brettanomyces anomalus</i>	NRRL	GCA	91.40%	87.30%	4.10%	0.80%	7.80%	Y-17522	018344455.1	<i>Brettanomyces bruxellensis</i>	NRRL	GCA	80.40%	67.30%	13.10%	5.80%	13.80%	Y-12961	018346845.1	<i>Brettanomyces custersianus</i>	NRRL	GCA	92.20%	91.80%	0.40%	0.90%	6.90%	Y-6653	003705215.2	<i>Brettanomyces naardenensis</i>	NRRL	GCA	93.50%	84.00%	9.50%	0.80%	5.70%	Y-17526	018344465.1	<i>Brettanomyces nanus</i>	CBS 1945	GCA	89.50%	89.40%	0.10%	1.20%	9.30%	011074865.2	<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%	016906875.1	<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA
<i>Ambrosiozyma platypodis</i>	NRRL	GCA	93.40%	93.40%	0.00%	0.70%	5.90%																																																																																																																								
	Y-7524	003705185.2						<i>Ambrosiozyma pseudovanderkliftii</i>	NRRL	GCA	94.30%	94.30%	0.00%	0.70%	5.00%	Y-63632	003707895.2	<i>Ambrosiozyma vanderkliftii</i>	NRRL	GCA	94.00%	93.90%	0.10%	0.30%	5.70%	Y-63633	003705225.1	<i>Brettanomyces anomalus</i>	NRRL	GCA	91.40%	87.30%	4.10%	0.80%	7.80%	Y-17522	018344455.1	<i>Brettanomyces bruxellensis</i>	NRRL	GCA	80.40%	67.30%	13.10%	5.80%	13.80%	Y-12961	018346845.1	<i>Brettanomyces custersianus</i>	NRRL	GCA	92.20%	91.80%	0.40%	0.90%	6.90%	Y-6653	003705215.2	<i>Brettanomyces naardenensis</i>	NRRL	GCA	93.50%	84.00%	9.50%	0.80%	5.70%	Y-17526	018344465.1	<i>Brettanomyces nanus</i>	CBS 1945	GCA	89.50%	89.40%	0.10%	1.20%	9.30%	011074865.2	<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%	016906875.1	<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1				
<i>Ambrosiozyma pseudovanderkliftii</i>	NRRL	GCA	94.30%	94.30%	0.00%	0.70%	5.00%																																																																																																																								
	Y-63632	003707895.2						<i>Ambrosiozyma vanderkliftii</i>	NRRL	GCA	94.00%	93.90%	0.10%	0.30%	5.70%	Y-63633	003705225.1	<i>Brettanomyces anomalus</i>	NRRL	GCA	91.40%	87.30%	4.10%	0.80%	7.80%	Y-17522	018344455.1	<i>Brettanomyces bruxellensis</i>	NRRL	GCA	80.40%	67.30%	13.10%	5.80%	13.80%	Y-12961	018346845.1	<i>Brettanomyces custersianus</i>	NRRL	GCA	92.20%	91.80%	0.40%	0.90%	6.90%	Y-6653	003705215.2	<i>Brettanomyces naardenensis</i>	NRRL	GCA	93.50%	84.00%	9.50%	0.80%	5.70%	Y-17526	018344465.1	<i>Brettanomyces nanus</i>	CBS 1945	GCA	89.50%	89.40%	0.10%	1.20%	9.30%	011074865.2	<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%	016906875.1	<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1														
<i>Ambrosiozyma vanderkliftii</i>	NRRL	GCA	94.00%	93.90%	0.10%	0.30%	5.70%																																																																																																																								
	Y-63633	003705225.1						<i>Brettanomyces anomalus</i>	NRRL	GCA	91.40%	87.30%	4.10%	0.80%	7.80%	Y-17522	018344455.1	<i>Brettanomyces bruxellensis</i>	NRRL	GCA	80.40%	67.30%	13.10%	5.80%	13.80%	Y-12961	018346845.1	<i>Brettanomyces custersianus</i>	NRRL	GCA	92.20%	91.80%	0.40%	0.90%	6.90%	Y-6653	003705215.2	<i>Brettanomyces naardenensis</i>	NRRL	GCA	93.50%	84.00%	9.50%	0.80%	5.70%	Y-17526	018344465.1	<i>Brettanomyces nanus</i>	CBS 1945	GCA	89.50%	89.40%	0.10%	1.20%	9.30%	011074865.2	<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%	016906875.1	<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																								
<i>Brettanomyces anomalus</i>	NRRL	GCA	91.40%	87.30%	4.10%	0.80%	7.80%																																																																																																																								
	Y-17522	018344455.1						<i>Brettanomyces bruxellensis</i>	NRRL	GCA	80.40%	67.30%	13.10%	5.80%	13.80%	Y-12961	018346845.1	<i>Brettanomyces custersianus</i>	NRRL	GCA	92.20%	91.80%	0.40%	0.90%	6.90%	Y-6653	003705215.2	<i>Brettanomyces naardenensis</i>	NRRL	GCA	93.50%	84.00%	9.50%	0.80%	5.70%	Y-17526	018344465.1	<i>Brettanomyces nanus</i>	CBS 1945	GCA	89.50%	89.40%	0.10%	1.20%	9.30%	011074865.2	<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%	016906875.1	<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																																		
<i>Brettanomyces bruxellensis</i>	NRRL	GCA	80.40%	67.30%	13.10%	5.80%	13.80%																																																																																																																								
	Y-12961	018346845.1						<i>Brettanomyces custersianus</i>	NRRL	GCA	92.20%	91.80%	0.40%	0.90%	6.90%	Y-6653	003705215.2	<i>Brettanomyces naardenensis</i>	NRRL	GCA	93.50%	84.00%	9.50%	0.80%	5.70%	Y-17526	018344465.1	<i>Brettanomyces nanus</i>	CBS 1945	GCA	89.50%	89.40%	0.10%	1.20%	9.30%	011074865.2	<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%	016906875.1	<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																																												
<i>Brettanomyces custersianus</i>	NRRL	GCA	92.20%	91.80%	0.40%	0.90%	6.90%																																																																																																																								
	Y-6653	003705215.2						<i>Brettanomyces naardenensis</i>	NRRL	GCA	93.50%	84.00%	9.50%	0.80%	5.70%	Y-17526	018344465.1	<i>Brettanomyces nanus</i>	CBS 1945	GCA	89.50%	89.40%	0.10%	1.20%	9.30%	011074865.2	<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%	016906875.1	<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																																																						
<i>Brettanomyces naardenensis</i>	NRRL	GCA	93.50%	84.00%	9.50%	0.80%	5.70%																																																																																																																								
	Y-17526	018344465.1						<i>Brettanomyces nanus</i>	CBS 1945	GCA	89.50%	89.40%	0.10%	1.20%	9.30%	011074865.2	<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%	016906875.1	<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																																																																
<i>Brettanomyces nanus</i>	CBS 1945	GCA	89.50%	89.40%	0.10%	1.20%	9.30%																																																																																																																								
		011074865.2						<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%	016906875.1	<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																																																																									
<i>Brettanomyces sp.</i>	kh3	GCA	88.40%	83.80%	4.60%	1.80%	9.80%																																																																																																																								
		016906875.1						<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%	YB-2248	030567675.1	<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																																																																																		
<i>Candida arabinofementans</i>	NRRL	GCA	95.90%	95.60%	0.30%	0.50%	3.60%																																																																																																																								
	YB-2248	030567675.1						<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%	030563725.1	<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																																																																																												
<i>Candida awuuae</i>	CBS 11011	GCA	85.50%	85.40%	0.10%	0.80%	13.70%																																																																																																																								
		030563725.1						<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%	Y-2332	003243125.1	<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																																																																																																					
<i>Candida boidinii</i>	NRRL	GCA	93.90%	93.80%	0.10%	0.70%	5.40%																																																																																																																								
	Y-2332	003243125.1						<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%	030569495.1																																																																																																															
<i>Candida cabralensis</i>	CBS 11679	GCA	84.10%	84.00%	0.10%	1.10%	14.80%																																																																																																																								
		030569495.1																																																																																																																													

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida californica</i>	Olga-1	GCA 016584265.1	86.60%	86.50%	0.10%	1.30%	12.10%
<i>Candida ethanolica</i>	NRRL Y-12615	GCA 030570435.1	88.30%	88.00%	0.30%	1.50%	10.20%
<i>Candida inconspicua</i>	CBS 180	GCA 004931855.1	86.00%	85.90%	0.10%	1.70%	12.30%
<i>Candida insectalens</i>	NRRL Y-7778	GCA 030574155.1	92.60%	92.60%	0.00%	0.90%	6.50%
<i>Candida krabiensis</i>	NRRL Y-27965	GCA 030582815.1	96.10%	95.80%	0.30%	0.40%	3.50%
<i>Candida maris</i>	NRRL Y-6696	GCA 030557505.1	94.40%	94.30%	0.10%	0.50%	5.10%
<i>Candida mattraensis</i>	CBS 12097	GCA 030564055.1	95.70%	95.60%	0.10%	0.80%	3.50%
<i>Candida methanosorbosa</i>	NRRL Y-17320	GCA 030570755.1	96.00%	95.90%	0.10%	0.40%	3.60%
<i>Candida nanaspora</i>	NRRL Y-17679	GCA 030557475.1	94.90%	94.60%	0.30%	0.70%	4.40%
<i>Candida nemodendra</i>	NRRL Y-7779	GCA 030567775.1	95.40%	95.30%	0.10%	0.80%	3.80%
<i>Candida nitratophila</i>	NRRL YB-3654	GCA 030567875.1	94.60%	94.30%	0.30%	1.10%	4.30%
<i>Candida ortonii</i>	NRRL Y-48038	GCA 030561785.1	92.20%	92.10%	0.10%	1.10%	6.70%
<i>Candida ovalis</i>	NRRL Y-17662	GCA 030556425.1	95.80%	95.40%	0.40%	0.40%	3.80%
<i>Candida phayaonensis</i>	NBRC 108868	GCA 030558305.1	84.80%	84.70%	0.10%	1.70%	13.50%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida piceae</i>	NRRL	GCA	95.70%	95.40%	0.30%	0.30%	4.00%
	YB-2107	030567815.1					
<i>Candida pignaliae</i>	NRRL	GCA	95.60%	95.30%	0.30%	0.70%	3.70%
	Y-17664	030570775.1					
<i>Candida pini</i>	NRRL	GCA	94.20%	93.90%	0.30%	0.80%	5.00%
	Y-2023	030567935.1					
<i>Candida pseudolambica</i>	NRRL	GCA	78.40%	78.00%	0.40%	5.30%	16.30%
	Y-17318	030569595.1					
<i>Candida rishiriensis</i>	NBRC	GCA	95.00%	94.20%	0.80%	0.80%	4.20%
	105027	030569615.1					
<i>Candida rugopelliculosa</i>	NRRL	GCA	83.70%	83.40%	0.30%	0.90%	15.40%
	Y-17079	030570335.1					
<i>Candida silvatica</i>	NRRL	GCA	90.20%	90.20%	0.00%	0.80%	9.00%
	Y-7777	030564685.1					
<i>Candida sithepensis</i>	JCM 12265	GCA	95.10%	95.00%	0.10%	0.70%	4.20%
		030564825.1					
<i>Candida sonorensis</i>	NRRL	GCA	95.20%	94.90%	0.30%	0.70%	4.10%
	Y-7800	030567855.1					
<i>Candida sorboxylosa</i>	NRRL	GCA	81.90%	81.90%	0.00%	2.10%	16.00%
	Y-17669	030564865.1					
<i>Candida</i> sp.	NRRL	GCA	93.80%	93.70%	0.10%	1.20%	5.00%
	Y-12764	030579995.1					
<i>Candida succiphila</i>	JCM 9445	GCA	93.00%	92.90%	0.10%	0.80%	6.20%
		001599255.1					
<i>Candida suzukii</i>	NRRL	GCA	94.70%	94.60%	0.10%	0.70%	4.60%
	Y-27593	030568155.1					
<i>Candida thaimueangensis</i>	NBRC	GCA	87.00%	86.90%	0.10%	1.20%	11.80%
	101967	030569635.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida xylosterini</i>	CBS 11547	GCA 030573155.1	92.50%	92.00%	0.50%	1.50%	6.00%
<i>Citeromyces hawaiiensis</i>	NRRL Y-11581	GCA 030567395.1	94.00%	93.90%	0.10%	1.80%	4.20%
<i>Citeromyces matritensis</i>	NRRL Y-2407	GCA 030570875.1	94.60%	91.60%	3.00%	0.70%	4.70%
<i>Citeromyces nyonsensis</i>	CBS 12700	GCA 030580415.1	93.90%	93.00%	0.90%	1.20%	4.90%
<i>Citeromyces siamensis</i>	NRRL Y-27975	GCA 003706365.1	90.10%	65.30%	24.80%	3.20%	6.70%
<i>Komagataella kurtzmanii</i>	VKPM Y-727	GCA 022533605.1	93.90%	93.80%	0.10%	0.80%	5.30%
<i>Komagataella mondaviorum</i>	CBS 15017	GCA 023213015.1	95.10%	95.00%	0.10%	0.80%	4.10%
<i>Komagataella pastoris</i>	ATCC 28485	GCA 001708105.1	94.30%	94.20%	0.10%	0.90%	4.80%
<i>Komagataella phaffii</i>	CBS 7435	GCA 900235035.2	96.40%	96.30%	0.10%	0.50%	3.10%
<i>Komagataella populi</i>	NRRL YB-455	GCA 003705255.2	93.90%	93.80%	0.10%	1.20%	4.90%
<i>Komagataella pseudopastoris</i>	NRRL Y-27603	GCA 003671595.2	94.00%	93.90%	0.10%	0.70%	5.30%
<i>Komagataella ulmi</i>	CBS 12361	GCA 023213065.1	95.20%	95.10%	0.10%	0.70%	4.10%
<i>Kregervanrija delftensis</i>	NRRL Y-7119	GCA 003707205.2	92.70%	92.60%	0.10%	0.70%	6.60%
<i>Kregervanrija fluxuum</i>	NRRL YB-4273	GCA 003707275.2	93.30%	93.00%	0.30%	0.70%	6.00%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Kregervanrija pseudodelftensis</i>	NRRL	GCA	93.60%	93.50%	0.10%	0.70%	5.70%
	Y-5494	030580115.1					
<i>Kuraishia borneana</i>	CBS 12507	GCA	94.60%	94.30%	0.30%	1.50%	3.90%
		030569035.1					
<i>Kuraishia capsulata</i>	CBS 1993	GCA	95.60%	95.30%	0.30%	0.90%	3.50%
		000576695.1					
<i>Kuraishia cidri</i>	NRRL	GCA	98.50%	98.20%	0.30%	0.10%	1.40%
	Y-27078	030557465.1					
<i>Kuraishia floccosa</i>	NRRL	GCA	96.20%	96.20%	0.00%	0.70%	3.10%
	Y-27951	030567535.1					
<i>Kuraishia hungarica</i>	NRRL	GCA	97.80%	97.80%	0.00%	0.50%	1.70%
	Y-27594	030567555.1					
<i>Kuraishia molischiana</i>	NRRL	GCA	96.70%	96.60%	0.10%	0.80%	2.50%
	Y-27899	003706305.2					
<i>Kuraishia ogatae</i>	NRRL	GCA	97.90%	97.60%	0.30%	0.40%	1.70%
	Y-48474	003706285.2					
<i>Kuraishia piskuri</i>	NRRL	GCA	97.40%	97.10%	0.30%	0.40%	2.20%
	YB-2544	030567595.1					
<i>Martiniozyma abietophila</i>	NRRL	GCA	85.10%	82.50%	2.60%	2.10%	12.80%
	Y-11514	030564585.1					
<i>Martiniozyma asiatica</i>	NRRL	GCA	83.00%	83.00%	0.00%	2.40%	14.60%
	Y-63747	030572475.1					
<i>Ogataea allantospora</i>	NRRL	GCA	94.20%	94.10%	0.10%	0.80%	5.00%
	Y-48267	030572655.1					
<i>Ogataea angusta</i>	CBS 2575	GCA	92.60%	92.60%	0.00%	2.10%	5.30%
		019207455.1					
<i>Ogataea chonburiensis</i>	CBS 10363	GCA	90.20%	90.20%	0.00%	1.20%	8.60%
		030578415.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Ogataea corticis</i>	NBRC 1794	GCA 030555865.1	95.90%	95.60%	0.30%	0.80%	3.30%
<i>Ogataea degrootiae</i>	UCD465	GCA 019232045.1	95.30%	95.00%	0.30%	0.70%	4.00%
<i>Ogataea dorogensis</i>	NRRL Y-27599	GCA 030568015.1	92.70%	92.70%	0.00%	1.10%	6.20%
<i>Ogataea ganodermae</i>	CBS 10646	GCA 030569375.1	95.60%	95.50%	0.10%	0.90%	3.50%
<i>Ogataea glucozyma</i>	NRRL YB-2185	GCA 003706155.1	96.10%	90.00%	6.10%	0.70%	3.20%
<i>Ogataea haglerorum</i>	83-474-2	GCA 019206905.1	91.40%	91.40%	0.00%	2.10%	6.50%
<i>Ogataea henricii</i>	NRRL YB-2194	GCA 003705115.1	95.30%	95.00%	0.30%	0.90%	3.80%
<i>Ogataea kodamae</i>	NRRL Y-17234	GCA 003706165.2	91.80%	91.80%	0.00%	1.30%	6.90%
<i>Ogataea methanolica</i>	JCM 10240	GCA 001600755.1	95.40%	94.90%	0.50%	0.80%	3.80%
<i>Ogataea methylovora</i>	NRRL Y-17250	GCA 003706205.1	97.50%	90.50%	7.00%	0.50%	2.00%
<i>Ogataea minuta</i>	NRRL Y-411	GCA 003706195.1	93.00%	92.90%	0.10%	1.20%	5.80%
<i>Ogataea naganishii</i>	NRRL Y-7654	GCA 003706235.1	94.70%	94.60%	0.10%	1.10%	4.20%
<i>Ogataea nakhonphanomensis</i>	CBS 10362	GCA 030564965.1	93.10%	93.10%	0.00%	0.90%	6.00%
<i>Ogataea neopini</i>	AB440274	GCA 030578575.1	93.40%	93.30%	0.10%	0.80%	5.80%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Ogataea nitrataversa</i>	NRRL	GCA	95.20%	94.90%	0.30%	0.70%	4.10%
	Y-48449	003705625.1					
<i>Ogataea nonfermentans</i>	NRRL	GCA	95.00%	77.80%	17.20%	0.90%	4.10%
	YB-2203	003706255.1					
<i>Ogataea paradorogensis</i>	CBS 10978	GCA	93.00%	92.90%	0.10%	0.80%	6.20%
		030555885.1					
<i>Ogataea paraovalis</i>	CBS 14697	GCA	95.70%	95.40%	0.30%	0.70%	3.60%
		030565405.1					
<i>Ogataea parapolyomorpha</i>	CBS 12304	GCA	93.40%	93.40%	0.00%	1.30%	5.30%
		019207935.1					
<i>Ogataea philodendri</i>	NRRL	GCA	90.90%	90.90%	0.00%	1.30%	7.80%
	Y-7210	003706115.2					
<i>Ogataea pilisensis</i>	NRRL	GCA	95.70%	95.60%	0.10%	0.40%	3.90%
	Y-27598	003707685.1					
<i>Ogataea pini</i>	NRRL	GCA	95.90%	95.80%	0.10%	0.40%	3.70%
	Y-11528	003707665.1					
<i>Ogataea polymorpha</i>	NCYC 495	GCA	90.00%	90.00%	0.00%	2.40%	7.60%
	leu1.1	001664045.1					
<i>Ogataea populiabae</i>	NRRL	GCA	96.30%	96.20%	0.10%	0.40%	3.30%
	Y-48632	030579375.1					
<i>Ogataea ramenticola</i>	NRRL	GCA	95.70%	95.60%	0.10%	0.80%	3.50%
	YB-1985	003706105.2					
<i>Ogataea salicorniae</i>	NRRL	GCA	95.10%	95.00%	0.10%	0.50%	4.40%
	Y-12834	030557545.1					
<i>Ogataea saltuana</i>	NRRL	GCA	96.00%	95.60%	0.40%	0.70%	3.30%
	Y-48448	030674545.1					
<i>Ogataea siamensis</i>	NRRL	GCA	90.90%	90.90%	0.00%	1.60%	7.50%
	Y-27963	030574315.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Ogataea sp.</i>	NRRL YB-2437	GCA 030570735.1	96.50%	96.20%	0.30%	0.50%	3.00%
<i>Ogataea sp.</i>	NRRL Y-27170	GCA 030567915.1	94.70%	94.60%	0.10%	0.50%	4.80%
<i>Ogataea sp.</i>	NRRL YB-2442	GCA 030567955.1	92.30%	92.30%	0.00%	0.50%	7.20%
<i>Ogataea sp.</i>	NRRL Y-27166	GCA 030563385.1	93.90%	93.80%	0.10%	0.90%	5.20%
<i>Ogataea sp.</i>	NRRL YB-1238	GCA 030567895.1	95.40%	95.30%	0.10%	0.50%	4.10%
<i>Ogataea sp.</i>	yHMJ1	GCA 030571015.1	94.40%	94.30%	0.10%	0.80%	4.80%
<i>Ogataea thermomethanolica</i>	NRRL Y-27981	GCA 030674565.1	93.10%	93.10%	0.00%	0.90%	6.00%
<i>Ogataea thermophila</i>	NCAIM Y.01608	GCA 020536115.1	92.90%	92.90%	0.00%	1.70%	5.40%
<i>Ogataea trehaloabstinens</i>	NRRL Y-27595	GCA 003706095.1	94.60%	94.50%	0.10%	0.80%	4.60%
<i>Ogataea trehalophila</i>	NRRL Y-6781	GCA 003707645.1	95.50%	95.40%	0.10%	0.50%	4.00%
<i>Ogataea wickerhamii</i>	NRRL YB-4943	GCA 030559035.1	93.90%	93.80%	0.10%	0.80%	5.30%
<i>Ogataea zsoltii</i>	NRRL Y-27601	GCA 003709205.2	95.80%	95.50%	0.30%	0.80%	3.40%
<i>Pichia cactophila</i>	NRRL Y-10963	GCA 030563965.1	86.40%	86.30%	0.10%	1.50%	12.10%
<i>Pichia cephalocereana</i>	NRRL Y-17225	GCA 030565065.1	86.50%	86.40%	0.10%	1.80%	11.70%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Pichia deserticola</i>	NRRL	GCA	88.80%	88.70%	0.10%	0.70%	10.50%
	Y-12918	030570135.1					
<i>Pichia eremophila</i>	NRRL	GCA	85.70%	85.40%	0.30%	1.60%	12.70%
	Y-17224	030579415.1					
<i>Pichia exigua</i>	NRRL	GCA	86.20%	86.10%	0.10%	1.30%	12.50%
	Y-10920	003707355.1					
<i>Pichia fermentans</i>	fo MP 02	GCA	82.60%	82.60%	0.00%	1.80%	15.60%
		003339355.1					
<i>Pichia gijzenarium</i>	CBS 15024	GCA	82.60%	82.60%	0.00%	2.50%	14.90%
		030556995.1					
<i>Pichia heedii</i>	NRRL	GCA	86.30%	86.00%	0.30%	1.60%	12.10%
	Y-10967	003705525.2					
<i>Pichia insulana</i>	CBS 11169	GCA	87.30%	87.30%	0.00%	1.30%	11.40%
		030558495.1					
<i>Pichia kluyveri</i>	B7036	GCA	82.90%	81.10%	1.80%	2.50%	14.60%
		023629335.1					
<i>Pichia kudriavzevii</i>	NRRL	GCA	88.90%	87.20%	1.70%	0.40%	10.70%
	Y-5396	003705515.2					
<i>Pichia mandshurica</i>	NRRL	GCA	89.20%	88.90%	0.30%	1.30%	9.50%
	Y-27978T	030578975.1					
<i>Pichia membranifaciens</i>	KS47-1	GCA	64.80%	64.80%	0.00%	5.40%	29.80%
		001950575.1					
<i>Pichia nakasei</i>	NRRL	GCA	78.40%	78.10%	0.30%	3.40%	18.20%
	Y-7686	003705495.1					
<i>Pichia nanzhaoensis</i>	CBS 15346	GCA	82.50%	82.50%	0.00%	1.70%	15.80%
		030573035.1					
<i>Pichia norvegensis</i>	NRRL	GCA	86.90%	85.40%	1.50%	1.60%	11.50%
	Y-7687	003705465.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Pichia occidentalis</i>	NRRL Y-7552	GCA 003705455.2	89.60%	89.20%	0.40%	1.20%	9.20%
<i>Pichia paraexigua</i>	CBS 15237	GCA 030573095.1	85.50%	85.20%	0.30%	1.80%	12.70%
<i>Pichia pseudocactophila</i>	NRRL Y-17239	GCA 030580035.1	81.70%	81.70%	0.00%	2.20%	16.10%
<i>Pichia scutulata</i>	NRRL Y-7663	GCA 030560845.1	84.30%	84.30%	0.00%	1.70%	14.00%
<i>Pichia sp.</i>	NRRL Y-12824	GCA 030560915.1	82.30%	82.20%	0.10%	2.00%	15.70%
<i>Pichia sp.</i>	NRRL Y-12827	GCA 030570315.1	86.20%	85.90%	0.30%	1.80%	12.00%
<i>Pichia sp.</i>	NRRL Y-12830	GCA 030564565.1	85.60%	85.50%	0.10%	1.30%	13.10%
<i>Pichia sp.</i>	NRRL Y-27259	GCA 030563085.1	88.70%	88.40%	0.30%	1.50%	9.80%
<i>Pichia sp.</i>	NRRL Y-27261	GCA 030569835.1	85.90%	38.80%	47.10%	2.00%	12.10%
<i>Pichia sp.</i>	NRRL YB-4149	GCA 030556025.1	73.00%	73.00%	0.00%	1.10%	25.90%
<i>Pichia sp.</i>	yHKS168	GCA 030571145.1	88.90%	88.80%	0.10%	0.80%	10.30%
<i>Pichia sp.</i>	yHMH446	GCA 030555725.1	83.80%	83.80%	0.00%	1.80%	14.40%
<i>Pichia sporocuriosa</i>	NRRL Y-27347	GCA 030574275.1	88.60%	88.50%	0.10%	1.60%	9.80%
<i>Pichia terricola</i>	NRRL YB-4310	GCA 030581875.1	85.80%	85.50%	0.30%	0.80%	13.40%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Saturnispora ahearnii</i>	NRRL Y-7555	GCA 030564945.1	86.60%	86.50%	0.10%	0.80%	12.60%
<i>Saturnispora besseyi</i>	NRRL Y-63574	GCA 030571455.1	86.40%	86.30%	0.10%	1.10%	12.50%
<i>Saturnispora bothae</i>	yHDO578	GCA 030462855.1	83.80%	83.80%	0.00%	1.80%	14.40%
<i>Saturnispora dispersa</i>	NRRL Y-1447	GCA 003708095.2	86.20%	86.10%	0.10%	1.30%	12.50%
<i>Saturnispora diversa</i>	NRRL Y-5713	GCA 030560905.1	86.80%	86.80%	0.00%	0.70%	12.50%
<i>Saturnispora galanensis</i>	CBS 15223	GCA 030584985.1	85.00%	85.00%	0.00%	1.30%	13.70%
<i>Saturnispora gosینگensis</i>	NRRL Y-48718	GCA 030570395.1	86.60%	86.50%	0.10%	1.20%	12.20%
<i>Saturnispora hagleri</i>	NRRL Y-27828	GCA 003707255.1	86.20%	86.10%	0.10%	0.90%	12.90%
<i>Saturnispora halmiae</i>	CBS 11009	GCA 030563645.1	84.00%	83.90%	0.10%	0.90%	15.10%
<i>Saturnispora kantuleensis</i>	CBS 15217	GCA 030557035.1	84.80%	84.70%	0.10%	1.50%	13.70%
<i>Saturnispora mendoncae</i>	NRRL Y-11515	GCA 003705365.1	79.70%	79.30%	0.40%	2.20%	18.10%
<i>Saturnispora quitensis</i>	CBS 12184	GCA 030581435.1	86.20%	86.10%	0.10%	1.20%	12.60%
<i>Saturnispora saitoi</i>	NRRL Y-6671	GCA 003707305.1	86.00%	85.90%	0.10%	1.20%	12.80%
<i>Saturnispora sanitii</i>	CBS 10864	GCA 030563185.1	82.50%	82.50%	0.00%	1.80%	15.70%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Saturnispora sekii</i>	CBS 10931	GCA 030563565.1	85.50%	85.40%	0.10%	1.50%	13.00%
<i>Saturnispora serradocipensis</i>	NRRL Y-48717	GCA 003705415.1	85.60%	85.50%	0.10%	1.30%	13.10%
<i>Saturnispora silvae</i>	NRRL Y-6725	GCA 003707315.2	83.90%	83.90%	0.00%	1.80%	14.30%
<i>Saturnispora zaruensis</i>	NRRL Y-7008	GCA 003705435.1	86.50%	86.40%	0.10%	0.90%	12.60%
<i>Serinales</i>							
<i>Aciculoconidium aculeatum</i>	NRRL YB-4298	GCA 030579395.1	95.70%	95.60%	0.10%	0.70%	3.60%
<i>Australozyma bambusicola</i>	CBS 11723	GCA 030563705.1	92.60%	92.60%	0.00%	0.50%	6.90%
<i>Australozyma nongkhaiensis</i>	CBS 11724	GCA 030563825.1	92.90%	92.90%	0.00%	0.50%	6.60%
<i>Australozyma picinguabensis</i>	NRRL Y-27814	GCA 030582875.1	93.30%	93.30%	0.00%	0.40%	6.30%
<i>Australozyma robnetiae</i>	CBS 8580	GCA 030568975.1	92.30%	92.30%	0.00%	0.50%	7.20%
<i>Australozyma saccharicola</i>	CBS 12575	GCA 030569455.1	93.10%	93.10%	0.00%	0.50%	6.40%
<i>Australozyma saopauloensis</i>	NRRL Y-27815	GCA 030582915.1	93.00%	93.00%	0.00%	0.70%	6.30%
<i>Australozyma succicola</i>	CBS 11726	GCA 030563905.1	93.00%	93.00%	0.00%	0.70%	6.30%
<i>Australozyma touchengensis</i>	CBS 10585	GCA 030566735.1	92.30%	92.30%	0.00%	0.50%	7.20%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Babjeviella inositovora</i>	NRRL	GCA	94.20%	93.90%	0.30%	0.10%	5.70%
	Y-12698	030561425.1					
<i>Candida aaseri</i>	B8007	GCA	92.60%	92.60%	0.00%	1.30%	6.10%
		023623315.1					
<i>Candida africana</i>	CEC4854	GCA	79.70%	79.20%	0.50%	0.80%	19.50%
		019359905.1					
<i>Candida alai</i>	NRRL	GCA	96.10%	96.00%	0.10%	0.30%	3.60%
	Y-27739	030572135.1					
<i>Candida albicans</i>	SC5314	GCA	95.50%	92.60%	2.90%	0.80%	3.70%
		000784655.1					
<i>Candida andamanensis</i>	CBS 10859	GCA	93.40%	93.40%	0.00%	0.80%	5.80%
		030569055.1					
<i>Candida anglica</i>	NRRL	GCA	88.30%	87.90%	0.40%	0.40%	11.30%
	Y-27079	030557785.1					
' <i>Candida anglica</i> '	VS III C KN	GCA	97.00%	96.70%	0.30%	0.10%	2.90%
	3	019775655.1					
<i>Candida anutae</i>	NRRL	GCA	92.90%	92.90%	0.00%	0.80%	6.30%
	Y-27374	030566955.1					
<i>Candida argentea</i>	CBS 12358	GCA	90.30%	90.20%	0.10%	1.10%	8.60%
		030581555.1					
<i>Candida ascalaphidarum</i>	NRRL	GCA	94.70%	94.60%	0.10%	0.50%	4.80%
	Y-27908	003708745.2					
<i>Candida atlantica</i>	NRRL	GCA	92.40%	92.30%	0.10%	1.30%	6.30%
	Y-17759	030561325.1					
<i>Candida atmosphaerica</i>	NRRL	GCA	95.40%	95.30%	0.10%	0.40%	4.20%
	Y-17642	030574775.1					
<i>Candida aurita</i>	CBS 9724	GCA	96.00%	95.90%	0.10%	0.30%	3.70%
		030566905.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida blackwelliae</i>	CBS 10843	GCA 030579015.1	92.00%	91.60%	0.40%	2.40%	5.60%
<i>Candida blattariae</i>	NRRL Y-27703	GCA 030581595.1	93.50%	93.50%	0.00%	0.70%	5.80%
<i>Candida bohioensis</i>	NRRL Y-27737	GCA 030582535.1	95.70%	95.60%	0.10%	0.10%	4.20%
<i>Candida boleticola</i>	NRRL Y-17080	GCA 030570215.1	95.30%	95.00%	0.30%	0.50%	4.20%
<i>Candida broadrunensis</i>	CBS 11838	GCA 030563665.1	96.10%	95.80%	0.30%	0.30%	3.60%
<i>Candida buenavistaensis</i>	NRRL Y-27734	GCA 030582575.1	93.60%	90.00%	3.60%	2.40%	4.00%
<i>Candida buinensis</i>	NRRL Y-11706	GCA 030571035.1	92.00%	92.00%	0.00%	0.40%	7.60%
<i>Candida caryicola</i>	NRRL YB-1499	GCA 030568635.1	95.60%	95.60%	0.00%	0.50%	3.90%
<i>Candida cerambycidarum</i>	NRRL Y-27706	GCA 030574835.1	95.00%	95.00%	0.00%	0.50%	4.50%
<i>Candida chauliodis</i>	NRRL Y-27909	GCA 030557115.1	95.10%	95.10%	0.00%	0.40%	4.50%
<i>Candida chilensis</i>	NRRL Y-17141	GCA 030573195.1	99.50%	99.20%	0.30%	0.00%	0.50%
<i>Candida citri</i>	CBS 11858	GCA 030571295.1	93.70%	93.70%	0.00%	0.70%	5.60%
<i>Candida coleopterorum</i>	CBS 14180	GCA 030565325.1	93.80%	93.70%	0.10%	0.70%	5.50%
<i>Candida conglobata</i>	NRRL Y-1504	GCA 030572275.1	95.40%	95.30%	0.10%	0.30%	4.30%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida corydali</i>	NRRL Y-27910	GCA 003706475.2	94.30%	89.60%	4.70%	0.30%	5.40%
<i>Candida danieliae</i>	CBS 8533	GCA 030579135.1	92.60%	92.60%	0.00%	0.70%	6.70%
<i>Candida dendronema</i>	NRRL Y-7781	GCA 030572355.1	94.30%	94.30%	0.00%	1.10%	4.60%
<i>Candida diddensiae</i>	NRRL Y-7589	GCA 030563465.1	94.30%	94.30%	0.00%	1.10%	4.60%
<i>Candida diospyri</i>	CBS 9769	GCA 030579195.1	93.90%	93.90%	0.00%	0.80%	5.30%
<i>Candida dubliniensis</i>	CD36	GCA 000026945.1	96.90%	96.40%	0.50%	0.30%	2.80%
<i>Candida endomychidarum</i>	NRRL Y-27708	GCA 030582775.1	93.50%	93.50%	0.00%	0.40%	6.10%
<i>Candida fluviatilis</i>	NRRL Y-7711	GCA 030560825.1	96.60%	96.60%	0.00%	0.30%	3.10%
<i>Candida friedrichii</i>	NRRL Y-17653	GCA 030565865.1	94.20%	94.20%	0.00%	0.50%	5.30%
<i>Candida frijolesensis</i>	NRRL Y-48060	GCA 030557105.1	92.60%	89.60%	3.00%	1.20%	6.20%
<i>Candida germanica</i>	NRRL Y-27064	GCA 030574815.1	93.00%	93.00%	0.00%	1.20%	5.80%
<i>Candida gigantensis</i>	NRRL Y-27736	GCA 030557085.1	94.10%	93.40%	0.70%	1.30%	4.60%
<i>Candida glabosa</i>	NRRL Y-6949	GCA 030564305.1	96.20%	96.20%	0.00%	0.00%	3.80%
<i>Candida glucosophila</i>	NRRL Y-17219	GCA 030572315.1	95.10%	4.60%	90.50%	0.30%	4.60%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida golubevii</i>	NRRL	GCA	93.80%	93.80%	0.00%	1.10%	5.10%
	Y-48707	003708755.1					
<i>Candida gorgasii</i>	NRRL	GCA	95.10%	95.10%	0.00%	0.50%	4.40%
	Y-27707	003708985.2					
<i>Candida hainanensis</i>	NRRL	GCA	91.80%	91.70%	0.10%	1.70%	6.50%
	Y-48715	030561765.1					
<i>Candida insectorum</i>	NRRL	GCA	95.00%	95.00%	0.00%	0.70%	4.30%
	Y-7787	030574895.1					
<i>Candida jaroonii</i>	CLIB 1444	GCA	95.80%	95.80%	0.00%	0.50%	3.70%
		943733655.1					
<i>Candida jiufengensis</i>	CBS 10846	GCA	95.30%	95.30%	0.00%	0.10%	4.60%
		024610255.1					
<i>Candida kanchanaburiensis</i>	NBRC	GCA	92.50%	92.50%	0.00%	1.10%	6.40%
	104475	030555785.1					
<i>Candida khao-thaluensis</i>	CBS 8535	GCA	95.40%	95.30%	0.10%	0.40%	4.20%
		030563265.1					
<i>Candida koratica</i>	NBRC	GCA	92.90%	92.90%	0.00%	0.80%	6.30%
	103208	030572455.1					
<i>Candida labiduridarum</i>	NRRL	GCA	95.40%	94.50%	0.90%	0.10%	4.50%
	Y-27940	030572435.1					
<i>Candida lessepsii</i>	NRRL	GCA	95.40%	95.40%	0.00%	0.50%	4.10%
	Y-27766	030563485.1					
<i>Candida loeiensis</i>	CBS 11899	GCA	92.20%	92.10%	0.10%	1.30%	6.50%
		030563775.1					
<i>Candida lyxosophila</i>	NRRL	GCA	95.00%	93.90%	1.10%	0.70%	4.30%
	Y-17539	030582855.1					
<i>Candida maltosa</i>	Xu316	GCA	95.20%	95.10%	0.10%	0.50%	4.30%
		000344705.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida manassasensis</i>	CBS 12534	GCA 030569175.1	96.70%	96.60%	0.10%	0.30%	3.00%
<i>Candida margitis</i>	CBS 14175	GCA 024628925.1	94.80%	94.10%	0.70%	0.10%	5.10%
<i>Candida membranifaciens</i>	NRRL Y-2089	GCA 030572415.1	95.00%	95.00%	0.00%	0.30%	4.70%
<i>Candida membranifaciens subsp. flavinogenes</i>	IST 626	GCA 022457055.1	95.00%	95.00%	0.00%	0.30%	4.70%
<i>Candida mesenterica</i>	UWOPS91-1 21.2	GCA 015708695.1	95.90%	95.60%	0.30%	0.40%	3.70%
<i>Candida metapsilosis</i>	ATCC 96143	GCA 008904905.1	86.20%	83.20%	3.00%	2.40%	11.40%
<i>Candida michaelii</i>	NRRL Y-27705	GCA 030572395.1	94.30%	94.30%	0.00%	0.90%	4.80%
<i>Candida morakotiae</i>	NRRL Y-48708	GCA 030564645.1	93.10%	93.00%	0.10%	1.10%	5.80%
<i>Candida multigemmis</i>	NRRL Y-17659	GCA 030572295.1	93.10%	93.00%	0.10%	0.70%	6.20%
<i>Candida neerlandica</i>	NRRL Y-27057	GCA 030557875.1	94.90%	94.20%	0.70%	0.30%	4.80%
<i>Candida nonsorbophila</i>	CBS 10862	GCA 030578515.1	94.00%	93.90%	0.10%	1.60%	4.40%
<i>Candida oceani</i>	2020i151	GCA 020281285.1	94.20%	94.10%	0.10%	0.90%	4.90%
<i>Candida oleophila</i>	NRRL Y-2317	GCA 030563865.1	95.20%	94.90%	0.30%	0.70%	4.10%
<i>Candida orthopsilosis</i>	Co 90-125	GCA 000315875.1	96.40%	96.40%	0.00%	0.30%	3.30%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida oxycetoniae</i>	CBS 10844	GCA 023343755.1	94.10%	94.10%	0.00%	0.40%	5.50%
<i>Candida palmioleophila</i>	NRRL Y-17323	GCA 030560805.1	96.30%	95.80%	0.50%	0.40%	3.30%
<i>Candida palmyrensis</i>	CBS 11546	GCA 030558275.1	93.90%	93.90%	0.00%	0.80%	5.30%
<i>Candida parablackwelliae</i>	CBS 15228	GCA 030585045.1	93.40%	90.20%	3.20%	0.50%	6.10%
<i>Candida parachauliodis</i>	CBS 13928	GCA 030565145.1	94.60%	94.60%	0.00%	0.70%	4.70%
<i>Candida parapsilosis</i>	ATCC 22019	GCA 015344875.1	94.90%	94.90%	0.00%	0.80%	4.30%
<i>Candida pseudoaaseri</i>	CBS 11170	GCA 030674785.1	94.60%	94.60%	0.00%	0.70%	4.70%
<i>Candida pseudocylindracea</i>	CBS 10854	GCA 030558265.1	82.30%	82.30%	0.00%	3.40%	14.30%
<i>Candida pseudofarinosa</i>	NCYC 386	GCA 030556505.1	95.90%	95.90%	0.00%	0.10%	4.00%
<i>Candida pseudoglebosa</i>	NRRL Y-17911	GCA 030705115.1	94.10%	94.10%	0.00%	0.30%	5.60%
<i>Candida pseudojiufengensis</i>	CBS 10847	GCA 024610245.1	92.10%	92.10%	0.00%	0.90%	7.00%
<i>Candida pseudoviswanathii</i>	CBS 13916	GCA 030565125.1	95.60%	95.50%	0.10%	0.30%	4.10%
<i>Candida psychrophila</i>	FYBW01	GCA 900186205.1	96.70%	96.60%	0.10%	0.40%	2.90%
<i>Candida railenensis</i>	CLIB 1423	GCA 935541525.1	96.30%	95.90%	0.40%	0.70%	3.00%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida saitoana</i>	NRRL Y-17316	GCA 030557765.1	89.70%	89.70%	0.00%	4.40%	5.90%
<i>Candida sakaeoensis</i>	CBS 12318	GCA 030569255.1	93.00%	92.90%	0.10%	1.70%	5.30%
<i>Candida sake</i>	NRRL Y-1622	GCA 030572495.1	96.80%	96.80%	0.00%	0.50%	2.70%
<i>Candida santamariae</i>	NRRL Y-6656	GCA 030578175.1	94.10%	93.80%	0.30%	0.10%	5.80%
<i>Candida sanyaensis</i>	CBS 12637	GCA 030562985.1	92.10%	85.50%	6.60%	2.90%	5.00%
<i>Candida schatavii</i>	NRRL Y-17078	GCA 003707405.1	95.20%	92.00%	3.20%	0.40%	4.40%
<i>Candida silvanorum</i>	NRRL Y-7782	GCA 030574095.1	96.10%	96.00%	0.10%	0.50%	3.40%
<i>Candida sinolaborantium</i>	LESF1467	GCA 039762375.1	91.40%	91.40%	0.00%	2.20%	6.40%
<i>Candida smagusa</i>	CBS 11430	GCA 030566775.1	94.60%	93.90%	0.70%	0.70%	4.70%
<i>Candida sojae</i>	GF41	GCA 001442715.1	76.40%	74.30%	2.10%	1.60%	22.00%
<i>Candida songkhlaensis</i>	NBRC 103214	GCA 030570975.1	93.90%	93.90%	0.00%	0.80%	5.30%
<i>Candida sophiae-reginae</i>	NRRL Y-17668	GCA 030564725.1	92.50%	92.20%	0.30%	1.80%	5.70%
<i>Candida</i> sp.	UFMG-CM- Y605	GCA 030705185.1	97.10%	97.10%	0.00%	0.30%	2.60%
<i>Candida</i> sp.	AC06	GCA 026724345.1	83.00%	20.70%	62.30%	5.10%	11.90%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida</i> sp.	LDI48194	GCA 001005365.1	82.70%	67.50%	15.20%	1.30%	16.00%
<i>Candida</i> sp.	LN1	GCA 019280635.1	96.00%	95.50%	0.50%	0.40%	3.60%
<i>Candida</i> sp.	yHKB357	GCA 030580355.1	84.30%	83.90%	0.40%	3.80%	11.90%
<i>Candida</i> sp.	gmt3-3-4	NMDC2030 1685 [#]	96.30%	96.30%	0.00%	0.30%	3.40%
<i>Candida</i> sp.	XZY238F3	NMDC2030 1686 [#]	96.00%	96.00%	0.00%	0.30%	3.70%
<i>Candida</i> sp.	Y128-05C	GCA 037042315.1	93.70%	17.30%	76.40%	2.00%	4.30%
<i>Candida</i> sp.	Y128-05E	GCA 037042355.1	92.50%	16.20%	76.30%	2.80%	4.70%
<i>Candida spencermartinsiae</i>	NRRL Y-48663	GCA 030582355.1	95.40%	95.30%	0.10%	0.70%	3.90%
<i>Candida sphagnicola</i>	CBS 11774	GCA 030569075.1	96.20%	96.20%	0.00%	0.50%	3.30%
<i>Candida subhashii</i>	CBS 10753	GCA 019202705.1	94.50%	94.10%	0.40%	1.20%	4.30%
<i>Candida tallmaniae</i>	CBS 8575	GCA 030569655.1	94.10%	94.10%	0.00%	0.40%	5.50%
<i>Candida tammaniensis</i>	NRRL Y-8257	GCA 003708705.1	93.30%	93.30%	0.00%	0.80%	5.90%
<i>Candida taylorii</i>	NRRL Y-27213	GCA 030583035.1	93.80%	93.50%	0.30%	0.70%	5.50%
<i>Candida tetrigidarum</i>	NRRL Y-48142	GCA 030557055.1	93.30%	88.40%	4.90%	1.70%	5.00%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida theae</i>	CBS 12239	GCA 024610275.1	94.30%	94.20%	0.10%	0.50%	5.20%
<i>Candida tibetensis</i>	CBS 10298	GCA 030570835.1	96.60%	96.60%	0.00%	0.30%	3.10%
<i>Candida tropicalis</i>	MYA-3404	GCA 017315405.1	94.40%	93.50%	0.90%	1.30%	4.30%
<i>Candida trypodendroni</i>	NRRL Y-6488	GCA 030572515.1	94.10%	94.10%	0.00%	0.90%	5.00%
<i>Candida vaughaniae</i>	CBS 8583	GCA 030569695.1	94.60%	94.60%	0.00%	1.10%	4.30%
<i>Candida verbasci</i>	CBS 12699	GCA 030569305.1	93.70%	93.70%	0.00%	0.70%	5.60%
<i>Candida viswanathii</i>	NRRL Y-6660	GCA 030566835.1	94.20%	93.70%	0.50%	0.50%	5.30%
<i>Candida wancherniae</i>	NRRL Y-48709	GCA 003708715.2	89.40%	89.40%	0.00%	1.80%	8.80%
<i>Candida xiaguanensis</i>	CBS 13923	GCA 030555925.1	93.80%	93.80%	0.00%	0.40%	5.80%
<i>Candida xylanilytica</i>	NBRC 106499	GCA 030563365.1	94.60%	84.20%	10.40%	1.10%	4.30%
<i>Candida zeylanoides</i>	NRRL Y-1774	GCA 030564465.1	89.50%	89.10%	0.40%	2.20%	8.30%
<i>Candidozyma auris</i>	CBS 10913	GCA 030581515.1	93.10%	93.00%	0.10%	0.80%	6.10%
<i>Candidozyma chanthaburiensis</i>	CBS 10926	GCA 030579055.1	91.30%	91.20%	0.10%	0.90%	7.80%
<i>Candidozyma duobushaemuli</i>	NRRL Y-17802	GCA 030575055.1	91.40%	91.30%	0.10%	1.20%	7.40%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candidozyma haemuli</i>	NRRL	GCA	93.10%	93.00%	0.10%	1.10%	5.80%
	Y-6693	030569475.1					
<i>Candidozyma heveicola</i>	NRRL	GCA	91.50%	91.20%	0.30%	0.90%	7.60%
	Y-48716	003708405.2					
<i>Candidozyma konsanensis</i>	CBS 12666	GCA	91.70%	91.60%	0.10%	0.80%	7.50%
		030563505.1					
<i>Candidozyma pseudohaemuli</i>	NRRL	GCA	91.40%	91.30%	0.10%	1.20%	7.40%
	Y-48733	030573385.1					
<i>Candidozyma ruelliae</i>	NRRL	GCA	89.40%	89.30%	0.10%	1.10%	9.50%
	Y-48703	030582895.1					
<i>Candidozyma vulturina</i>	CBS 14366	GCA	93.10%	93.00%	0.10%	0.90%	6.00%
		030585165.1					
<i>Cephaloascus albidus</i>	NRRL	GCA	98.40%	97.90%	0.50%	0.30%	1.30%
	Y-7343	030575015.1					
<i>Cephaloascus fragrans</i>	NRRL	GCA	98.90%	98.80%	0.10%	0.10%	1.00%
	Y-6742	003707825.3					
<i>Clavispora asparagi</i>	CBS 9770	GCA	92.30%	92.30%	0.00%	1.60%	6.10%
		030573135.1					
<i>Clavispora carvajalis</i>	NRRL	GCA	92.50%	92.50%	0.00%	1.20%	6.30%
	Y-48694	030581635.1					
<i>Clavispora fructus</i>	NRRL	GCA	91.30%	90.80%	0.50%	1.60%	7.10%
	Y-17072	003707795.2					
<i>Clavispora fructus</i>	NRRL	GCA	90.20%	90.20%	0.00%	1.50%	8.30%
	Y-17088	030557895.1					
<i>Clavispora lusitaniae</i>	NRRL	GCA	94.80%	94.30%	0.50%	1.10%	4.10%
	Y-11827	030449025.1					
<i>Clavispora opuntiae</i>	NRRL	GCA	94.70%	94.60%	0.10%	0.80%	4.50%
	Y-11820	030574075.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Clavispora phyllophila</i>	CBS 12671	GCA 030674715.1	92.10%	92.10%	0.00%	2.00%	5.90%
<i>Clavispora vitiphila</i>	CBS 12672	GCA 030557995.1	93.40%	93.40%	0.00%	1.10%	5.50%
<i>Danielia oregonensis</i>	NRRL Y-5850	GCA 003707785.3	95.50%	95.50%	0.00%	0.80%	3.70%
<i>Danielia reshetovae</i>	CBS 11556	GCA 030558395.1	94.30%	93.90%	0.40%	0.40%	5.30%
<i>Danielozyma ontarioensis</i>	NRRL YB-1246	GCA 003706395.2	97.10%	97.00%	0.10%	0.40%	2.50%
<i>Debaryomyces coudertii</i>	NRRL Y-7425	GCA 030564605.1	98.00%	97.90%	0.10%	0.10%	1.90%
<i>Debaryomyces fabryi</i>	NRRL Y-17914	GCA 003708665.2	98.30%	98.20%	0.10%	0.30%	1.40%
<i>Debaryomyces hansenii</i>	NRRL Y-7426	GCA 006942235.1	97.60%	97.50%	0.10%	0.30%	2.10%
<i>Debaryomyces maramus</i>	NRRL Y-2171	GCA 003708605.2	98.30%	98.20%	0.10%	0.00%	1.70%
<i>Debaryomyces nepalensis</i>	NRRL Y-7108	GCA 003708585.1	98.10%	97.80%	0.30%	0.30%	1.60%
<i>Debaryomyces prosopidis</i>	NRRL Y-27369	GCA 003708935.1	97.90%	91.00%	6.90%	0.30%	1.80%
<i>Debaryomyces robertsiae</i>	NRRL Y-6670	GCA 030566065.1	96.90%	96.80%	0.10%	0.30%	2.80%
<i>Debaryomyces singareniensis</i>	CBS 10405	GCA 030558045.1	91.00%	91.00%	0.00%	1.20%	7.80%
<i>Debaryomyces subglobosus</i>	NRRL Y-6666	GCA 003708965.1	98.30%	98.00%	0.30%	0.30%	1.40%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Debaryomyces udonii</i>	NRRL Y-17354	GCA 030556595.1	97.50%	97.40%	0.10%	0.50%	2.00%
<i>Diutina catenulata</i>	WY3-10-4	GCA 003285555.1	75.70%	75.70%	0.00%	4.50%	19.80%
<i>Diutina mesorugosa</i>	CBS 12656	GCA 030674695.1	85.00%	85.00%	0.00%	1.60%	13.40%
<i>Diutina neorugosa</i>	CBS 12627	GCA 030578555.1	88.40%	88.40%	0.00%	1.10%	10.50%
<i>Diutina pseudorugosa</i>	CBS 10433	GCA 030580175.1	85.20%	85.20%	0.00%	2.00%	12.80%
<i>Diutina ranongensis</i>	CBS 10861	GCA 030569815.1	89.20%	89.10%	0.10%	1.20%	9.60%
<i>Diutina rugosa</i>	CBS 613	GCA 008704595.1	92.10%	92.10%	0.00%	1.10%	6.80%
<i>Diutina scorzettiae</i>	NRRL Y-27665	GCA 030563345.1	90.70%	90.60%	0.10%	0.50%	8.80%
<i>Diutina siamensis</i>	CBS 13388	GCA 030580155.1	90.90%	90.60%	0.30%	0.70%	8.40%
<i>Gaillardinia entomophila</i>	NRRL Y-7783	GCA 030555945.1	94.30%	94.30%	0.00%	0.90%	4.80%
<i>Helеноzyma baotianmanensis</i>	CBS 11898	GCA 030556145.1	87.90%	87.90%	0.00%	2.50%	9.60%
<i>Helеноzyma melibiosica</i>	NRRL Y-17076	GCA 030563325.1	86.80%	86.80%	0.00%	3.30%	9.90%
<i>Helеноzyma rhizophorensis</i>	NRRL Y-48382	GCA 030573355.1	89.80%	89.80%	0.00%	1.30%	8.90%
<i>Hemisphaericaspora insectamans</i>	NRRL Y-7786	GCA 030578955.1	85.80%	85.10%	0.70%	4.20%	10.00%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Hemisphaericaspora nanyangensis</i>	CBS 13020	GCA 030557635.1	96.80%	96.70%	0.10%	0.30%	2.90%
<i>Hermanozyma aechmeae</i>	NRRL Y-48456	GCA 030583085.1	92.30%	92.30%	0.00%	0.90%	6.80%
<i>Hermanozyma ubatubensis</i>	NRRL Y-27812	GCA 030567085.1	90.80%	90.80%	0.00%	1.30%	7.90%
<i>Hyphopichia burtonii</i>	NRRL Y-1933	GCA 018343885.1	96.40%	96.30%	0.10%	0.30%	3.30%
<i>Hyphopichia buzzinii</i>	CBS 14300	GCA 030556945.1	96.00%	95.90%	0.10%	0.70%	3.30%
<i>Hyphopichia fennica</i>	NRRL Y-7505	GCA 030444945.1	97.30%	97.20%	0.10%	0.30%	2.40%
<i>Hyphopichia homilentoma</i>	JCM 1507	GCA 001599095.1	95.40%	95.30%	0.10%	0.50%	4.10%
<i>Hyphopichia khmerensis</i>	CBS 9784	GCA 030569195.1	96.30%	96.20%	0.10%	0.00%	3.70%
<i>Hyphopichia pseudoburtonii</i>	makgeolli 2	GCA 003856775.1	96.50%	96.40%	0.10%	0.40%	3.10%
<i>Hyphopichia wangnamkhiaoensis</i>	CBS 11695	GCA 030578475.1	97.30%	97.20%	0.10%	0.10%	2.60%
<i>Isabelozyma gotoi</i>	NRRL Y-27225	GCA 003708205.1	96.60%	96.60%	0.00%	0.30%	3.10%
<i>Isabelozyma heimii</i>	NRRL Y-7502	GCA 003706925.2	97.10%	97.00%	0.10%	0.40%	2.50%
<i>Isabelozyma pseudorhagii</i>	NRRL YB-2076	GCA 030449045.1	97.00%	97.00%	0.00%	0.40%	2.60%
<i>Isabelozyma rhagii</i>	NRRL Y-2594	GCA 003708185.2	96.80%	96.80%	0.00%	0.10%	3.10%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Kodamaea alishanica</i>	CBS 11429	GCA 030563745.1	94.80%	94.70%	0.10%	0.70%	4.50%
<i>Kodamaea anthophila</i>	UWOPS95-6 02.1	GCA 015708815.1	90.90%	90.90%	0.00%	1.70%	7.40%
<i>Kodamaea arcana</i>	NRRL Y-27712	GCA 030574295.1	94.10%	93.70%	0.40%	0.70%	5.20%
<i>Kodamaea derodonti</i>	NRRL Y-27711	GCA 030570035.1	94.70%	94.30%	0.40%	0.30%	5.00%
<i>Kodamaea fukazawae</i>	JCM 1641	GCA 030572255.1	90.60%	90.60%	0.00%	1.20%	8.20%
<i>Kodamaea fungicola</i>	JCM 10142	GCA 030560575.1	94.60%	94.10%	0.50%	1.10%	4.30%
<i>Kodamaea hsintzibuensis</i>	CBS 11427	GCA 030568835.1	95.50%	95.10%	0.40%	0.50%	4.00%
<i>Kodamaea jinghongensis</i>	CBS 14700	GCA 030556895.1	95.00%	95.00%	0.00%	0.50%	4.50%
<i>Kodamaea kakaduensis</i>	CBS 8611	GCA 030558435.1	92.90%	92.90%	0.00%	1.50%	5.60%
<i>Kodamaea kaohsiungensis</i>	CBS 11435	GCA 030558205.1	94.10%	93.70%	0.40%	0.70%	5.20%
<i>Kodamaea laetipori</i>	NRRL Y-27713	GCA 003705675.1	95.90%	95.60%	0.30%	0.90%	3.20%
<i>Kodamaea leandrae</i>	NRRL Y-27757	GCA 030564445.1	94.10%	94.10%	0.00%	1.20%	4.70%
<i>Kodamaea lidongshanica</i>	CBS 11426	GCA 030562865.1	95.00%	94.90%	0.10%	0.90%	4.10%
<i>Kodamaea neixiangensis</i>	CBS 14699	GCA 030565385.1	95.00%	95.00%	0.00%	0.80%	4.20%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Kodamaea nitidulidarum</i>	NRRL	GCA	94.60%	94.50%	0.10%	0.80%	4.60%
	Y-27353	030674215.1					
<i>Kodamaea ohmeri</i>	NRRL	GCA	95.30%	95.30%	0.00%	0.90%	3.80%
	Y-1932	003708155.1					
<i>Kodamaea plutei</i>	NRRL	GCA	94.60%	94.10%	0.50%	1.10%	4.30%
	Y-27715	030705055.1					
<i>Kodamaea restingae</i>	NRRL	GCA	93.90%	93.90%	0.00%	0.90%	5.20%
	Y-27358	003707425.3					
<i>Kodamaea sagamina</i>	JCM 10144	GCA	93.80%	93.50%	0.30%	0.80%	5.40%
		030556545.1					
<i>Kodamaea sp.</i>	yHQL449	GCA	89.80%	89.70%	0.10%	0.80%	9.40%
		030582715.1					
<i>Kodamaea sp.</i>	yHQL451	GCA	96.40%	96.40%	0.00%	0.30%	3.30%
		030578635.1					
<i>Kodamaea suecica</i>	NRRL	GCA	93.30%	93.00%	0.30%	0.80%	5.90%
	Y-12943	030558315.1					
<i>Kurtzmaniella cleridarum</i>	NRRL	GCA	94.90%	94.90%	0.00%	0.70%	4.40%
	Y-48386	003707135.1					
<i>Kurtzmaniella fragi</i>	NRRL	GCA	95.10%	95.10%	0.00%	0.70%	4.20%
	Y-17910	003706895.1					
<i>Kurtzmaniella natalensis</i>	NRRL	GCA	93.50%	93.40%	0.10%	0.40%	6.10%
	Y-17680	030574355.1					
<i>Kurtzmaniella quercitrusa</i>	NRRL	GCA	94.30%	94.20%	0.10%	0.50%	5.20%
	Y-5392	030570095.1					
<i>Kurtzmaniella quercitrusa</i> var. <i>comoensis</i>	1112	GCA	94.90%	94.20%	0.70%	0.40%	4.70%
		020280125.1					
<i>Kurtzmaniella quercitrusa</i> var. <i>filamentosus</i>	1120	GCA	94.20%	94.20%	0.00%	0.90%	4.90%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Limnomyces cylindracea</i>	NRRL	GCA	85.10%	84.80%	0.30%	3.00%	11.90%
	Y-17506	030572215.1					
<i>Lodderomyces beijingensis</i>	CBS 14171	GCA	93.80%	93.80%	0.00%	0.40%	5.80%
		030565245.1					
<i>Lodderomyces elongisporus</i>	NRRL	GCA	88.00%	88.00%	0.00%	1.50%	10.50%
	YB-4239	030557865.1					
<i>Metschnikowia aberdeeniae</i>	SUB	GCA	92.50%	92.50%	0.00%	0.80%	6.70%
	05-213.1	002370615.1					
<i>Metschnikowia agaves</i>	UWOPS	GCA	93.80%	93.80%	0.00%	0.80%	5.40%
	92-210.1	008065255.1					
<i>Metschnikowia andauensis</i>	CBS 10809	GCA	73.80%	72.60%	1.20%	10.00%	16.20%
		030568715.1					
<i>Metschnikowia anglica</i>	CBS 15342	GCA	95.30%	95.30%	0.00%	0.40%	4.30%
		030573055.1					
<i>Metschnikowia arizonensis</i>	UWOPS	GCA	93.70%	93.70%	0.00%	0.70%	5.60%
	99-103.4	002370875.1					
<i>Metschnikowia australis</i>	W7-5	GCA	90.50%	90.50%	0.00%	1.20%	8.30%
		019285895.1					
<i>Metschnikowia baotianmanensis</i>	CBS 15869	GCA	90.70%	75.10%	15.60%	2.40%	6.90%
		030565705.1					
<i>Metschnikowia bicuspidata</i> var. <i>bicuspidata</i>	NRRL	GCA	79.00%	79.00%	0.00%	5.10%	15.90%
	YB-4993	030570515.1					
<i>Metschnikowia bicuspidata</i> var. <i>californica</i>	NRRL	GCA	78.00%	78.00%	0.00%	4.50%	17.50%
	Y-17916	030555835.1					
<i>Metschnikowia bicuspidata</i> var. <i>chathamia</i>	NRRL	GCA	81.40%	81.40%	0.00%	5.00%	13.60%
	Y-17917	030556055.1					
<i>Metschnikowia borealis</i>	SUB	GCA	91.20%	91.20%	0.00%	2.80%	6.00%
	99-207.1	002374385.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Metschnikowia bowlesiae</i>	UWOPS 04-243x5	GCA 002374615.1	90.70%	90.40%	0.30%	1.80%	7.50%
<i>Metschnikowia caudata</i>	EBD-CdVSA 57-2	GCA 008065175.1	86.50%	86.50%	0.00%	2.40%	11.10%
<i>Metschnikowia cerradonensis</i>	UFMG 03-T67.1	GCA 002370635.1	94.30%	94.30%	0.00%	0.50%	5.20%
<i>Metschnikowia chrysomelidarum</i>	NRRL Y-27749	GCA 030582795.1	92.30%	91.80%	0.50%	1.20%	6.50%
<i>Metschnikowia chrysoperlae</i>	NRRL Y-27615	GCA 030674525.1	83.00%	83.00%	0.00%	6.50%	10.50%
<i>Metschnikowia colocasiae</i>	UWOPS 03-202.1	GCA 002370175.1	92.50%	92.50%	0.00%	1.20%	6.30%
<i>Metschnikowia continentalis</i>	UWOPS 95-402.1	GCA 002370835.1	93.40%	93.30%	0.10%	0.50%	6.10%
<i>Metschnikowia corniflorae</i>	NRRL Y-27750	GCA 030581935.1	88.50%	87.20%	1.30%	3.20%	8.30%
<i>Metschnikowia dekortorum</i>	UWOPS 03-172.2	GCA 002370735.1	91.80%	91.70%	0.10%	1.50%	6.70%
<i>Metschnikowia drakensbergensis</i>	EBD-CdVSA 10-2A	GCA 002370475.1	92.90%	92.90%	0.00%	1.10%	6.00%
<i>Metschnikowia drosophilae</i>	UWOPS83-1 143.1	GCA 002893705.1	92.00%	92.00%	0.00%	1.10%	6.90%
<i>Metschnikowia fructicola</i>	NRRL Y-27328	GCA 030556695.1	84.20%	65.30%	18.90%	4.20%	11.60%
<i>Metschnikowia gelsemii</i>	NRRL Y-48212	GCA 030561745.1	94.00%	93.70%	0.30%	0.70%	5.30%
<i>Metschnikowia gruessii</i>	NRRL Y-17809	GCA 030563445.1	91.60%	91.60%	0.00%	2.90%	5.50%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Metschnikowia hamakuensis</i>	UWOPS 04-199.1	GCA 002370815.1	92.00%	92.00%	0.00%	0.90%	7.10%
<i>Metschnikowia hawaiiiana</i>	NRRL Y-27473	GCA 003708615.1	93.00%	93.00%	0.00%	0.80%	6.20%
<i>Metschnikowia hawaiiensis</i>	UWOPS 87-2203.2	GCA 002370325.1	90.60%	90.60%	0.00%	1.10%	8.30%
<i>Metschnikowia henanensis</i>	CBS 12677	GCA 030674755.1	83.70%	66.40%	17.30%	6.30%	10.00%
<i>Metschnikowia hibisci</i>	UWOPS 95-797.2	GCA 002374725.1	93.90%	93.90%	0.00%	0.30%	5.80%
<i>Metschnikowia ipomoeae</i>	NRRL Y-27455	GCA 030566495.1	92.70%	92.60%	0.10%	0.90%	6.40%
<i>Metschnikowia kamakouana</i>	UWOPS 04-112.5	GCA 002374535.1	93.00%	93.00%	0.00%	1.10%	5.90%
<i>Metschnikowia kipukae</i>	UWOPS 00-669.2	GCA 002370135.1	93.70%	93.70%	0.00%	0.40%	5.90%
<i>Metschnikowia kofuensis</i>	NRRL Y-27226	GCA 030564885.1	89.00%	79.60%	9.40%	3.60%	7.40%
<i>Metschnikowia koreensis</i>	CBS 8854	GCA 030569435.1	93.40%	93.40%	0.00%	1.10%	5.50%
<i>Metschnikowia krissii</i>	NRRL Y-5389	GCA 030561945.1	91.30%	91.30%	0.00%	1.30%	7.40%
<i>Metschnikowia kunwiensis</i>	NRRL Y-48698	GCA 030583255.1	86.10%	86.00%	0.10%	2.10%	11.80%
<i>Metschnikowia lachancei</i>	NRRL Y-27242	GCA 030572615.1	92.30%	88.50%	3.80%	2.20%	5.50%
<i>Metschnikowia laotica</i>	CBS 12961	GCA 030563125.1	85.40%	85.40%	0.00%	5.00%	9.60%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Metschnikowia leonuri</i>	CBS 15341	GCA 030573075.1	52.50%	37.10%	15.40%	21.90%	25.60%
<i>Metschnikowia lochheadii</i>	UWOPS 99-661.1	GCA 002370915.1	94.10%	94.10%	0.00%	0.70%	5.20%
<i>Metschnikowia lopburiensis</i>	CBS 12574	GCA 030563105.1	92.30%	92.20%	0.10%	0.90%	6.80%
<i>Metschnikowia lunata</i>	NRRL Y-7131	GCA 030583235.1	94.30%	94.30%	0.00%	0.90%	4.80%
<i>Metschnikowia matae</i>	NRRL Y-63736	GCA 030674615.1	92.80%	92.10%	0.70%	1.20%	6.00%
<i>Metschnikowia matae var. maris</i>	UFMG-CM- Y397	GCA 002370695.1	93.70%	93.70%	0.00%	0.90%	5.40%
<i>Metschnikowia matae var. matae</i>	UFMG-CM- Y391	GCA 002370655.1	93.70%	93.70%	0.00%	0.90%	5.40%
<i>Metschnikowia mauinuiana</i>	UWOPS 04-190.1	GCA 002374555.1	92.00%	92.00%	0.00%	1.10%	6.90%
<i>Metschnikowia noctiluminum</i>	NRRL Y-27753	GCA 030578735.1	93.30%	92.10%	1.20%	0.40%	6.30%
<i>Metschnikowia orientalis</i>	UWOPS99-7 45.6	GCA 002893665.1	91.70%	91.70%	0.00%	0.90%	7.40%
<i>Metschnikowia peoriensis</i>	CBS 15345	GCA 030573015.1	92.90%	82.20%	10.70%	2.00%	5.10%
<i>Metschnikowia persimmonesis</i>	KIOM G15050	GCA 014905795.1	81.00%	76.00%	5.00%	7.00%	12.00%
<i>Metschnikowia picachoensis</i>	NRRL Y-27607	GCA 030556465.1	92.80%	89.80%	3.00%	0.80%	6.40%
<i>Metschnikowia pimensis</i>	NRRL Y-27619	GCA 030556455.1	92.60%	92.20%	0.40%	1.50%	5.90%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Metschnikowia proteae</i>	EBD-T1Y1T	GCA 002370515.1	93.10%	93.10%	0.00%	1.10%	5.80%
<i>Metschnikowia pulcherrima</i>	NRRL Y-7111	GCA 030583425.1	92.50%	92.50%	0.00%	1.30%	6.20%
<i>Metschnikowia reukaufii</i>	MR1 2	GCA 003401635.1	90.00%	90.00%	0.00%	1.50%	8.50%
<i>Metschnikowia rubicola</i>	CBS 15344	GCA 030557065.1	88.60%	83.50%	5.10%	2.10%	9.30%
<i>Metschnikowia santaceciliae</i>	UWOPS 01-517a1	GCA 002374485.1	93.60%	93.50%	0.10%	0.70%	5.70%
<i>Metschnikowia shanxiensis</i>	NRRL Y-48710	GCA 030578695.1	88.10%	78.20%	9.90%	4.10%	7.80%
<i>Metschnikowia shivogae</i>	UWOPS 04-310.1	GCA 002374645.1	92.60%	92.60%	0.00%	0.70%	6.70%
<i>Metschnikowia similis</i>	UWOPS 03-133.4	GCA 002370765.1	90.50%	90.40%	0.10%	2.00%	7.50%
<i>Metschnikowia sinensis</i>	NRRL Y-48711	GCA 030583125.1	91.60%	91.20%	0.40%	1.60%	6.80%
<i>Metschnikowia sp.</i>	yHJM9	GCA 030444895.1	92.90%	92.90%	0.00%	0.80%	6.30%
<i>Metschnikowia sp.</i>	yHQL527	GCA 030578455.1	94.10%	94.10%	0.00%	0.90%	5.00%
<i>Metschnikowia sp.</i>	yHKB443	GCA 030444905.1	79.80%	79.40%	0.40%	2.10%	18.10%
<i>Metschnikowia torresii</i>	CBS 5152	GCA 002893725.1	92.10%	92.00%	0.10%	1.10%	6.80%
<i>Metschnikowia vanudenii</i>	NRRL Y-17036	GCA 030583145.1	95.00%	95.00%	0.00%	0.40%	4.60%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Metschnikowia viticola</i>	NRRL	GCA	85.10%	85.00%	0.10%	5.50%	9.40%
	Y-48693	030556725.1					
<i>Metschnikowia zizyphicola</i>	NRRL	GCA	62.70%	51.50%	11.20%	19.00%	18.30%
	Y-48712	030578815.1					
<i>Metschnikowia zobellii</i>	CALNDW01	GCA 939531315.1	91.20%	90.80%	0.40%	0.70%	8.10%
<i>Meyerozyma athensensis</i>	NRRL	GCA	95.60%	95.60%	0.00%	0.70%	3.70%
	Y-27644	003705555.1					
<i>Meyerozyma caribbica</i>	NRRL	GCA	95.40%	95.40%	0.00%	1.20%	3.40%
	Y-27274	003707125.2					
<i>Meyerozyma carpophila</i>	JCM 9396	GCA 001599235.1	95.00%	95.00%	0.00%	1.10%	3.90%
<i>Meyerozyma elateridarum</i>	NRRL	GCA	95.40%	95.40%	0.00%	0.30%	4.30%
	Y-27647	030574335.1					
<i>Meyerozyma guilliermondii</i>	ATCC 6260	GCA 006942155.1	96.00%	96.00%	0.00%	0.40%	3.60%
<i>Meyerozyma smithsonii</i>	NRRL	GCA	94.70%	94.70%	0.00%	0.90%	4.40%
	Y-27642	030570235.1					
<i>Millerozyma acaciae</i>	JCM 10732	GCA 001600675.1	97.10%	97.00%	0.10%	0.10%	2.80%
<i>Millerozyma farinosa</i>	NRRL	GCA	96.40%	96.40%	0.00%	0.10%	3.50%
	Y-7553	030557775.1					
<i>Millerozyma miso</i>	CBS 2004	GCA 030569015.1	95.90%	95.90%	0.00%	0.30%	3.80%
<i>Nematodospora anomalae</i>	CBS 13927	GCA 030572795.1	95.90%	95.80%	0.10%	0.10%	4.00%
<i>Nematodospora valgi</i>	CBS 12562	GCA 030565165.1	95.90%	95.80%	0.10%	0.10%	4.00%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Osmozyma mogii</i>	NRRL	GCA	90.20%	90.20%	0.00%	1.60%	8.20%
	Y-17032	030573315.1					
<i>Osmozyma tolerans</i>	CBS 8613	GCA	92.10%	92.00%	0.10%	0.80%	7.10%
		030582955.1					
<i>Priceomyces carsonii</i>	NRRL	GCA	97.20%	97.10%	0.10%	0.10%	2.70%
	YB-4275	003709225.2					
<i>Priceomyces castillae</i>	NRRL	GCA	96.20%	95.30%	0.90%	0.70%	3.10%
	Y-7501	003706855.2					
<i>Priceomyces fermenticarens</i>	NRRL	GCA	95.60%	95.60%	0.00%	0.30%	4.10%
	Y-17321	030574455.1					
<i>Priceomyces haplophilus</i>	JCM 1635	GCA	92.10%	92.00%	0.10%	1.20%	6.70%
		001599895.1					
<i>Priceomyces medius</i>	NRRL	GCA	95.90%	95.90%	0.00%	0.70%	3.40%
	Y-7122	003705335.1					
<i>Priceomyces melissophilus</i>	NRRL	GCA	95.90%	95.90%	0.00%	0.30%	3.80%
	Y-7585	030574515.1					
<i>Scheffersomyces coipomensis</i>	NRRL	GCA	95.80%	95.80%	0.00%	0.30%	3.90%
	Y-17651	030578755.1					
<i>Scheffersomyces cryptocercus</i>	NRRL	GCA	97.20%	97.10%	0.10%	0.10%	2.70%
	Y-48824	030555905.1					
<i>Scheffersomyces ergatensis</i>	NRRL	GCA	95.70%	95.40%	0.30%	0.40%	3.90%
	Y-17652	030575095.1					
<i>Scheffersomyces goslingicus</i>	CBS 11433	GCA	95.10%	95.10%	0.00%	0.50%	4.40%
		030463055.1					
<i>Scheffersomyces illinoensis</i>	NRRL	GCA	95.40%	95.30%	0.10%	0.50%	4.10%
	Y-48827	030572695.1					
<i>Scheffersomyces insectosa</i>	NRRL	GCA	96.50%	96.40%	0.10%	0.40%	3.10%
	Y-12854	030572575.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Scheffersomyces lignicola</i>	CBS 10612	GCA 030578435.1	96.40%	96.30%	0.10%	0.40%	3.20%
<i>Scheffersomyces lignosus</i>	JCM 9837	GCA 001599395.1	96.70%	96.60%	0.10%	0.10%	3.20%
<i>Scheffersomyces parashehatae</i>	CBS 12535	GCA 030571865.1	96.70%	96.60%	0.10%	0.30%	3.00%
<i>Scheffersomyces quercinus</i>	NRRL Y-48825	GCA 030556775.1	96.70%	96.60%	0.10%	0.30%	3.00%
<i>Scheffersomyces segobiensis</i>	DSM 27193	GCA 018489445.1	96.00%	95.90%	0.10%	0.10%	3.90%
<i>Scheffersomyces shehatae</i>	NBRC 1983	GCA 002118155.1	96.50%	96.40%	0.10%	0.40%	3.10%
<i>Scheffersomyces spartinae</i>	ARV 011	GCA 019049425.1	93.90%	93.90%	0.00%	0.70%	5.40%
<i>Scheffersomyces stambukii</i>	UFMG-CM- Y427	GCA 002245345.1	94.20%	94.10%	0.10%	0.90%	4.90%
<i>Scheffersomyces stipitis</i>	NRRL Y-7124	GCA 016859295.1	97.10%	95.90%	1.20%	0.00%	2.90%
<i>Scheffersomyces titanus</i>	CBS 13926	GCA 030565185.1	96.00%	95.90%	0.10%	0.00%	4.00%
<i>Scheffersomyces virginianus</i>	NRRL Y-48822	GCA 030565005.1	96.70%	96.60%	0.10%	0.30%	3.00%
<i>Scheffersomyces xylosifermentans</i>	CBS 12540	GCA 030571855.1	95.00%	94.90%	0.10%	0.00%	5.00%
<i>Schwanniomyces capriottii</i>	NRRL Y-7423	GCA 030674585.1	97.30%	97.20%	0.10%	0.40%	2.30%
<i>Schwanniomyces etchellsii</i>	NRRL Y-7121	GCA 030583275.1	94.90%	94.20%	0.70%	0.50%	4.60%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Schwanniomyces occidentalis</i> var. <i>occidentalis</i>	NRRL Y-10	GCA 030579795.1	97.80%	97.50%	0.30%	0.10%	2.10%
<i>Schwanniomyces occidentalis</i> var. <i>persoonii</i>	NRRL Y-7400	GCA 030556115.1	97.70%	97.60%	0.10%	0.30%	2.00%
<i>Schwanniomyces polymorphus</i> var. <i>africanus</i>	CBS 6741	GCA 030563145.1	97.30%	97.00%	0.30%	0.10%	2.60%
<i>Schwanniomyces polymorphus</i> var. <i>polymorphus</i>	NRRL Y-2022	GCA 030463025.1	96.50%	96.00%	0.50%	0.50%	3.00%
<i>Schwanniomyces pseudopolymorphus</i>	NRRL YB-4229	GCA 030583345.1	97.50%	97.20%	0.30%	0.10%	2.40%
<i>Schwanniomyces</i> sp.	yHMH407	GCA 030571215.1	96.20%	96.20%	0.00%	0.50%	3.30%
<i>Schwanniomyces</i> sp.	NRRL Y-7430	GCA 030462985.1	95.90%	95.40%	0.50%	1.10%	3.00%
<i>Schwanniomyces vanriijiae</i> var. <i>vanriijiae</i>	NRRL Y-7535	GCA 030556805.1	96.90%	96.60%	0.30%	0.40%	2.70%
<i>Schwanniomyces vanriijiae</i> var. <i>yarrowii</i>	NRRL Y-11714	GCA 030575115.1	96.40%	96.30%	0.10%	0.40%	3.20%
<i>Schwanniomyces yamadae</i>	NRRL Y-48658	GCA 030565025.1	96.80%	96.70%	0.10%	0.10%	3.10%
<i>Souciertia sequanensis</i>	NRRL Y-17682	GCA 030557975.1	94.70%	94.70%	0.00%	0.10%	5.20%
<i>Spathaspora arborariae</i>	UFMG-HM1 9.1AT	GCA 000497715.1	95.10%	95.10%	0.00%	0.40%	4.50%
<i>Spathaspora boniae</i>	UFMG-CM- Y306	GCA 002094185.1	95.40%	95.40%	0.00%	0.10%	4.50%
<i>Spathaspora girioi</i>	UFMG-CM- Y302	GCA 001657455.1	94.80%	94.50%	0.30%	0.80%	4.40%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Spathaspora gorwiae</i>	UFMG-CM-Y312	GCA 001655765.1	87.90%	86.70%	1.20%	4.70%	7.40%
<i>Spathaspora hagerdaliae</i>	UFMG-CM-Y303	GCA 001655755.1	94.40%	93.30%	1.10%	1.60%	4.00%
<i>Spathaspora jeffriesii</i>	NRRL Y-27738	GCA 030705235.1	73.70%	62.00%	11.70%	13.90%	12.40%
<i>Spathaspora passalidarum</i>	NRRL Y-27907	GCA 013620965.1	96.40%	96.30%	0.10%	0.10%	3.50%
<i>Spathaspora xylofermentans</i>	UFMG-HMD 23.3	GCA 002105455.1	96.30%	95.90%	0.40%	0.80%	2.90%
<i>Suhyomyces ambrosiae</i>	NRRL YB-1316	GCA 030568575.1	93.50%	93.50%	0.00%	0.30%	6.20%
<i>Suhyomyces anneliseae</i>	NRRL Y-27563	GCA 030568535.1	96.60%	96.60%	0.00%	0.50%	2.90%
<i>Suhyomyces atakaporum</i>	NRRL Y-27570	GCA 030561405.1	97.00%	97.00%	0.00%	0.30%	2.70%
<i>Suhyomyces bokatorum</i>	NRRL Y-27571	GCA 030568615.1	93.10%	93.10%	0.00%	1.20%	5.70%
<i>Suhyomyces bolitotheri</i>	NRRL Y-27587	GCA 030568555.1	96.60%	96.60%	0.00%	0.50%	2.90%
<i>Suhyomyces bribrorum</i>	NRRL Y-27572	GCA 030561385.1	96.60%	96.60%	0.00%	0.30%	3.10%
<i>Suhyomyces canberraensis</i>	NRRL YB-2417	GCA 003706525.1	96.50%	96.40%	0.10%	0.40%	3.10%
<i>Suhyomyces chickasaworum</i>	NRRL Y-27566	GCA 030568495.1	94.50%	94.50%	0.00%	0.80%	4.70%
<i>Suhyomyces choctaworum</i>	NRRL Y-27584	GCA 030568475.1	96.40%	96.40%	0.00%	0.00%	3.60%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Suhomyces coccinellae</i>	CBS 14298	GCA 030565345.1	94.70%	94.70%	0.00%	0.70%	4.60%
<i>Suhomyces emberorum</i>	NRRL Y-27606	GCA 003707835.2	96.20%	96.20%	0.00%	0.40%	3.40%
<i>Suhomyces faveliae</i>	CBS 14299	GCA 030585145.1	97.10%	97.00%	0.10%	0.30%	2.60%
<i>Suhomyces guaymorum</i>	NRRL Y-27568	GCA 030568515.1	95.30%	95.30%	0.00%	0.80%	3.90%
<i>Suhomyces kilbournensis</i>	NRRL Y-17864	GCA 030563685.1	96.40%	96.40%	0.00%	0.40%	3.20%
<i>Suhomyces kunorum</i>	NRRL Y-27580	GCA 030561465.1	94.10%	94.10%	0.00%	0.50%	5.40%
<i>Suhomyces maxii</i>	NRRL Y-27588	GCA 030574995.1	96.30%	96.30%	0.00%	0.40%	3.30%
<i>Suhomyces panamericanus</i>	NRRL Y-27567	GCA 030582475.1	91.00%	91.00%	0.00%	1.20%	7.80%
<i>Suhomyces prunicola</i>	NRRL YB-869	GCA 030568655.1	96.30%	96.30%	0.00%	0.40%	3.30%
<i>Suhomyces pyralidae</i>	NRRL Y-27085	GCA 003706505.2	96.00%	96.00%	0.00%	0.40%	3.60%
<i>Suhomyces sp.</i>	yHKS641	GCA 030705105.1	96.50%	96.40%	0.10%	0.40%	3.10%
<i>Suhomyces sp.</i>	yHMH580	GCA 030580235.1	96.80%	96.80%	0.00%	0.30%	2.90%
<i>Suhomyces sp.</i>	yHQL142	GCA 030582675.1	96.50%	96.40%	0.10%	0.00%	3.50%
<i>Suhomyces taliae</i>	NRRL Y-27589	GCA 030572155.1	96.70%	96.70%	0.00%	0.50%	2.80%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Suhomyces tanzawaensis</i>	NRRL	GCA	97.10%	97.00%	0.10%	0.00%	2.90%
	Y-17324	001661415.1					
<i>Suhomyces terraborum</i>	NRRL	GCA	96.40%	96.40%	0.00%	0.40%	3.20%
	Y-27573	030582495.1					
<i>Suhomyces vadensis</i>	NRRL	GCA	93.90%	93.90%	0.00%	0.80%	5.30%
	Y-27778	030575035.1					
<i>Suhomyces wounanorum</i>	NRRL	GCA	96.60%	96.60%	0.00%	0.50%	2.90%
	Y-27574	030568695.1					
<i>Suhomyces xylopsoci</i>	NRRL	GCA	96.20%	96.20%	0.00%	0.40%	3.40%
	Y-27066	030568675.1					
<i>Suhomyces yuchorum</i>	NRRL	GCA	96.70%	96.70%	0.00%	0.50%	2.80%
	Y-27569	030571845.1					
<i>Sungouiella berkhoutiae</i>	CBS 11722	GCA	94.10%	94.10%	0.00%	0.70%	5.20%
		030578995.1					
<i>Sungouiella blattae</i>	NRRL	GCA	80.70%	80.70%	0.00%	1.50%	17.80%
	Y-27698	003706955.3					
<i>Sungouiella dosseyi</i>	NRRL	GCA	95.10%	95.10%	0.00%	0.90%	4.00%
	Y-27950	030573325.1					
<i>Sungouiella ecuadorensis</i>	CBS 12653	GCA	91.40%	91.40%	0.00%	1.60%	7.00%
		030579155.1					
<i>Sungouiella ezoensis</i>	CBS 11753	GCA	94.10%	94.10%	0.00%	0.90%	5.00%
		030569115.1					
<i>Sungouiella floscolorum</i>	NRRL	GCA	95.60%	95.60%	0.00%	0.70%	3.70%
	Y-48731	030568875.1					
<i>Sungouiella intermedia</i>	NRRL Y-981	GCA	95.30%	95.30%	0.00%	0.50%	4.20%
		030575135.1					
<i>Sungouiella inulinophila</i>	CBS 11725	GCA	94.10%	94.10%	0.00%	0.70%	5.20%
		030562885.1					

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Sungouiella middelhoveniana</i>	CBS 12306	GCA 030557965.1	95.30%	95.30%	0.00%	0.50%	4.20%
<i>Sungouiella pseudofloscolorum</i>	CBS 8584	GCA 030674735.1	94.20%	94.20%	0.00%	0.90%	4.90%
<i>Sungouiella pseudointermedia</i>	NRRL Y-10939	GCA 030557285.1	95.40%	95.40%	0.00%	0.50%	4.10%
<i>Sungouiella sharkensis</i>	NRRL Y-48380	GCA 030567015.1	96.30%	96.30%	0.00%	0.80%	2.90%
<i>Sungouiella suratensis</i>	CBS 10928	GCA 030566815.1	91.00%	91.00%	0.00%	1.10%	7.90%
<i>Sungouiella thailandica</i>	CBS 10610	GCA 030563845.1	92.20%	92.10%	0.10%	2.10%	5.70%
<i>Sungouiella tsuchiyae</i>	NRRL Y-17840	GCA 030566995.1	94.10%	94.10%	0.00%	0.70%	5.20%
<i>Tanozyma kutaoensis</i>	CBS 11388	GCA 030562905.1	83.10%	83.10%	0.00%	3.70%	13.20%
<i>Teunomyces aglyptinius</i>	NRRL Y-27935	GCA 030581575.1	94.90%	94.90%	0.00%	0.70%	4.40%
<i>Teunomyces atbi</i>	NRRL Y-27651	GCA 030574975.1	95.00%	95.00%	0.00%	0.90%	4.10%
<i>Teunomyces barrocoloradensis</i>	NRRL Y-27934	GCA 030568385.1	95.50%	95.50%	0.00%	0.70%	3.80%
<i>Teunomyces cretensis</i>	NRRL Y-27777	GCA 003706575.1	95.50%	95.50%	0.00%	0.50%	4.00%
<i>Teunomyces funiuensis</i>	CBS 13911	GCA 030558095.1	95.00%	95.00%	0.00%	0.30%	4.70%
<i>Teunomyces gatunensis</i>	NRRL Y-48064	GCA 003706565.2	95.40%	95.40%	0.00%	0.30%	4.30%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Teunomyces kruisii</i>	NRRL Y-17087	GCA 003706535.1	95.60%	86.00%	9.60%	0.30%	4.10%
<i>Teunomyces lycoperdinae</i>	NRRL Y-27658	GCA 030574955.1	94.60%	94.60%	0.00%	0.70%	4.70%
<i>Teunomyces pallodes</i>	NRRL Y-27653	GCA 030556435.1	95.10%	95.00%	0.10%	0.50%	4.40%
<i>Teunomyces panamensis</i>	NRRL Y-27657	GCA 030564025.1	94.70%	93.50%	1.20%	0.50%	4.80%
<i>Teunomyces stri</i>	NRRL Y-48063	GCA 030563165.1	95.40%	95.40%	0.00%	0.30%	4.30%
<i>Teunomyces tritomae</i>	NRRL Y-27650	GCA 030568455.1	94.90%	94.90%	0.00%	0.40%	4.70%
<i>Wickerhamia fluorescens</i>	NRRL YB-4819	GCA 030579855.1	95.40%	95.10%	0.30%	0.70%	3.90%
<i>Wilhelminamyces savonicus</i>	NRRL Y-17077	GCA 030570115.1	96.80%	96.70%	0.10%	0.40%	2.80%
<i>Wilhelminamyces tanticharoeniae</i>	CBS 11574	GCA 030558325.1	94.70%	94.60%	0.10%	0.90%	4.40%
<i>Yamadazyma akitaensis</i>	NRRL Y-7904	GCA 030581475.1	94.90%	94.90%	0.00%	0.50%	4.60%
<i>Yamadazyma dushanensis</i>	CBS 13914	GCA 030571835.1	94.30%	94.30%	0.00%	0.80%	4.90%
<i>Yamadazyma endophytica</i>	CBS 14163	GCA 030571075.1	95.30%	95.30%	0.00%	0.40%	4.30%
<i>Yamadazyma epiphylla</i>	CBS 13384	GCA 030571925.1	92.30%	92.20%	0.10%	1.30%	6.40%
<i>Yamadazyma insecticola</i>	CBS 13382	GCA 030571995.1	89.70%	89.70%	0.00%	1.70%	8.60%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Yamadazyma kitorensis</i>	JCM 31005	GCA 030572015.1	92.00%	92.00%	0.00%	1.60%	6.40%
<i>Yamadazyma laniorum</i>	yHMH7	GCA 002109505.1	95.00%	95.00%	0.00%	0.70%	4.30%
<i>Yamadazyma mexicana</i>	NRRL Y-11818	GCA 030569415.1	94.70%	94.70%	0.00%	0.70%	4.60%
<i>Yamadazyma nakazawae</i>	NRRL Y-7903	GCA 003706715.1	94.60%	94.60%	0.00%	0.80%	4.60%
<i>Yamadazyma olivae</i>	CBS 11171	GCA 030571975.1	93.80%	93.80%	0.00%	0.90%	5.30%
<i>Yamadazyma paraphyllophila</i>	CBS 9928	GCA 030563605.1	95.00%	94.90%	0.10%	0.40%	4.60%
<i>Yamadazyma philogaea</i>	NRRL Y-7813	GCA 003706995.2	93.80%	93.80%	0.00%	0.50%	5.70%
<i>Yamadazyma phyllophila</i>	CBS 12572	GCA 030571955.1	94.70%	94.60%	0.10%	0.70%	4.60%
<i>Yamadazyma scolyti</i>	NRRL Y-5512	GCA 003707025.1	92.70%	92.70%	0.00%	1.10%	6.20%
<i>Yamadazyma siamensis</i>	CBS 12573	GCA 030581535.1	93.60%	93.50%	0.10%	1.10%	5.30%
<i>Yamadazyma sp.</i>	yHKB15	GCA 030555745.1	94.50%	94.50%	0.00%	1.10%	4.40%
<i>Yamadazyma sp.</i>	yHKS699	GCA 030580295.1	94.60%	94.60%	0.00%	0.90%	4.50%
<i>Yamadazyma sp.</i>	yHMH393	GCA 030580255.1	92.10%	90.10%	2.00%	0.30%	7.60%
<i>Yamadazyma sp.</i>	yHMH685	GCA 030571055.1	94.70%	94.70%	0.00%	0.80%	4.50%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Yamadazyma takamatsuzukensis</i>	NBRC 104391	GCA 030572035.1	94.40%	94.30%	0.10%	0.90%	4.70%
<i>Yamadazyma tenuis</i>	ATCC 10573	GCA 029203305.1	94.70%	94.60%	0.10%	0.50%	4.80%
<i>Yamadazyma triangularis</i>	NRRL Y-5714	GCA 030573955.1	94.40%	10.60%	83.80%	0.70%	4.90%
<i>Yamadazyma tumulicola</i>	NBRC 104392	GCA 030578535.1	93.40%	93.40%	0.00%	0.50%	6.10%
<i>Yamadazyma ubonensis</i>	CBS 12859	GCA 030572075.1	93.20%	93.10%	0.10%	0.90%	5.90%
<i>Saccharomycetes</i>							
<i>Ascoideales</i>							
<i>Ascoidea rubescens</i>	DSM 1968	GCA 001661345.1	90.50%	89.30%	1.20%	2.00%	7.50%
<i>Saccharomycopsis capsularis</i>	NRRL Y-17639	GCA 003705375.1	93.70%	92.50%	1.20%	0.80%	5.50%
<i>Phaffomycetales</i>							
<i>Barnettozyma botsteinii</i>	1118	GCA 020280145.1	93.80%	93.70%	0.10%	0.90%	5.30%
<i>Barnettozyma californica</i>	NRRL Y-17395	GCA 003706655.2	96.00%	95.90%	0.10%	0.90%	3.10%
<i>Barnettozyma hawaiiensis</i>	NRRL Y-27270	GCA 003706665.1	96.40%	96.30%	0.10%	0.40%	3.20%
<i>Barnettozyma populi</i>	NRRL Y-12728	GCA 003706705.2	96.10%	96.00%	0.10%	0.30%	3.60%
<i>Barnettozyma pratensis</i>	NRRL Y-12696	GCA 003707865.1	95.20%	95.10%	0.10%	0.50%	4.30%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Barnettozyma salicaria</i>	NRRL Y-6780	GCA 003707885.1	96.80%	90.10%	6.70%	0.40%	2.80%
<i>Barnettozyma siamensis</i>	CBS 13392	GCA 030579035.1	94.30%	94.20%	0.10%	0.80%	4.90%
<i>Barnettozyma sp.</i>	yHDO593	GCA 030580455.1	95.70%	95.60%	0.10%	0.50%	3.80%
<i>Barnettozyma sucrosica</i>	CBS 11512	GCA 030558145.1	96.10%	96.00%	0.10%	0.70%	3.20%
<i>Barnettozyma vustinii</i>	CBS 11554	GCA 030569515.1	96.50%	96.40%	0.10%	0.40%	3.10%
<i>Barnettozyma wickerhamii</i>	NRRL Y-2435	GCA 030574915.1	96.10%	95.80%	0.30%	0.90%	3.00%
<i>Candida adriatica</i>	CBS 12504	GCA 030558135.1	95.50%	95.40%	0.10%	1.10%	3.40%
<i>Candida berthetii</i>	NRRL Y-17644	GCA 030564525.1	95.60%	92.60%	3.00%	2.40%	2.00%
<i>Candida coquimbensis</i>	CBS 12348	GCA 030566895.1	93.40%	93.10%	0.30%	1.30%	5.30%
<i>Candida dajiaensis</i>	CBS 10590	GCA 030579075.1	97.30%	97.00%	0.30%	0.30%	2.40%
<i>Candida dendrica</i>	NRRL Y-7775	GCA 030570475.1	92.20%	92.10%	0.10%	4.10%	3.70%
<i>Candida easanensis</i>	JCM 12476	GCA 030580135.1	96.90%	96.80%	0.10%	0.30%	2.80%
<i>Candida ficus</i>	CBS 12638	GCA 030557985.1	92.30%	92.00%	0.30%	1.50%	6.20%
<i>Candida freyschussii</i>	NRRL Y-7957A	GCA 003707735.2	98.50%	98.00%	0.50%	0.10%	1.40%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida galis</i>	NRRL Y-48037	GCA 030568845.1	96.10%	96.00%	0.10%	0.50%	3.40%
<i>Candida hungchunana</i>	CBS 12243	GCA 030563225.1	98.60%	98.30%	0.30%	0.00%	1.40%
<i>Candida jianshihensis</i>	CBS 10591	GCA 030562945.1	97.10%	96.70%	0.40%	1.10%	1.80%
<i>Candida maesae</i>	CBS 12240	GCA 030563305.1	97.70%	97.60%	0.10%	0.10%	2.20%
<i>Candida montana</i>	NRRL Y-17326	GCA 003706615.3	93.90%	93.80%	0.10%	0.80%	5.30%
<i>Candida namnaoensis</i>	CBS 12175	GCA 030563805.1	95.10%	95.10%	0.00%	0.70%	4.20%
<i>Candida norvegica</i>	NRRL Y-17660	GCA 030567455.1	96.20%	96.20%	0.00%	0.40%	3.40%
<i>Candida odintsovae</i>	NRRL Y-17760	GCA 030557705.1	98.10%	97.80%	0.30%	0.50%	1.40%
<i>Candida orba</i>	NRRL Y-27336	GCA 003708145.2	95.40%	95.10%	0.30%	0.80%	3.80%
<i>Candida peoriensis</i>	NRRL YB-1497	GCA 030574875.1	98.10%	97.80%	0.30%	0.10%	1.80%
<i>Candida ponderosae</i>	NRRL YB-2307	GCA 003706755.2	96.70%	96.00%	0.70%	0.30%	3.00%
<i>Candida qinlingensis</i>	CBS 9768	GCA 030563005.1	95.60%	95.50%	0.10%	0.50%	3.90%
<i>Candida quercuum</i>	NRRL Y-12942	GCA 030556525.1	98.10%	97.80%	0.30%	0.30%	1.60%
<i>Candida sanyiensis</i>	CBS 10592	GCA 030569275.1	96.00%	95.60%	0.40%	0.30%	3.70%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Candida silvicultrix</i>	NRRL Y-7789	GCA 030574755.1	98.80%	98.70%	0.10%	0.40%	0.80%
<i>Candida solani</i>	NRRL Y-2224	GCA 030462955.1	60.70%	59.90%	0.80%	22.00%	17.30%
<i>Candida</i> sp.	XZY480-2	NMDC2030 1684 [#]	93.00%	92.90%	0.10%	0.90%	6.10%
<i>Candida</i> sp.	NRRL Y-27127	GCA 030574675.1	97.30%	96.80%	0.50%	0.50%	2.20%
<i>Candida</i> sp.	NRRL YB-4088	GCA 030567155.1	98.20%	97.90%	0.30%	0.00%	1.80%
<i>Candida stauntonica</i>	CBS 12241	GCA 030558335.1	98.20%	97.80%	0.40%	0.40%	1.40%
<i>Candida takata</i>	CBS 12244	GCA 030564145.1	97.70%	97.40%	0.30%	0.40%	1.90%
<i>Candida taoyuanica</i>	CBS 12242	GCA 030567055.1	98.40%	98.30%	0.10%	0.40%	1.20%
<i>Candida ulmi</i>	CBS 8670	GCA 030569675.1	98.20%	97.90%	0.30%	0.30%	1.50%
<i>Candida subsp. tiovaarae</i>	NRRL Y-6701	GCA 003708265.2	97.90%	97.60%	0.30%	0.30%	1.80%
<i>Candida yuanshanica</i>	CBS 10589	GCA 030569295.1	98.50%	98.40%	0.10%	0.40%	1.10%
<i>Cyberlindnera americana</i>	NRRL Y-2156	GCA 003708795.2	99.00%	98.90%	0.10%	0.30%	0.70%
<i>Cyberlindnera amylophila</i>	NRRL YB-1287	GCA 030557155.1	92.40%	92.30%	0.10%	2.00%	5.60%
<i>Cyberlindnera bimundalis</i>	NRRL Y-5343	GCA 030569745.1	98.80%	98.70%	0.10%	0.50%	0.70%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Cyberlindnera euphorbiae</i>	NRRL Y-17232	GCA 030567115.1	93.10%	93.10%	0.00%	1.20%	5.70%
<i>Cyberlindnera euphorbiiphila</i>	NRRL Y-12742	GCA 030556625.1	96.70%	96.40%	0.30%	0.30%	3.00%
<i>Cyberlindnera fabianii</i>	NRRL Y-1871	GCA 018343965.1	98.70%	98.40%	0.30%	0.30%	1.00%
<i>Cyberlindnera galapagoensis</i>	CBS 13997	GCA 030565205.1	98.60%	98.30%	0.30%	0.10%	1.30%
<i>Cyberlindnera jadinii</i>	NRRL Y-1542	GCA 001661405.1	97.40%	96.20%	1.20%	1.10%	1.50%
<i>Cyberlindnera japonica</i>	NRRL YB-2750	GCA 030557175.1	97.70%	97.60%	0.10%	0.70%	1.60%
<i>Cyberlindnera lachancei</i>	NRRL Y-27008	GCA 030567175.1	98.00%	96.00%	2.00%	0.40%	1.60%
<i>Cyberlindnera macluriae</i>	NRRL Y-5377	GCA 003708355.2	98.30%	97.90%	0.40%	0.70%	1.00%
<i>Cyberlindnera maritima</i>	NRRL Y-17775	GCA 030557345.1	98.60%	98.50%	0.10%	0.00%	1.40%
<i>Cyberlindnera meyeriae</i>	NRRL Y-17236	GCA 030462915.1	92.60%	92.30%	0.30%	2.40%	5.00%
<i>Cyberlindnera mississippiensis</i>	NRRL YB-1294	GCA 030581715.1	95.70%	95.60%	0.10%	0.80%	3.50%
<i>Cyberlindnera misumaiensis</i>	NRRL Y-17389	GCA 003707745.1	97.70%	96.80%	0.90%	0.40%	1.90%
<i>Cyberlindnera mrakii</i>	NRRL Y-1364	GCA 003706445.2	98.80%	98.40%	0.40%	0.00%	1.20%
<i>Cyberlindnera mycetangii</i>	NRRL Y-6843	GCA 003708295.2	99.20%	98.90%	0.30%	0.10%	0.70%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Cyberlindnera nakhonratchasimensis</i>	JCM 12474	GCA 030572335.1	98.80%	98.50%	0.30%	0.00%	1.20%
<i>Cyberlindnera petersonii</i>	NRRL YB-3808	GCA 003706915.2	98.60%	98.30%	0.30%	0.70%	0.70%
<i>Cyberlindnera rhodanensis</i>	NRRL Y-7854	GCA 030569395.1	98.10%	97.80%	0.30%	0.70%	1.20%
<i>Cyberlindnera samutprakarnensis</i>	CBS 12528	GCA 030569715.1	98.10%	97.80%	0.30%	0.30%	1.60%
<i>Cyberlindnera sargentensis</i>	SHA 17.2	GCA 020995425.1	97.90%	97.60%	0.30%	0.30%	1.80%
<i>Cyberlindnera saturnus</i>	NRRL Y-17396	GCA 003709245.2	98.30%	95.00%	3.30%	0.40%	1.30%
<i>Cyberlindnera sp.</i>	NRRL Y-7615	GCA 030557335.1	98.90%	98.80%	0.10%	0.10%	1.00%
<i>Cyberlindnera sp.</i>	NRRL Y-27103	GCA 030567185.1	98.00%	97.60%	0.40%	0.40%	1.60%
<i>Cyberlindnera sp.</i>	NRRL Y-27267	GCA 030572555.1	97.40%	97.10%	0.30%	0.40%	2.20%
<i>Cyberlindnera suaveolens</i>	NRRL Y-17391	GCA 003708225.2	98.50%	98.40%	0.10%	0.40%	1.10%
<i>Cyberlindnera subsufficiens</i>	NG8.2	GCA 017948575.1	98.40%	98.30%	0.10%	0.40%	1.20%
<i>Cyberlindnera veronae</i>	NRRL Y-7818	GCA 030563065.1	98.30%	98.20%	0.10%	0.40%	1.30%
<i>Cyberlindnera xishuangbannaensis</i>	CBS 14692	GCA 030585085.1	98.50%	98.20%	0.30%	0.40%	1.10%
<i>Cyberlindnera xylosilytica</i>	NRRL YB-2097	GCA 003708285.1	98.90%	94.90%	4.00%	0.10%	1.00%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Millerago phaffii</i>	UFMG-CM-Y7052	GCA 040802125.1	87.80%	87.70%	0.10%	2.40%	9.80%
<i>Phaffomyces antillensis</i>	NRRL Y-12881	GCA 003707195.1	94.70%	94.60%	0.10%	0.70%	4.60%
<i>Phaffomyces opuntiae</i>	NRRL Y-11707	GCA 003707165.1	93.80%	93.40%	0.40%	1.10%	5.10%
<i>Phaffomyces thermotolerans</i>	NRRL Y-11709	GCA 003707215.1	95.10%	95.00%	0.10%	0.70%	4.20%
<i>Starmera amethionina</i>	NRRL Y-10978	GCA 003708085.1	89.00%	88.50%	0.50%	1.50%	9.50%
<i>Starmera caribaea</i>	NRRL Y-17468	GCA 030565045.1	91.70%	89.30%	2.40%	1.50%	6.80%
<i>Starmera dryadoides</i>	NRRL Y-10990	GCA 030579655.1	98.00%	97.60%	0.40%	0.50%	1.50%
<i>Starmera pachycereana</i>	NRRL Y-10981	GCA 030570535.1	89.40%	89.10%	0.30%	1.60%	9.00%
<i>Starmera quercuum</i>	NRRL YB-4281	GCA 003705275.1	97.70%	96.00%	1.70%	0.70%	1.60%
<i>Starmera sp.</i>	NRRL Y-17713	GCA 030570575.1	95.50%	95.40%	0.10%	0.70%	3.80%
<i>Starmera stellimalicola</i>	NRRL Y-17912	GCA 003707265.1	95.50%	95.40%	0.10%	0.50%	4.00%
<i>Wickerhamomyces alni</i>	NRRL Y-11625	GCA 003707985.2	97.90%	97.50%	0.40%	0.40%	1.70%
<i>Wickerhamomyces anomalus</i>	NRRL Y-366-8	GCA 001661255.1	96.20%	94.90%	1.30%	1.70%	2.10%
<i>Wickerhamomyces bisporus</i>	VH7 F	GCA 024271855.1	97.50%	97.20%	0.30%	0.70%	1.80%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)																																																																																																																												
<i>Wickerhamomyces bovis</i>	NRRL	GCA	98.10%	97.60%	0.50%	0.30%	1.60%																																																																																																																												
	YB-4184	003707945.2						<i>Wickerhamomyces canadensis</i>	NRRL	GCA	97.90%	97.50%	0.40%	0.50%	1.60%	Y-1888	003707015.2	<i>Wickerhamomyces chambardii</i>	NRRL	GCA	91.70%	84.00%	7.70%	4.00%	4.30%	Y-2378	030574595.1	<i>Wickerhamomyces chaumierensis</i>	CBS 8565	GCA	93.00%	92.70%	0.30%	0.70%	6.30%		030566875.1	<i>Wickerhamomyces cijferrii</i>	NRRL	GCA	96.70%	96.70%	0.00%	0.80%	2.50%	Y-1031	000313485.1	<i>Wickerhamomyces hampshirensis</i>	NRRL	GCA	98.40%	98.30%	0.10%	0.50%	1.10%	YB-4128	003706765.2	<i>Wickerhamomyces kurtzmanii</i>	CBS 15418	GCA	95.40%	95.00%	0.40%	2.60%	2.00%		030572875.1	<i>Wickerhamomyces lynferdii</i>	NRRL	GCA	97.10%	4.50%	92.60%	1.20%	1.70%	Y-7723	030582155.1	<i>Wickerhamomyces mucosus</i>	CBS 6341	GCA	95.80%	95.50%	0.30%	0.50%	3.70%		020536175.1	<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%	Y-7123	030582435.1	<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%
<i>Wickerhamomyces canadensis</i>	NRRL	GCA	97.90%	97.50%	0.40%	0.50%	1.60%																																																																																																																												
	Y-1888	003707015.2						<i>Wickerhamomyces chambardii</i>	NRRL	GCA	91.70%	84.00%	7.70%	4.00%	4.30%	Y-2378	030574595.1	<i>Wickerhamomyces chaumierensis</i>	CBS 8565	GCA	93.00%	92.70%	0.30%	0.70%	6.30%		030566875.1	<i>Wickerhamomyces cijferrii</i>	NRRL	GCA	96.70%	96.70%	0.00%	0.80%	2.50%	Y-1031	000313485.1	<i>Wickerhamomyces hampshirensis</i>	NRRL	GCA	98.40%	98.30%	0.10%	0.50%	1.10%	YB-4128	003706765.2	<i>Wickerhamomyces kurtzmanii</i>	CBS 15418	GCA	95.40%	95.00%	0.40%	2.60%	2.00%		030572875.1	<i>Wickerhamomyces lynferdii</i>	NRRL	GCA	97.10%	4.50%	92.60%	1.20%	1.70%	Y-7723	030582155.1	<i>Wickerhamomyces mucosus</i>	CBS 6341	GCA	95.80%	95.50%	0.30%	0.50%	3.70%		020536175.1	<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%	Y-7123	030582435.1	<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1				
<i>Wickerhamomyces chambardii</i>	NRRL	GCA	91.70%	84.00%	7.70%	4.00%	4.30%																																																																																																																												
	Y-2378	030574595.1						<i>Wickerhamomyces chaumierensis</i>	CBS 8565	GCA	93.00%	92.70%	0.30%	0.70%	6.30%		030566875.1	<i>Wickerhamomyces cijferrii</i>	NRRL	GCA	96.70%	96.70%	0.00%	0.80%	2.50%	Y-1031	000313485.1	<i>Wickerhamomyces hampshirensis</i>	NRRL	GCA	98.40%	98.30%	0.10%	0.50%	1.10%	YB-4128	003706765.2	<i>Wickerhamomyces kurtzmanii</i>	CBS 15418	GCA	95.40%	95.00%	0.40%	2.60%	2.00%		030572875.1	<i>Wickerhamomyces lynferdii</i>	NRRL	GCA	97.10%	4.50%	92.60%	1.20%	1.70%	Y-7723	030582155.1	<i>Wickerhamomyces mucosus</i>	CBS 6341	GCA	95.80%	95.50%	0.30%	0.50%	3.70%		020536175.1	<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%	Y-7123	030582435.1	<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1														
<i>Wickerhamomyces chaumierensis</i>	CBS 8565	GCA	93.00%	92.70%	0.30%	0.70%	6.30%																																																																																																																												
		030566875.1						<i>Wickerhamomyces cijferrii</i>	NRRL	GCA	96.70%	96.70%	0.00%	0.80%	2.50%	Y-1031	000313485.1	<i>Wickerhamomyces hampshirensis</i>	NRRL	GCA	98.40%	98.30%	0.10%	0.50%	1.10%	YB-4128	003706765.2	<i>Wickerhamomyces kurtzmanii</i>	CBS 15418	GCA	95.40%	95.00%	0.40%	2.60%	2.00%		030572875.1	<i>Wickerhamomyces lynferdii</i>	NRRL	GCA	97.10%	4.50%	92.60%	1.20%	1.70%	Y-7723	030582155.1	<i>Wickerhamomyces mucosus</i>	CBS 6341	GCA	95.80%	95.50%	0.30%	0.50%	3.70%		020536175.1	<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%	Y-7123	030582435.1	<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																								
<i>Wickerhamomyces cijferrii</i>	NRRL	GCA	96.70%	96.70%	0.00%	0.80%	2.50%																																																																																																																												
	Y-1031	000313485.1						<i>Wickerhamomyces hampshirensis</i>	NRRL	GCA	98.40%	98.30%	0.10%	0.50%	1.10%	YB-4128	003706765.2	<i>Wickerhamomyces kurtzmanii</i>	CBS 15418	GCA	95.40%	95.00%	0.40%	2.60%	2.00%		030572875.1	<i>Wickerhamomyces lynferdii</i>	NRRL	GCA	97.10%	4.50%	92.60%	1.20%	1.70%	Y-7723	030582155.1	<i>Wickerhamomyces mucosus</i>	CBS 6341	GCA	95.80%	95.50%	0.30%	0.50%	3.70%		020536175.1	<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%	Y-7123	030582435.1	<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																																		
<i>Wickerhamomyces hampshirensis</i>	NRRL	GCA	98.40%	98.30%	0.10%	0.50%	1.10%																																																																																																																												
	YB-4128	003706765.2						<i>Wickerhamomyces kurtzmanii</i>	CBS 15418	GCA	95.40%	95.00%	0.40%	2.60%	2.00%		030572875.1	<i>Wickerhamomyces lynferdii</i>	NRRL	GCA	97.10%	4.50%	92.60%	1.20%	1.70%	Y-7723	030582155.1	<i>Wickerhamomyces mucosus</i>	CBS 6341	GCA	95.80%	95.50%	0.30%	0.50%	3.70%		020536175.1	<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%	Y-7123	030582435.1	<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																																												
<i>Wickerhamomyces kurtzmanii</i>	CBS 15418	GCA	95.40%	95.00%	0.40%	2.60%	2.00%																																																																																																																												
		030572875.1						<i>Wickerhamomyces lynferdii</i>	NRRL	GCA	97.10%	4.50%	92.60%	1.20%	1.70%	Y-7723	030582155.1	<i>Wickerhamomyces mucosus</i>	CBS 6341	GCA	95.80%	95.50%	0.30%	0.50%	3.70%		020536175.1	<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%	Y-7123	030582435.1	<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																																																						
<i>Wickerhamomyces lynferdii</i>	NRRL	GCA	97.10%	4.50%	92.60%	1.20%	1.70%																																																																																																																												
	Y-7723	030582155.1						<i>Wickerhamomyces mucosus</i>	CBS 6341	GCA	95.80%	95.50%	0.30%	0.50%	3.70%		020536175.1	<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%	Y-7123	030582435.1	<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																																																																
<i>Wickerhamomyces mucosus</i>	CBS 6341	GCA	95.80%	95.50%	0.30%	0.50%	3.70%																																																																																																																												
		020536175.1						<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%	Y-7123	030582435.1	<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																																																																										
<i>Wickerhamomyces onychis</i>	NRRL	GCA	96.90%	96.60%	0.30%	1.50%	1.60%																																																																																																																												
	Y-7123	030582435.1						<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%		020536225.1	<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																																																																																				
<i>Wickerhamomyces pijperi</i>	CBS 2887	GCA	92.20%	92.10%	0.10%	0.90%	6.90%																																																																																																																												
		020536225.1						<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%	Y-48478	030674255.1	<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																																																																																														
<i>Wickerhamomyces queroliae</i>	NRRL	GCA	98.40%	98.00%	0.40%	0.40%	1.20%																																																																																																																												
	Y-48478	030674255.1						<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%	Y-7945	030574855.1	<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																																																																																																								
<i>Wickerhamomyces rabaulensis</i>	NRRL	GCA	97.80%	97.50%	0.30%	0.70%	1.50%																																																																																																																												
	Y-7945	030574855.1						<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%	Y-1678	030570795.1																																																																																																																		
<i>Wickerhamomyces silvicola</i>	NRRL	GCA	91.50%	91.40%	0.10%	2.40%	6.10%																																																																																																																												
	Y-1678	030570795.1																																																																																																																																	

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Wickerhamomyces sp.</i>	yHMH451	GCA 030571095.1	98.70%	98.40%	0.30%	0.50%	0.80%
<i>Wickerhamomyces sp.</i>	yHQL14	GCA 030561705.1	93.10%	47.80%	45.30%	1.30%	5.60%
<i>Wickerhamomyces sp.</i>	NRRL Y-7574	GCA 030580075.1	97.90%	97.80%	0.10%	0.40%	1.70%
<i>Wickerhamomyces sp.</i>	NRRL YB-2243	GCA 003706815.2	97.80%	97.40%	0.40%	0.40%	1.80%
<i>Wickerhamomyces sp.</i>	NRRL YB-3031	GCA 030564165.1	98.00%	97.50%	0.50%	0.30%	1.70%
<i>Wickerhamomyces sp.</i>	yHMH26	GCA 030571235.1	96.90%	96.60%	0.30%	0.30%	2.80%
<i>Wickerhamomyces sp.</i>	yHMH617	GCA 030571115.1	98.30%	97.90%	0.40%	0.10%	1.60%
<i>Wickerhamomyces sp.</i>	NRRL Y-17067	GCA 030581995.1	97.80%	97.40%	0.40%	0.40%	1.80%
<i>Wickerhamomyces sp.</i>	NRRL Y-48258	GCA 030557145.1	93.00%	91.20%	1.80%	0.70%	6.30%
<i>Wickerhamomyces strasburgensis</i>	NRRL Y-2383	GCA 030574715.1	96.10%	94.50%	1.60%	0.80%	3.10%
<i>Wickerhamomyces subpelliculosus</i>	NRRL Y-1683	GCA 030582255.1	97.20%	97.10%	0.10%	1.30%	1.50%
<i>Wickerhamomyces sydowiorum</i>	NRRL Y-7130	GCA 030574735.1	95.60%	95.50%	0.10%	2.90%	1.50%
<i>Wickerhamomyces tratensis</i>	CBS 12176	GCA 030564005.1	92.70%	92.60%	0.10%	2.20%	5.10%
<i>Wickerhamomyces xylosica</i>	NBRC 108869	GCA 030581495.1	94.50%	94.10%	0.40%	0.30%	5.20%

Table S1. List of yeast strains and genomes used in this study (Continue)

Taxa	Strain	Assembly	Complete BUSCOs (C)	Complete and single-copy BUSCOs (S)	Complete and duplicated BUSCOs (D)	Fragmented BUSCOs (F)	Missing BUSCOs (M)
<i>Trigonopsidomycetes</i>							
<i>Tortispora ganteri</i>	NRRL Y-17035	GCA 003707115.1	92.50%	92.00%	0.50%	1.80%	5.70%
<i>Trigonopsis variabilis</i>	NRRL Y-1579	GCA 003707065.2	97.50%	97.40%	0.10%	0.40%	2.10%

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Dipodascomycetes</i>				
<i>Dipodascales</i>				
<i>Dipodascaceae</i>				
<i>Middelhovenomyces</i>				
<i>M. petrohuensis</i>		NRRL Y-17663 ^T = CBS 8173	JQ689061	KY104263
<i>M. tepae</i>		NRRL Y-17670 ^T = CBS 5115	JQ689063	KY104265
<i>Trichomonascaceae</i>				
<i>Blastobotrys</i>				
<i>B. adenivorans</i>		NRRL Y-17692 ^T = CBS 8244	NG_055336	NR_165943
<i>B. allociferrii</i>		IFO 10194 ^T = CBS 5166	NG_055298	KY101922
<i>B. americana</i>		NRRL Y-6844 ^T = CBS 10337	NG_055338	NR_153635
<i>B. arbuscula</i>		NRRL Y-17585 ^T = CBS 227.83	U40108	OL772655
<i>B. aristatus</i>		NRRL Y-17579 ^T = CBS 521.75	U40109	OP221981
<i>B. attinorum</i>		CBS 9734 ^T	NG_058625	NR_153636
<i>B. baotianmanensis</i>		CBS16024 ^T = NYNU 1581	KU128725	KU128710
<i>B. bombycis</i>		CBS 15274 ^T = PYCC 8105 = MCC 1427	MG018987	MG018986
<i>B. buckinghamii</i>		CBS 13900 ^T = NRRL Y-63727	OL772654	OL772658
<i>B. capitulata</i>		NRRL Y-17573 ^T = CBS 287.82	U40104	OL772659
<i>B. chiropterorum</i>		NRRL Y-17071 ^T = CBS 6064	NG_055412	NR_153637
<i>B. davincii</i>		CBS 16861 ^T	MW367634	MW367648
<i>B. elegans</i>		NRRL Y-17572 ^T = CBS 530.83	U40095	OL772660
<i>B. farinosus</i>		CBS 140.71 ^T	U40132	OL772661
<i>B. illinoisensis</i>		NRRL Y-1343 ^T = CBS 10339	NG_042438	NR_165957
<i>B. indianensis</i>		NRRL YB-1950 ^T = CBS 9600	NG_055333	KY101752
<i>B. malaysiensis</i>		NRRL Y-6417 ^T = CBS 10336	NG_042437	NR_165958
<i>B. meliponae</i>		URM7224 ^T = CBS 14100	NG_055399	KT448721
<i>B. mokoenaai</i>		NRRL Y-27120 ^T = CBS 8435	NG_055335	NR_073348
<i>B. mucifera</i>		CBS 7409 ^T	KY106587	KY102217
<i>B. muscicola</i>		NRRL Y-7993 ^T = CBS 10338	NG_055329	KY101755

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>B. niveus</i>		NRRL Y-17581 ^T = CBS 163.67	U40110	NR_077180
<i>B. parvus</i>	<i>Symphodiomyces parvus</i>	NRRL Y-10004 ^T = CBS 6147	NG_055334	NR_153639
<i>B. peoriensis</i>		NRRL YB-2290 ^T = CBS 10340	NG_055339	NR_153640
<i>B. persicus</i>		IBRC-M 30238 ^T = CBS 14259	KU659141	OL772663
<i>B. proliferans</i>		NRRL Y-17577 ^T = CBS 522.75	U40098	NR_077193
<i>B. raffinosifermentans</i>		NRRL Y-27150 ^T = CBS 6800	NG_055337	NR_165959
<i>B. robertii</i>		NRRL Y-27775 ^T = CBS 10106	NG_055356	KY101760
<i>B. terrestris</i>	<i>Arxula terrestris</i>	NRRL Y-17704 ^T = JCM 16832 = CBS 278.86	U40103	AB565767
<i>B. serpentis</i>		NRRL Y-48249 ^T = CBS 10541	AM410667	AM410670
<i>B. xishuangbannaensis</i>		CBS 16044 ^T = NYNU 181024	MK682809	MK682811
Uncultured <i>Stephanoascus</i> clone		F9-K27	\	KC535144
Uncultured <i>Stephanoascus</i> clone		CI-K20	\	KP828159
<i>Casaregolazyma gen. nov.</i> (<i>Candida lundiana</i> clade)				
<i>C. lundiana comb. nov.</i>	<i>Candida lundiana</i>	JCM 16823 ^T = CBS 12271	AB565752	NR_137645
<i>C. patagonica sp. nov.</i>	<i>Candida patagonica</i>	CECT 12029 ^T = CBS 10443	DQ841165	NR_159550
<i>C. suthepensis comb. nov.</i>	<i>Candida suthepensis</i>	CBS 12270 ^T = JCM 16822	AB565751	\
<i>Crinitomyces</i>				
<i>C. flavificans</i>		CBS 760.79 ^T	OK298462	NR_182465
<i>C. ghanaensis</i>		NRRL YB-1486 ^T = CBS 8798	KY106464	KY102101
<i>C. reliqui</i>		DMKU FW23-23 ^T	NG_153944	NR_182708
<i>Daia gen. nov.</i> (<i>Zygoascus tannicola</i> clade)				
<i>D. ofunaensis comb. nov.</i>	<i>Zygoascus ofunaensis</i>	NRRL Y-10998 ^T	U45829	genome
<i>D. tannicola comb. nov.</i>	<i>Zygoascus tannicola</i>	CBS 6065 ^T	U45803	KY106018
<i>Deakozya gen. nov.</i>				
<i>D. indianensis sp. nov.</i>	<i>Deakozya indianensis</i>	NRRL YB-1937 ^T = CBS 12903	NG_064315	KJ476205
<i>D. yunnanensis sp. nov.</i>	<i>Deakozya yunnanensis</i>	NYNU 16742 ^T = CICC 33160 = CBS 14688	KY284160	KY284161
<i>Diddensiella</i>				
<i>D. caesifluorescens</i>		NCAIM Y.01949 ^T = CBS 12613 = NRRL Y-48781	GU195654	JF895509
<i>D. luoyangensis</i>		NYNU 201062 ^T	MW374264	MW374289
<i>D. parasantjacobensis</i>		NCAIM Y.02121 = CBS 17819	KJ186105	MZ331535

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>D. santjacobensis</i>		NRRL Y-17667 ^T = CBS 8183	JQ689062	NR_151808
<i>D. transvaalensis</i>		NRRL Y-27140 ^T	DQ442702	OP689516
<i>Entelexis</i> (Starmerella clade 1)				
<i>E. apis</i> comb. nov.	<i>Starmerella apis</i>	CBS 2674 ^T = JCM 8256 = NRRL Y-2482	NG_060800	OW987779
<i>E. geochares</i> comb. nov.	<i>Starmerella geochares</i>	CBS 6870 ^T = NRRL Y-17073	KY106462	KY102099
<i>E. gropengiesseri</i> comb. nov.	<i>Starmerella gropengiesseri</i>	NRRL Y-17142 ^T = JCM 8255 = CBS 156	U45721	KY106485
<i>E. litoralis</i> comb. nov.	<i>Starmerella litoralis</i>	UFMG-CM-Y603 ^T = CBS 14104	KU724083	MG272263
<i>E. paramagnoliae</i> comb. nov.	<i>Starmerella magnoliae</i>	PYCC 2903 ^T = CBS 166 ^T	NG_060814	KF181964
<i>E. magnoliae</i>		CBS 2798 ^T	AY521568	\
<i>E. potacharoeniae</i> comb. nov.	<i>Starmerella potacharoeniae</i>	CBS 11674 ^T = NBRC 106439	AB537430	\
<i>E. sorbosivorans</i> comb. nov.	<i>Starmerella sorbosivorans</i>	CBS 8768 ^T	NG_060827	KJ630500
<i>E. spenceri</i> comb. nov.	<i>Candida spenceri</i>	CBS 11673 ^T = NBRC 106445	AB537437	MW544063
<i>E. stigmatis</i> sp. nov.	<i>Starmerella stigmatis</i>	CBS 11464 ^T	KY106782	GQ184143
<i>E. syriaca</i> sp. nov.	<i>Starmerella syriaca</i>	CBS 13909 ^T	JX515986	JX515987
<i>E. tilneyi</i> sp. nov.	<i>Starmerella tilneyi</i>	CBS 8794 ^T	KY106810	KJ630493
<i>E. vaccinii</i> comb. nov.	<i>Starmerella vaccinii</i>	CBS 7318 ^T = JCM 9446 = NRRL Y-17684	KY106857	KJ630498
<i>E. xylocopis</i> comb. nov.	<i>Starmerella xylocopis</i>	CBS 5659 ^T	AY521569	KF181968
<i>Starmerella</i> sp.		D91W	JQ026356	\
<i>Starmerella</i> sp.		CBS 6425	KF501396	\
<i>Starmerella</i> sp.		UASWS2977 SBI-E01	ON454162	\
<i>Starmerella</i> sp.		D91WR	KF850165	\
<i>Starmerella</i> sp.		11-1755	MW899350	\
<i>Grinbergsozyma</i> gen. nov. (single-species lineage <i>Candida bentonensis</i>)				
<i>G. bentonensis</i> comb. nov.	<i>Candida bentonensis</i>	CBS 9994 ^T = NRRL YB-2364	NG_058978	KY101956
<i>G. bentonensis</i>		Y1M	MG478466	\
<i>G. bentonensis</i>		MEA1981	MT123750	\
<i>G. bentonensis</i>		AUMC10764	\	KY495732
<i>Candida</i> sp.		UWO(PS)00-168.1	AF530620	\
<i>Candida</i> sp.		UFMG-CM-Y6917	OM321692	\
<i>Candida</i> sp.		UFMG-CM-Y2876	MG694211	\

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Candida</i> sp.		UWO(PS)91-151	AF530617	\
<i>Groenewaldozyma</i>				
<i>G. auringiensis</i>	<i>Candida auringiensis</i>	NRRL Y-17674 ^T = CBS 6913	DQ438225	KY103491
<i>G. salmanticensis</i>	<i>Torulopsis salmanticensis</i>	CBS 5121 ^T = NRRL Y-17090	KY107773	NR_111299
<i>G. tartarivorans</i>	<i>Candida tartarivorans</i>	CBS 7955 ^T = NRRL Y-27291	KY107774	KY103493
<i>Limtongella</i> gen. nov.				
<i>L. siamensis</i> sp. nov.	<i>Limtongella siamensis</i>	DMKU-JMGT1-45 ^T = CBS 11022	NG_075300	\
<i>L. incommunis</i> comb. nov.	<i>Candida incommunis</i>	NRRL Y-17085 ^T = CBS 5604 = MUCL29843	U62303	NR_077184
<i>Candida</i> cf. <i>incommunis</i>		UWO(PS)01-669.2	AF530616	\
<i>Candida</i> sp.		YWW5-1	LC387304	\
<i>Candida</i> sp.		DMKU-FW29-11	OL679539	\
<i>Spencermartinsiella</i>				
<i>S. cellulicola</i>	<i>Candida cellulicola</i>	CBS 11952 ^T	NG_055207	NR_151783
<i>S. europaea</i>		NRRL Y-48265 ^T = CBS 11730	NG_042528	KY105460
<i>S. henanensis</i>		NYUN 211162 ^T	OM017166	OM017167
<i>S. japonica</i>		JCM 35526 ^T	LC709264	LC709262
<i>S. ligniputridi</i>		CBS 12585 ^T	KY109692	KY105462
<i>S. nicolii</i>		CBS 14238 ^T	KT377038	KT377038
<i>S. silvicola</i>		UFMG-CM-Y274 ^T = CBS 13490	KC906243	KT222943
<i>Spencermartinsiella</i> sp.		W379	JN544060	JN581122
<i>Candida</i> sp.		NCAIM Y.01957	GU195663	KT222945
<i>Candida</i> sp.		NCAIM Y.01937	GQ340914	KT222944
<i>Candida</i> sp.		GY44S02	FJ527143	FJ873418
<i>Candida</i> sp.		GYA1S04	FJ527142	FJ873417
<i>Starmerella sensu stricto</i>				
<i>S. batistae</i>		CBS 8550 ^T	NG_060801	NR_155813
<i>S. bombicola</i>		NRRL Y-17069 ^T = CBS 6009 = JCM 9596	JQ689065	KY105542
<i>S. caucasica</i>		CBS 12650 ^T	NG_058407	NR_155849
<i>S. floricola</i>		CBS 7289 ^T = NRRL Y-17676	KY106448	NR_155819
<i>S. ilheusensis</i>		UFMG-CM-Y596 ^T = CBS 14131	KR232374	KR232375

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>S. kuoi</i>		CBS 7267 ^T = NRRL Y-27208	NG_073590	NR_164377
<i>S. monicapupoeae</i>		PYCC 8897 ^T	MG737688	MW289921
<i>S. orientalis sp. nov.</i>	<i>Starmerella orientalis</i>	IBRC-M 30204 ^T = CBS 14142	KM269180	KM269181
<i>S. powellii sp. nov.</i>	<i>Starmerella powellii</i>	CBS 8795 ^T	KY106697	KY102339
<i>S. riodocensis</i>		CBS 10087 ^T = NRRL Y-27859	KY106726	NR_137870
<i>Starmerella cf. bombicola</i>		UWOPS 00-227.2	HQ111057	HQ111057
<i>Starmerella cf. bombicola</i>		UWOPS 00-531	HQ111056	HQ111056
<i>Candida cf. floricola</i>		UWO(PS)95-408.3	AF313349	\
<i>Candida cf. powellii</i>		UWO(PS)00-195.2	AF313355	\
<i>Starmerella apicola</i> clade				
<i>S. aceti</i>		CBS 13086 ^T	KF247224	NR_160317
<i>S. anomalae</i>		NYNU 15745 ^T = CBS 14178	KU128732	KU128715
<i>S. apicola</i>		NRRL Y-2481 ^T = JCM 9592 = CBS 2868	U45703	KY101940
<i>S. asiatica</i>		NYNU 15782 ^T = CBS 14173	KU128728	KU128719
<i>S. bombi</i>		NRRL Y-17081 ^T = CBS 5836	U45706	MW074167
<i>S. cerana</i>		HSB-15 ^T	OR475317	OR470602
<i>S. gilliamiae</i>		CBS 16166 ^T	MG737679	MW289920
<i>S. henanensis</i>		NYNU 15766 ^T = CBS 14172	KU128730	KU128716
<i>S. jinningensis</i>		CBS 11864 ^T	NG_058408	NR_155850
<i>S. kisarazuensis</i>		NBRC 115909 ^T	LC775089	LC775092
<i>S. neotropicalis</i>		CBS 12811 ^T	KC776265	NR_160316
<i>S. opuntiae</i>		UFMG-CM-Y286 ^T = CBS 13466	MG564473	MG066593
<i>S. reginensis</i>		CLIB 1634 ^T = CBS 15247	LN870357	LN870338
<i>S. scarabaei</i>		NYNU 15821 ^T = CBS 14174	KU128729	KU128718
<i>S. vitae</i>		UWOPS 00-107.2 ^T = CBS 15147	KX418642	KX418642
<i>Starmerella sp.</i>		\	MG980067	MG980067
<i>Starmerella cellae</i> clade				
<i>S. camargoi</i>		UFMG-CM-Y595 ^T = CBS 14130	KR232373	KU710345
<i>S. cellae</i>		CBS 10086 ^T = NRRL Y-27860	KY106391	KY102026
<i>S. etchellsii</i>		JCM 8066 ^T = NRRL Y-17084 = CBS 1750	U45723	KY102077

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>S. floris</i>		CBS 10593 ^T = NRRL Y-48255	KY106449	NR_155820
<i>S. khaoyaiensis</i>		CBS 10839 ^T = NBRC 104213	NG_060812	NR_155821
<i>S. kourouensis</i>		CLIB 1707 ^T	LN909483	LN909469
<i>S. meliponinorum</i>		UWO(PS)00-227.1 ^T = CBS 9117	AF313354	KY105547
<i>S. ratchasimensis</i>		CBS 10611 ^T	KY106719	KY102359
<i>S. roubikii</i>		UWOPS 01-191 ^T = CBS 15148	AY257050	MF668211
<i>Starmerella stellata</i> clade				
<i>S. bacillaris</i>		PYCC 3044 ^T = CBS 834	KY106894	KY102524
<i>S. bacillaris</i>	<i>Candida zemplinina</i>	CBS 9494 ^T	HE657235	\
<i>S. davenportii</i>		CBS 9069 ^T	KY106407	NR_155815
<i>S. lactis-condensi</i>		NRRL Y-1515 ^T = CBS 52 ^T = JCM 9472	U45724	KY102179
<i>S. stellata</i>		CBS 157 ^T = NRRL Y-1446	NG_060828	NR_155771
<i>S. vitis</i>		CBS 16418 ^T	KC992848	MN317383
<i>Starmerella sirachaensis</i>		CBS 12094 ^T = NBRC 108605	KY106758	KY102396
<i>Candida</i> sp.		CBS 4353	AY574387	\
<i>Candida</i> sp.		R-55246	LT631806	\
<i>Candida</i> sp.		AS2.4033	FJ613525	FJ61352
<i>Starmerella</i> sp.		2-1361	JX515983	JX515984
<i>Starmerella</i> sp.		UFMG-CM-Y6313	MG732918	\
<i>Starmerella</i> sp.		ST1-01	AB294245	\
<i>Sugiyamaella</i>				
<i>S. amazoniana</i>		UFMG-CM-Y6922 ^T	MZ254647	MZ261923
		NRRL YB-2067 ^T = ATCC MYA-4662 = CBS 10352	NG_055322	NR_137759
<i>S. americana</i>				
<i>S. ayubii</i>		UFMG CM-Y607 ^T = CBS 14108	KR184132	NR_155796
<i>S. bahiana</i>		UFMG CM-Y304 ^T = CBS 13474	NG_059957	NR_155810
<i>S. bielyi</i>		UFMG CM-Y607 ^T = CBS 14108	MZ254646	MZ261922
<i>S. bonitensis</i>		UFMG CM-Y304 ^T = CBS 13474	KT006004	NR_155798
<i>S. boreocaroliniensis</i>		NRRL YB-1835 ^T = CBS 10344	KY106370	NR_165963
<i>S. bullrunensis</i>		UFMGCMY6921 ^T	NG_055380	NR_111543

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>S. carassensis</i>		UFMG CM-Y608 ^T = CBS 14270	KX550111	NR_155808
<i>S. castrensis</i>		NRRL Y-17329 ^T = CBS 8172	NG_042425	NR_111229
<i>S. chiloensis</i>		NRRL Y-17646 ^T = JCM 9583 = CBS 8168	NG_055306	NR_156607
<i>S. chuxiongensis</i>		NYNU 181038 ^T = CBS 16006 = CICC 33361	MK682795	MK682800
<i>S. cylindrica</i>		NYNU 201067 ^T	MW368731	MW368732
<i>S. floridensis</i>		NRRL YB-3827 ^T = CBS 10350	NG_042435	NR_111230
<i>S. grinbergsii</i>		NRRL Y-27117 ^T = CBS 5924	KY106484	NR_165964
<i>S. japonica</i>		NRRL YB-2798 ^T = CBS 10354	NG_042432	NR_111239
<i>S. ligni</i>		NRRL YB-1835 ^T = CBS 10344	KX550112	KX550112
<i>S. lignohabitans</i>		NRRL YB-1473 ^T = CBS 10342	DQ438198	DQ911444
<i>S. marilandica</i>		NRRL YB-1847 ^T = CBS 10346	KY106556	NR_165965
<i>S. marionensis</i>		NRRL YB-1336 ^T = CBS 10341	NG_042427	NR_111237
<i>S. mastotermitis</i>		CBS 14182 ^T	NG_058230	NR_156606
<i>S. neomexicana</i>		NRRL YB-2450 ^T = CBS 10349	KY106598	NR_165966
<i>S. novakii</i>		NRRL Y-27346 ^T = CBS 8402	KY106607	NR_111235
<i>S. paludigena</i>		NRRL Y-12697 ^T = CBS 8005	NG_042424	NR_111236
<i>S. pinicola</i>		NRRL YB-2263 ^T	DQ438200	NR_155810
<i>S. qingdaonensis</i>		CBS 11390 ^T = AS2.4031	FJ613527	KY102352
<i>S. robnettieae</i>		NYNU 201066 ^T	MW368701	MW368730
<i>S. smithiae</i>		NRRL Y-17850 ^T = CBS 7522	DQ438218	KY105568
<i>S. trypani</i>		WA 67193 ^T	MK387312	MK388412
<i>S. valenteae</i>		UFMG CM-Y609 ^T = CBS 14109	KT005999	NR_155797
<i>S. valdiviana</i>		NRRL Y-7791 ^T = CBS 5721	KY106859	NR_111544
<i>S. xiaguanensis</i>		NYNU 161041 ^T = CBS 14696	KY213817	KY213802
<i>S. xylanicola</i>		UFMG-CA-32 ^T = CBS 12683	JX487183	KC493642
<i>S. xylolytica</i>		UFMG-CM-Y348 ^T = CBS 13493	KF889433	KU214874
<i>S. yunnanensis</i>		NYNU 161059 ^T = CBS 14701	MT257257	MT257259
<i>Sugiyamaella</i> sp.		UFMG-CM-Y6964	MZ264216	MZ264217
<i>Sugiyamaella</i> sp.		BG090816.9.10.1A.3.19	JN805467	\
<i>Candida</i> sp.		CBS 10848	EU570112	\

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Candida</i> sp.		GA3M12	FJ873524	FJ873593
<i>Candida</i> sp.		SD4S01	EF653948	\
<i>Candida</i> sp.		CBS 10852	EU570106	EU570107
<i>Candida</i> sp.		CBS 10851	EU570114	EU570115
<i>Candida</i> sp.		BG02-3-7-5-1-2	AY390774	\
<i>Candida</i> sp.		GY43S04	FJ527154	FJ873425
<i>Candida</i> sp.		NCAIM Y.01893	GQ258822	\
<i>Tardiomyces</i> gen. nov.				
<i>T. blankii</i> comb. nov.	<i>Tardiomyces blankii</i>	NRRL Y-17068 ^T = CBS 1898	NG_055179	NR_111312
<i>T. depauwii</i> sp. nov.	<i>Tardiomyces depauwii</i>	CBS 18495 ^T	genome	genome
<i>T. digboiensis</i> comb. nov.	<i>Tardiomyces digboiensis</i>	CBS 9800 ^T	KY106417	KY102051
<i>Trichomonascus</i>				
<i>Trichomonascus apis</i>		CBS 10922 ^T = NRRL Y-48475	KY109911	KY105699
<i>Trichomonascus ciferrii</i>	<i>Stephanoascus ciferrii</i>	CBS 4856 ^T	KY109914	KY105703
<i>Trichomonascus petasosporus</i>		NRRL YB-2092 ^T = CBS 9602	JQ689064	KY105704
<i>Trichomonascus vanleenenianus</i>		CBS 14902 ^T	MG986492	MG986487
<i>Westerdijkia</i> gen. nov. (single-species lineage <i>Candida sungouii</i>)				
<i>W. sungouii</i> sp. nov.	<i>Candida sungouii</i>	CBS 13907 ^T	NG_055228	KM384539
<i>Candida</i> sp.		BG02-7-18-018A-2-2	AY520408	\
<i>Zygoascus</i>				
<i>Z. biomembranicola</i>		JCM 31007 ^T = CBS 14158 = CBS 14157	LC060997	NR_156007
<i>Z. bituminiphila</i>		NRRL Y-27974 ^T = CBS 8813	NG_055308	NR_137545
<i>Z. detingensis</i>		NYNU 201087 ^T	MW368733	MW374088
<i>Z. flipseniorum</i>		CBS 14876 ^T	MF695078	MF695077
<i>Z. hellenicus</i>		NRRL Y-7136 ^T = CBS 5839	NG_055323	NR_111258
<i>Z. meyeriae</i>		CBS 4099 ^T = NRRL Y-17319	KY110225	KY106013
<i>Z. polysorbophila</i>		NRRL Y-27161 ^T	NG_064312	NR_160311
<i>incertae sedis</i> in <i>Dipodascomycetes</i>				
<i>Dengshuqunia</i> gen. nov. (single-species lineage <i>Candida hispaniensis</i>)				
<i>D. hispaniensis</i> comb. nov.	<i>Candida hispaniensis</i>	CBS 9996 ^T = NRRL Y-5580	KY106499	KY102133

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Yarrowia</i> ' sp.		VR571	KU570469	\
<i>Yarrowia</i> ' sp.		VR572	KU570470	OM837194
<i>Yarrowia</i> ' sp.		VR546	KU570466	\
<i>Yarrowia</i> ' sp.		VR547	KU570467	\
<i>Nadsonia</i>				
<i>N. commutata</i>		NRRL Y-7950 ^T = CBS 6640	U73598	NR_154249
<i>N. fulvescens</i> var. <i>elongata</i>		NRRL Y-1568 ^T = CBS 2594	U94942	KY104309
<i>N. fulvescens</i> var. <i>fulvescens</i>		NRRL Y-12810 ^T = CBS 2596	JQ689059	KY104312
<i>N. starkeyi-henricii</i>		CBS 2159 ^T = NRRL YB-3963	NG_055214	KY105364
the single-species lineage <i>Candida tunisiensis</i>				
<i>Candida tunisiensis</i>		CBS 12513 ^T	KY106854	KY102485
<i>Yarrowia</i>				
<i>Y. alimentaria</i>		NRRL Y-48253 ^T = CBS 10151	NG_058277	NR_151793
<i>Y. brassicae</i> sp. nov.	<i>Yarrowia brassicae</i>	NYNU17218 ^T = CBS 15225	MF136065	MF136067
<i>Y. bubula</i>		NCAIM Y.01998 ^T = CBS 12934	NG_059943	NR_155999
<i>Y. deformans</i>		CBS 2071 ^T	KY110177	NR_161005
<i>Y. divulgata</i> sp. nov.	<i>Yarrowia divulgata</i>	CBS 11013 ^T	NG_058444	NR_156000
<i>Y. galli</i>		CBS 9722 ^T	KY106459	NR_077078
<i>Y. hollandica</i>		CBS 4855 ^T	NG_058982	NR_151802
<i>Y. keelungensis</i> sp. nov.	<i>Yarrowia keelungensis</i>	CBS 11062 ^T	NG_064314	NR_160312
<i>Y. lipolytica</i>		NRRL YB-423 ^T = CBS 6124	JQ689067	KY105973
<i>Y. osloensis</i>		CBS 10146 ^T	NG_058984	NR_151804
<i>Y. parophoni</i>		CBS 12427 ^T	NG_075176	NR_173711
<i>Y. phangngaensis</i> sp. nov.	<i>Yarrowia phangngaensis</i>	CBS 10407 ^T = ATCC MYA-4467	FJ196734	NR_111357
<i>Y. porcina</i>		NCAIM Y.02100 ^T = CBS 12935	NG_066361	NR_164526
<i>Y. yakushimensis</i>		CBS 10254 ^T	AM268474	AM279262
<i>Yarrowia</i> sp.		KBP:Y-7314	OR582607	\
Uncultured <i>Yarrowia</i>		clone Nves *B08	KF419465	\
Uncultured <i>Yarrowia</i>		clone Name *25	KF419434	\
Uncultured <i>Yarrowia</i>		clone Name *40	KF419445	\

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Pichiomyces</i>				
<i>Pichiales</i>				
<i>Cephalosascaceae</i>				
<i>Cephalosascus</i>				
<i>C. albidus</i>		CBS 389.77 ^T	MH872847	MH861079
<i>C. fragrans</i>		CBS 121.29 ^T = NRRL Y-6742	NG_063972	NR_159763
<i>Pichiaceae</i>				
<i>Allodekkera</i>				
<i>A. sacchari</i>		JCM 18455 ^T = CBS 14167	KY432360	NR_153584
<i>Ambrosiozyma</i>				
<i>A. ambrosiae</i>		NRRL Y-7524 ^T = CBS 6003	U73605	NR_153563
<i>A. angophorae</i>		NRRL Y-7118 ^T = CBS 5823	NG_055197	NR_153564
<i>A. cicatricosa</i>		NRRL Y-17594 ^T = CBS 6157	U40128	NR_153565
<i>A. kamigamensis</i>		NRRL Y-63629 ^T = JCM 15019 = CBS 10899	NG_055216	KY101638
<i>A. kashinagacola</i>		NRRL Y-63631 ^T = CBS 10903	KF061197	KY101639
<i>A. llanquihuensis</i>		NRRL Y-17657 ^T = CBS 8128	NG_055194	NR_153567
<i>A. maleeae</i>		NRRL Y-63635 ^T = CBS 11900	KF061198	KY101641
<i>A. monospora</i>		NRRL Y-1484 ^T = CBS 2554	EU011590	NR_153569
<i>A. neoplatypodis</i>		NRRL Y-63630 ^T = CBS 10900	NG_055217	KY101645
<i>A. oregonensis</i>		NRRL Y-6106 ^T = CBS 5560	NG_056814	NR_153571
<i>A. philentoma</i>		NRRL Y-7523 ^T = CBS 6276	NG_055200	NR_153572
<i>A. platypodis</i>		NRRL Y-6732 ^T = CBS 4111	U40083	NR_153573
<i>A. pseudovanderkliftii</i>		NR_R Y-63632 ^T = CBS 10904	NG_055220	NR_153574
<i>A. vanderkliftii</i>		NRRL Y-63633 ^T = CBS 10905	NG_055221	NR_153575
<i>Ambrosiozyma</i> sp.		Lym1-4	LC586258	LC718469
<i>Ambrosiozyma</i> sp.		NRRL Y-6106	EU011596	\
<i>Ambrosiozyma</i> sp.		UWOPS 01-647.2	OQ676562	\
<i>Ambrosiozyma</i> sp.		HD1-5-1	LC718445	LC718458
<i>Ambrosiozyma</i> sp.		Lym1-7	LC586259	LC718470
<i>Candida wuzhishanensis</i>	<i>Candida wuzhishanensis</i>	CBS 10850 ^T	EU570110	EU570111

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Candida</i> sp.		JW01-7-11-1-4-y2	AY242326	\
<i>Candida</i> sp.		ST-246	DQ404487	\
<i>Candida</i> sp.		JCM 15018	AB291684	\
<i>Candida</i> sp.		JCM 16747	AB552927	\
Brettanomyces				
<i>B. acidodurans</i>		NCAIM Y.02178 ^T = CBS 14519	NG_055168	KX792141
<i>B. anomalus</i>		NRRL Y-17522 ^T = CBS 8139	U84244	NR_138183
<i>B. custersianus</i>		NRRL Y-6653 ^T = CBS 4805	U76199	NR_165960
<i>B. bruxellensis</i>		NRRL Y-12961 ^T = CBS 74	JQ689028	NR_165974
<i>B. naardenensis</i>		NRRL Y-17526 ^T = CBS 6042	U76200	NR_165961
<i>B. nana</i>		NRRL Y-17527 ^T = CBS 1945	U76197	NR_153642
Citeromyces				
<i>C. cibodasensis</i>		NBRC 110244 ^T = InaCC Y703	LC015650	LC060677
<i>C. hawaiiensi</i>		NRRL Y-11581 ^T	NG_055053	JN016711
<i>C. matritensis</i>		IFO 0954 ^T	KY106924	KY102552
<i>C. nyonsensis</i>		CLIB 1303 ^T	NG_055051	NR_154768
<i>C. siamensis</i>		IFO 11052 ^T	NG_055012	JN016715
Komagataella				
<i>K. kurtzmanii</i>		VKPM Y-727 ^T	NG_060295	NR_164523
<i>K. mondaviorum</i>		CBS 15017 ^T	MF276795	MF276791
<i>K. pastoris</i>		ATCC 28485 ^T	JQ689069	NR_164380
<i>K. phaffii</i>		NRRL Y-7556 ^T	EF550256	NR_164378
<i>K. populi</i>		NRRL YB-455 ^T	JN234404	JQ398744
<i>K. pseudopastoris</i>		NRRL Y-27603 ^T	EF550255	NR_163279
<i>K. ulmi</i>		CBS 12361 ^T	JN234403	JQ398746
Kregervanrija				
<i>K. delftensis</i>		NRRL Y-7119 ^T = CBS 2614	KY108168	KY103893
<i>K. fluxuum</i>		NRRL YB-4273 ^T = CBS 2287	EF550268	KY103903
<i>K. pseudodelftensis</i>		NRRL Y-5494 ^T = CBS 10105	KY108177	KY103905
Kuraishia				

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>K. borneana</i>		CBS 12507 ^T	JQ001938	JQ038035
<i>K. capsulata</i>		NRRL Y-1842 ^T = CBS 1993	EF550270	KY103911
<i>K. cidri</i>		NRRL Y-27078 ^T = CBS 4241	AF245402	KY103912
<i>K. floccosa</i>		NRRL Y-27951 ^T = CBS 10307	KM065899	KY103913
<i>K. hungarica</i>		NRRL Y-27594 ^T	NG_055192	EU722410
<i>K. mediterranea</i>		CBS 15107 ^T	HE799687	HE799687
<i>K. molischiana</i>		NRRL Y-27899 ^T = CBS 9993	NG_058325	NR_164409
<i>K. ogatae</i>		NRRL Y-48474 ^T = CBS 10924	KM065903	NR_155244
<i>K. piskuri</i>		NRRL YB-2544 ^T = CBS 13714	NG_055227	NR_155218
<i>Martiniozyma</i>				
<i>M. abiesophila</i>		NRRL Y-11514 ^T = CBS 5366	NG_066352	NR_161000
<i>M. asiatica</i>		CBS 10863 ^T = NRRL Y-63747	NG_055167	NR_154199
<i>Candida</i> sp.		BG02-7-17-007A-1-1	AY520359	\
<i>Nothofagozyma</i> gen. nov. (single-species lineage <i>Candida chilensis</i>)				
<i>N. chilensis</i> comb. nov.	<i>Candida chilensis</i>	NRRL Y-7790 ^T = CBS 5719	U45821	KY102029
<i>Candida</i> cf. <i>chilensis</i>		CBS 11766	FN824503	\
<i>Ogataea sensu stricto</i>				
<i>O. allantospora</i>		CBS 10576 ^T = NRRL Y-48267	KY108668	KY104390
<i>O. angusta</i>		NRRL Y-2214 ^T = CBS 7073	EF550269	KY104391
<i>O. chonburiensis</i> sp. nov.	<i>Ogataea chonburiensis</i>	CBS 10363 ^T	KY108671	KY104393
<i>O. chumphonensis</i> sp. nov.	<i>Candida chumphonensis</i>	CBS 12096 ^T	NG_060803	NR_155569
<i>O. deakii</i> sp. nov.	<i>Ogataea deakii</i>	NCAIM Y.01896 ^T = CBS 12735	NG_060259	NR_156550
<i>O. dorogensis</i>		NRRL Y-27599 ^T = CBS 9260	NG_055143	NR_155586
<i>O. haglerorum</i>		VKPM Y-2583 ^T = CBS 14645	NG_058451	NR_155603
<i>O. histrianica</i> sp. nov.	<i>Ogataea histrianica</i>	ZIM2463 ^T = NRRL Y-63658 = CBS 12779	HE799677	NR_155556
<i>O. kodamae</i>		NRRL Y-17234 ^T = CBS 7081	KY108676	KY104400
<i>O. kolombanensis</i> sp. nov.	<i>Ogataea kolombanensis</i>	NRRL Y-63657 ^T = ZIM2322 = CBS 12778	NG_055164	NR_155557
<i>O. mangiferae</i>		UFMG-CM-Y253 ^T = CBS 13492	KF585022	KF585022
<i>O. mattraensis</i> sp. nov.	<i>Candida mattraensis</i>	CBS 12097 ^T	NG_060815	NR_155572
<i>O. minuta</i>		NRRL Y-411 ^T = CBS 1708	U75515	genome

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>O. nakhonphanomensis sp. nov.</i>	<i>Ogataea nakhonphanomensis</i>	ATCC MYA-4463 ^T = CBS 10362	NG_042512	NR_111420
<i>O. nonfermentans</i>		NRRL YB-2203 ^T = CBS 5764	KY108687	KY104413
<i>O. paradorogensis</i>		NBRC100261 ^T = CBS 10978	NG_055082	NR_137524
<i>O. parapolyomorpha</i>		CBS 12304 ^T = ATCC 26012	NG_058360	NR_165981
<i>O. philodendri</i>		NRRL Y-7210 ^T = CBS 6075	NG_058361	NR_155594
<i>O. phyllophila sp. nov.</i>	<i>Ogataea phyllophila</i>	CBS 12095 ^T	NG_058362	NR_155595
<i>O. polymorpha</i>		NRRL Y-5445 ^T = CBS 4732	KY108707	KY104435
<i>O. siamensis sp. nov.</i>	<i>Ogataea siamensis</i>	CBS 10095 ^T	KY108716	NR_111421
<i>O. thermomethanolica sp. nov.</i>	<i>Ogataea thermomethanolica</i>	CBS 10098 ^T = NRRL Y-27981	KY108717	KY104445
<i>O. thermophila sp. nov.</i>	<i>Candida thermophila</i>	NRRL Y-27863 ^T = CBS 11284	DQ402185	KY102443
<i>O. uvarum</i>		CBS 12829 ^T	KY971684	HE965024
<i>O. xylosterini comb. nov.</i>	<i>Candida xylosterini</i>	CBS 11547 ^T = ATCC 62898	KY106891	KY102251
<i>Ogataea saltuana</i> subclade				
<i>O. corticis</i>		NBRC 1794 ^T	NG_055087	NR_137525
<i>O. ganodermae sp. nov.</i>	<i>Ogataea ganodermae</i>	CBS 10646 ^T	NG_058359	NR_138174
<i>O. glucozyma</i>		NRRL YB-2185 ^T = CBS 5766	EU011626	KY104398
<i>O. henricii</i>		NRRL YB-2194 ^T = CBS 5765	KY108675	KY104399
<i>O. krabiensis sp. nov.</i>	<i>Candida krabiensis</i>	CBS 10097 ^T = NRRL Y-27965	KY106540	KY102173
<i>O. nemodendra comb. nov.</i>	<i>Candida nemodendra</i>	NRRL Y-7779 ^T = CBS 6280	U70246	KY102228
<i>O. neopini</i>		ATCC 28781 ^T = CBS 5435	NG_055085	NR_137643
<i>O. ortonii sp. nov.</i>	<i>Candida ortonii</i>	CBS 8843 ^T = NRRL Y-48038	KY106637	KY102275
<i>O. pini</i>		NRRL Y-11528 ^T = JCM 3655 = CBS 744	KY108701	KY104429
<i>O. saltuana</i>		NCAIM Y.01833 ^T = CBS10795 = NRRL Y-48448	NG_055162	NR_137064
<i>O. zsoltii</i>		NRRL Y-27601 ^T = CBS 9262	KY108723	NR_138176
<i>Ogataea sp.</i>		NRRL YB-2437	genome	genome
<i>Ogataea pilisensis</i> subclade				
<i>O. arabinofermentans comb. nov.</i>	<i>Candida arabinofermentans</i>	NRRL YB-2248 ^T = CBS 8468	NG_055150	NR_155568
<i>O. cecidiorum</i>		CBS 11522 ^T	NG_058358	NR_155585
<i>O. degrootiae</i>		CBS 15033 ^T	NG_068257	NR_168172
<i>O. methanolica</i>		NRRL Y-7685 ^T = CBS 6515 = JCM 10240	JQ689008	KY104403

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>O. nitratoaversa</i>		NRRL Y-48449 ^T = CBS 10796	KY108686	KY104412
<i>O. ovalis comb. nov.</i>	<i>Candida ovalis</i>	NRRL Y-17662 ^T = CBS 7298	U70248	KY102280
<i>O. paraovalis</i>		NYNU167106 ^T = CBS 14697	KY213806	KY213805
<i>O. piceae comb. nov.</i>	<i>Candida piceae</i>	NRRL YB-2107 ^T = CBS 8701	KY106691	KY102332
<i>O. pignaliae</i>		NRRL Y-17664 ^T = JCM 9836 = CBS 6071	KY108695	KY104422
<i>O. pilisensis</i>		NRRL Y-27598 ^T = CBS 9259	KY108696	KY104423
<i>O. pinus comb. nov.</i>	<i>Candida pinus</i>	NRRL Y-2023 ^T = JCM 9826 = CBS 970	NG_055153	KY102335
<i>O. rishirensis comb. nov.</i>	<i>Candida rishirensis</i>	CBS 11662 ^T	KY106727	KY102366
<i>O. salicorniae</i>		NRRL Y-12834 ^T = CBS 8071	KY108715	KY104443
<i>O. sithepensis sp. nov.</i>	<i>Candida sithepensis</i>	CBS 10096 ^T = JCM 12265	KY106759	KY102397
<i>O. sonorensis comb. nov.</i>	<i>Candida sonorensis</i>	NRRL Y-7800 ^T = CBS 6792	U70185	KY102404
<i>O. trehalophila</i>		NRRL Y-6781 ^T = CBS 5361	KY108719	KY104447
<i>Ogataea wickerhamii</i> subclade				
<i>O. kanchanaburiensis sp. nov.</i>	<i>Ogataea kanchanaburiensis</i>	CBS 12673 ^T	AB734090	NR_138178
<i>O. maris comb. nov.</i>	<i>Candida maris</i>	NRRL Y-6696 ^T = CBS 5151	U70181	KY102191
<i>O. populialbae</i>		CBS 11363 ^T = NRRL Y-48632	NG_058363	NR_155597
<i>O. trehaloabstinens</i>		NRRL Y-27595 ^T = CBS 9256	KY108718	genome
<i>O. wickerhamii</i>		NRRL YB-4943 ^T = CBS 4307	KY108721	KY104449
<i>Ogataea sp.</i>		NRRL YB-2442	genome	genome
<i>Pichia</i>				
<i>P. awuae sp. nov.</i>	<i>Candida awuae</i>	CBS 11011 ^T	KY106314	NR_151796
<i>P. barkeri</i>		NRRL Y-17350 ^T = CBS 7256	U75735	NR_153283
<i>P. bovicola</i>		DMKU-MP6-4 ^T = TBRC 15616	MZ322503	MZ841616
<i>P. bruneiensis sp. nov.</i>	<i>Pichia bruneiensis</i>	CBS 12611 ^T	JQ692181	JX112045
<i>P. cactophila</i>		NRRL Y-10963 ^T = CBS 6926	U75731	KY104514
<i>P. californica</i>		CBS 989 ^T	KY106378	KY102011
<i>P. cecembensis</i>		NRRL Y-27985 ^T = CBS 10445	KY108786	NR_164078
<i>P. cephalocereana</i>		NRRL Y-17225 ^T = CBS 7273	U75737	NR_153285
<i>P. chibodasensis sp. nov.</i>	<i>Pichia chibodasensis</i>	NBRC 111569 ^T	NG_055170	NR_153305
<i>P. deserticola</i>		NRRL Y-12918 ^T = CBS 7119	U75734	NR_077085

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>P. dushanensis sp. nov.</i>	<i>Pichia dushanensis</i>	CBS 13912 ^T	NG_064367	NR_160321
<i>P. eremophila</i>		NRRL Y-17224 ^T = CBS 7272	NG_055120	NR_153287
<i>P. ethanolica</i>		NRRL Y-12615 ^T = CBS 8041	U71073	KY102081
<i>P. exigua</i>		NRRL Y-10920 ^T = CBS 6836	KY108791	KY104525
<i>P. fermentans</i>		NRRL Y-1619 ^T = CBS 187	U75726	KY104545
<i>P. galeolata</i>		NRRL Y-64187 ^T = CBS 16864	OL583873	OL583853
<i>P. garciniae</i>		CBS 10758 ^T	NG_058374	NR_153289
<i>P. gijzeniarum</i>		CBS 15024 ^T	NG_068258	NR_168173
<i>P. heedii</i>		NRRL Y-10967 ^T = CBS 6930	U75733	KY104553
<i>P. inconspicua</i>		NRRL Y-2029 ^T = CBS 180	U71062	KY102148
<i>P. insulana sp. nov.</i>	<i>Pichia insulana</i>	CBS 11169 ^T	NG_055166	KM252834
<i>P. kluyveri</i>		NRRL Y-11519 ^T = CBS 188	U75727	NR_138210
<i>P. kurtzmaniana</i>		CGMCC 2.7213 ^T	OR258060	OR258060
<i>P. kudriavzevii</i>		NRRL Y-7551 ^T = CBS 5147	KY108833	KY104577
<i>P. mandshurica</i>		CBS 209 ^T	KY108860	KY104597
<i>P. membranifaciens</i>		NRRL Y-2026 ^T = CBS 107	EF550227	NR_111195
<i>P. nakasei</i>		NRRL Y-7686 ^T = CBS 5141	U75728	KY104634
<i>P. nanzhaoensis</i>		NYNU178136 ^T = CBS 15346	MG255700	MG255719
<i>P. norvegensis</i>		NRRL Y-7687 ^T = CBS 6564	U75730	KY104635
<i>P. occidentalis</i>		NRRL Y-7552 ^T = CBS 5459	NG_055110	genome
<i>P. paraexigua</i>		NYNU178135 ^T = CBS 15237	MG255712	MG255726
<i>P. phayaonensis sp.nov.</i>	<i>Pichia phayaonensis</i>	NBRC 108868 ^T	AB557865	AB704714
<i>P. pseudocactophila</i>		NRRL Y-17239 ^T = CBS 6929	U75732	genome
<i>P. pseudolambica</i>		NRRL Y-17318 ^T = CBS 2063	U71063	KY102346
<i>P. rugopelliculosa</i>		NRRL Y-17079 ^T = CBS 6377	U71069	KY102367
<i>P. scutulata</i>		NRRL Y-7663 ^T = CBS 6670	KY108916	KY104645
<i>P. sporocuriosa</i>		NRRL Y-27347 ^T = CBS 8806	NG_055107	KY104647
<i>P. thaimueangensis</i>		NRRL Y-27416 ^T = CBS 10360	KY106806	KY102439
<i>Pichia terricola</i> clade				
<i>P. cabralensis</i>		CBS 11679 ^T	NG_055163	NR_153279

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>P. terricola</i>		NRRL YB-4310 ^T = CBS 2617	KY108920	NR_153295
<i>P. sorboxylosa</i> comb. nov.	<i>Candida sorboxylosa</i>	NRRL Y-17669 ^T = CBS 6378	EF550253	genome
<i>Ramirezia</i> gen. nov.				
<i>R. boidinii</i> comb. nov.	<i>Candida boidinii</i>	NRRL Y-2332 ^T = CBS 2428	JQ689009	NR_164406
<i>Candida boidinii</i>		ATCC 62809	\	FJ914929
<i>Candida boidinii</i>		392a	\	PQ865360
<i>Candida boidinii</i>		392b	\	PQ865361
<i>Candida boidinii</i>		392e	\	PQ865362
<i>Candida boidinii</i>		3Y79	\	MT131300
<i>Candida boidinii</i>		4035	\	KJ794107
<i>Candida boidinii</i>		ATCC MYA-4485	\	FJ196791
<i>Candida boidinii</i>		AUMC10756	\	KY445950
<i>Candida boidinii</i>		B4M1030AL6F	\	PV240593
<i>Candida boidinii</i>		B4S1030BL4F	\	PV240610
<i>Candida boidinii</i>		B4S1030CL3F	\	PV240617
<i>Candida boidinii</i>		CB15	\	KP281424
<i>Candida boidinii</i>		CB3	\	KP281427
<i>Candida boidinii</i>		CB6	\	KP281426
<i>Candida boidinii</i>		CBS 2429	\	KY101976
<i>Candida boidinii</i>		CBS 3092	\	KY101986
<i>Candida boidinii</i>		CBS 5777	\	KY101983
<i>Candida boidinii</i>		CBS 6056	\	KY101981
<i>Candida boidinii</i>		CBS 6202	\	KY101993
<i>Candida boidinii</i>		CBS 6368	\	KY101988
<i>Candida boidinii</i>		CBS 6510	\	KY101973
<i>Candida boidinii</i>		CBS 6774	\	KY101980
<i>Candida boidinii</i>		CBS 6990	\	KY101987
<i>Candida boidinii</i>		CBS 7063	\	KY101977
<i>Candida boidinii</i>		CBS 7299	\	KY101991
<i>Candida boidinii</i>		CBS 7447	\	KY101989

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Candida boidinii</i>		CBS 7778	\	KY101975
<i>Candida boidinii</i>		CBS 8030	\	KY101995
<i>Candida boidinii</i>		CBS 8051	\	KY101978
<i>Candida boidinii</i>		CBS 8052	\	KY101974
<i>Candida boidinii</i>		CBS 8106	\	KY101985
<i>Candida boidinii</i>		CBS 8251	\	KY101979
<i>Candida boidinii</i>		CBS 8567	\	KY101984
<i>Candida boidinii</i>		CBS 8568	\	KY101992
<i>Candida boidinii</i>		CBS 8569	\	KY101994
<i>Candida boidinii</i>		cl/MP/12	\	PV670455
<i>Candida boidinii</i>		cl/MP/2K	\	PV670452
<i>Candida boidinii</i>		cl/MP/3M	\	PV670453
<i>Candida boidinii</i>		cl/MP/6K	\	PV670454
<i>Candida boidinii</i>		clone ADR12	\	PV590121
<i>Candida boidinii</i>		CM65	\	MG817595
<i>Candida boidinii</i>		CM67	\	MG817594
<i>Candida boidinii</i>		DBMY178	\	KJ706396
<i>Candida boidinii</i>		DBMY338	\	KJ706555
<i>Candida boidinii</i>		DBMY497	\	KJ706714
<i>Candida boidinii</i>		DBMY656	\	KJ706873
<i>Candida boidinii</i>		DF130	\	MW895348
<i>Candida boidinii</i>		DF139B	\	MW895349
<i>Candida boidinii</i>		DF149	\	MW895351
<i>Candida boidinii</i>		EJ28	\	MW895259
<i>Candida boidinii</i>		fo/BM/03	\	PV686764
<i>Candida boidinii</i>		fo/MP/01	\	PV686765
<i>Candida boidinii</i>		fo/MP/03	\	PV686766
<i>Candida boidinii</i>		G1AL001	\	ON077142
<i>Candida boidinii</i>		IST 473	\	OQ092419
<i>Candida boidinii</i>		IST 509	\	OQ092420

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Candida boidinii</i>		IST 592	\	OQ092421
<i>Candida boidinii</i>		IST 599	\	OQ092422
<i>Candida boidinii</i>		IST 600	\	OQ092423
<i>Candida boidinii</i>		IST 605	\	OQ092424
<i>Candida boidinii</i>		J4 e	\	PV471499
<i>Candida boidinii</i>		K65	\	MT889808
<i>Candida boidinii</i>		KL-1	\	KF699345
<i>Candida boidinii</i>		KLG-036	\	PQ055828
<i>Candida boidinii</i>		L21	\	ON038416
<i>Candida boidinii</i>		LL11 101	\	KF057593
<i>Candida boidinii</i>		LL11 121	\	KF057615
<i>Candida boidinii</i>		LL11 142	\	KF057723
<i>Candida boidinii</i>		LR20	\	ON716452
<i>Candida boidinii</i>		MV44	\	MW895261
<i>Candida boidinii</i>		NTOU 4959	\	MZ422941
<i>Candida boidinii</i>		P35-1B	\	MW895883
<i>Candida boidinii</i>		PH13	\	MW895262
<i>Candida boidinii</i>		PH29	\	MW895263
<i>Candida boidinii</i>		PMM10-1634L	\	KP132263
<i>Candida boidinii</i>		PYCC 4993	\	OL415600
<i>Candida boidinii</i>		S60 ITI	\	MT875270
<i>Candida boidinii</i>		ST18	\	MW895265
<i>Candida boidinii</i>		ST6	\	MW895260
<i>Candida boidinii</i>		UCDFST 09-399	\	MH595392
<i>Candida boidinii</i>		UCDFST 11-630	\	MH595368
<i>Candida boidinii</i>		UCDFST 70-104	\	MH595275
<i>Candida boidinii</i>		UCDFST 78-95	\	MH595233
<i>Candida boidinii</i>		WC91-1	\	EF197945
<i>Candida boidinii</i>		yHKS467	\	KM384039
<i>Candida boidinii</i>		yHRVM68	\	OK052465

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Candida</i> sp.		MYf128	\	KX079903
<i>Candida</i> sp.		MYf155	\	KX079901
<i>Candida</i> sp.		MYf157	\	KX079899
Fungal <i>sp.</i>		MNFU072	\	OQ331085
Fungal <i>sp.</i>		MNFU073	\	OQ331084
<i>Saccharomycetales</i> sp.		LM233	\	EF060568
<i>Saccharomycetales</i> sp.		LM580	\	EF060866
<i>Saccharomycetales</i> sp.		LM621	\	EF060905
<i>Saccharomycetales</i> sp.		LM641	\	EF060925
<i>Saturnispora</i>				
<i>S. ahearnii</i>		NRRL Y-7555 ^T = CBS 6121	U94935	NR_155830
<i>S. besseyi</i>		NRRL YB-4711 ^T = CBS 6343	KY109540	NR_155831
<i>S. bothae</i>		CBS 13484 ^T	NG_064347	NR_160328
<i>S. diversa</i>		NRRL Y-5713 ^T = JCM 1848 = CBS 4074	KY109545	NR_119732
<i>S. dispersa</i>		NRRL Y-1447 ^T = CBS 794	JQ689027	NR_155832
<i>S. galanensis</i>		NYNU 1797 ^T = CBS 15223	MG255699	MG255730
<i>S. goslingensis</i>		NRRL Y-48718 ^T = CBS 11755	GU952248	NR_155833
<i>S. hagleri</i>		NRRL Y-27828 ^T	NG_058400	KY105319
<i>S. halmiae</i>		CBS 11009 ^T	DQ466525	genome
<i>S. kantuleensis</i>		DMKU PPS4-5 ^T = CBS 15217	NG_064447	NR_164565
<i>S. mangrovi</i>		CBS 15874 ^T	MH559121	MH559120
<i>S. mendoncae</i>		NRRL Y-11515 ^T = CBS 5620	KY109547	NR_155834
<i>S. quitensis</i>		NCYC3744 ^T = CBS 12184	FN908197	FN985101
<i>S. saitoi</i>		NRRL Y-6671 ^T = CBS 4910	U94932	NR_155835
<i>S. sanitii</i>		CBS 10864 ^T	NG_055080	NR_155836
<i>S. sekii</i>		CBS 10931 ^T	NG_055094	NR_164410
<i>S. serradocipensis</i>		UFMG DC-198 ^T	GU952247	NR_155777
<i>S. siamensis</i>		CBS 11022 ^T = NBRC 104878	NG_055084	\
<i>S. silvae</i>		NRRL Y-6725 ^T = CBS 5498	KY109554	NR_155837
<i>S. suwanaritii</i>		CBS 11021 ^T	NG_055083	\

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>S. zaruensis</i>		NRRL Y-7008 ^T = CBS 5799	U94933	NR_155838
<i>Wenyingozyma gen. nov.</i>				
<i>W. cellulolytica comb. nov.</i>	<i>Candida cellulolytica</i>	JCM 9397 ^T = NRRL Y-17856	U94928	KY102420
<i>W. methanosorbosa comb. nov.</i>	<i>Candida methanosorbosa</i>	NRRL Y-17320 ^T = CBS 7029	U70186	KY102211
<i>W. methylovora comb. nov.</i>	<i>Ogataea methylovora</i>	NRRL Y-17250 ^T = CBS 7300	KY108683	KY104408
<i>W. naganishii comb. nov.</i>	<i>Ogataea naganishii</i>	NRRL Y-7654 ^T = CBS 6429	KY108685	KY104410
<i>W. nanaspora comb. nov.</i>	<i>Candida nanaspora</i>	NRRL Y-17679 ^T = CBS 7200	U70187	KY102225
<i>W. neixiangensis comb. nov.</i>	<i>Ogataea neixiangensis</i>	NYNU16951 ^T = CBS 14695	KY213811	KY213810
<i>W. nitratophila comb. nov.</i>	<i>Candida nitratophila</i>	NRRL YB-3654 ^T = CBS 2027	U70180	KY102230
<i>W. ramenticola comb. nov.</i>	<i>Ogataea ramenticola</i>	NRRL YB-1985 ^T = CBS 8699	KY108713	KY104442
<i>W. succiphila comb. nov.</i>	<i>Candida succiphila</i>	NRRL Y-11998 ^T = JCM 9445 = CBS 8003	U70189	KY102421
<i>W. suzukii comb. nov.</i>	<i>Candida suzukii</i>	NRRL Y-27593 ^T = CBS 9253	KY106788	KY102423
<i>W. wangdongensis sp. nov.</i>	<i>Ogataea wangdongensis</i>	CBS 12674 ^T = KM 15	AB734092	NR_138179
<i>Ogataea sp.</i>		NRRL YB-1238	genome	genome
<i>Ogataea sp.</i>		NRRL Y-27166	genome	genome
<i>Ogataea sp.</i>		yHMJ1	genome	genome
<i>Ogataea sp.</i>		NRRL Y-27170	genome	genome
<i>Xiungozyma gen. nov.</i> (<i>Candida insectalens</i> clade)				
<i>X. insectalens comb. nov.</i>	<i>Candida insectalens</i>	NRRL Y-7778 ^T = JCM 9610 = CBS 6036	U62304	EU364562
<i>X. silvatica comb. nov.</i>	<i>Candida silvatica</i>	NRRL Y-7777 ^T = JCM 9828 = CBS 6277	U76201	KY102393
<i>Candida sp.</i>		JCM 15000 = CBS 10902	AB291677	\
Serinales				
Debaryomycetaceae				
Aciculoconidium				
<i>A. aculeatum</i>		NRRL YB-4298 ^T = CBS 5578	JQ689029	OW983919
<i>Candida sensu stricto</i>				
<i>C. albicans</i>		CBS 562 ^T = NRRL Y-12983N	U45776	NR_125332
<i>C. albicans</i>		CEC4854	AY342214	AY342214
<i>C. aquae-textoris</i>		DBVPG6732 ^T = CBS 7923	GU142862	KJ651205
<i>C. baotianmanensis sp. nov.</i>	<i>Candida baotianmanensis</i>	NYNU 14719 ^T = CBS 13915	KM586733	KM586734

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>C. buenavistaensis</i>		CBS 9895 ^T = NRRL Y-27734	KY106374	KY102007
<i>C. dubliniensis</i>		NRRL Y-17841 ^T = CBS 7987	U57685	NR_119386
<i>C. frijolesensis</i>		NRRL Y-48060 ^T = CBS 10377	NG_054802	NR_136989
<i>C. gigantensis</i>		CBS 9896 ^T = NRRL Y-27736	KY106465	KY102102
<i>C. kantuleensis</i>		CBS 15219 ^T	NG_066388	NR_164020
<i>C. labiduridarum</i>		CBS 10452 ^T = NRRL Y-27940	KY106543	KY102176
<i>C. maltosa</i>		NRRL Y-17677 ^T = CBS 5611	U45745	NR_138346
<i>C. neerlandica</i>		CBS 434 ^T = NRRL Y-27057	KY106596	KY102226
<i>C. pellucidi</i>		CBS 16171 ^T	MN908679	MN908679
<i>C. prachuapensis</i>		CBS 11024 ^T	NG_054767	\
<i>C. pseudoviswanathii</i> sp. nov.	<i>Candida pseudoviswanathii</i>	NYNU 14772 ^T = CBS 13916	KM586735	KM586736
<i>C. sanyaensis</i> sp. nov.	<i>Candida sanyaensis</i>	CBS 12637	NG_054829	NR_138302
<i>C. saraburiensis</i> sp. nov.	<i>Candida saraburiensis</i>	CBS 11696 ^T	KY106752	KY102390
<i>C. sojae</i>		NRRL Y-17909 ^T = JCM 1644 = CBS 7871	U71070	KY102400
<i>C. tetrigidarum</i>		ATCC MYA-4369 ^T	NG_042507	NR_111411
<i>C. tetrigidarum</i>		CBS 10457 ^T	KY106803	genome
<i>C. tropicalis</i>	<i>Candida vulgaris</i>	NRRL Y-12968 ^T = CBS 94	U45749	KY102470
<i>C. viswanathii</i>		NRRL Y-6660 ^T = JCM 9567 = CBS 4024	U45752	KY102515
<i>C. yunnanensis</i>		NYNU 17948 ^T = CBS 15276	MG255709	MG255721
<i>Candida</i> sp.		LN1	genome	genome
<i>Candida</i> sp.		LDI48194	genome	genome
<i>Debaryomyces</i>				
<i>D. apis</i>		CBS 16297 ^T	MN585723	MN585723
<i>D. castellii</i>		NRRL Y-7423 ^T = JCM 6177 = CBS 2923	NG_054864	NR_111306
<i>D. coudertii</i>		NRRL Y-7425 ^T = JCM 2387 = CBS 5167	U45846	KY103186
<i>D. fabryi</i>		NRRL Y-17914 ^T = JCM 2104 = CBS 5789	U94927	KY103198
<i>D. hansenii</i>		NRRL Y-7426 ^T = JCM 1990 = CBS 767	JQ689041	KY103230
<i>D. macquariensis</i>		CBS 5572 ^T	KY107564	KY103270
<i>D. maramus</i>		CBS 1958 ^T = JCM 1528 = NRRL Y-2171	KY107572	KY103271
<i>D. mycophilus</i>		CBS 8300 ^T	KY107573	KY103280

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>D. nepalensis</i>		NRRL Y-7108 ^T = JCM 2095 = CBS 5921	U45839	KY103281
<i>D. prosopidis</i>		CBS 8450 ^T = JCM 9913 = NRRL Y-27369	KY107579	KY103284
<i>D. psychrophila comb. nov.</i>	<i>Candida psychrophila</i>	NRRL Y-17665 ^T = JCM 2388 = CBS 5956	U45813	KY102350
<i>D. psychrosporus</i>		CBS 11845 ^T = NRRL Y-48723	KY107580	KY103285
<i>D. renaianus sp. nov.</i>	<i>Debaryomyces renaii</i>	CBS 10891 ^T	KY107581	KY103286
<i>D. robertsiae</i>		NRRL Y-6670 ^T = CBS 2934	U45805	KY103288
<i>D. singareniensis</i>		CBS 10405 ^T	KY107585	KY103290
<i>D. subglobosus</i>		CBS 792 ^T = JCM 1989 = NRRL Y-6666	KY107586	KY103291
<i>D. udenii</i>		NRRL Y-17354 ^T = JCM 7855 = CBS 7056	U45844	KY103296
<i>D. vietnamensis</i>		CBS 10535 ^T	NG_055689	NR_152497
<i>D. vindobonensis sp. nov.</i>	<i>Debaryomyces vindobonensis</i>	CBS 11666 ^T	KY107591	KY103298
the single-species lineage <i>Candida anutae</i>				
<i>Candida anutae</i>		CBS 8787 ^T = NRRL Y-27374	NG_058974	NR_151794
the single-species lineage <i>Candida argentea</i>				
<i>Candida argentea</i>		CBS 12358 ^T	NG_058975	JF682350
<i>Diutina</i>				
<i>D. bernalii</i>		NCAIM Y.02230 ^T = DEBM179	MN219652	MN219642
<i>D. catenulata</i>		NRRL Y-1508 ^T = CBS 565	U45714	KY103376
<i>D. mesorugosa</i>		CBS 12656 ^T	KT336716	NR_131299
<i>D. neorugosa</i>		UTHSC 10-2054 ^T = CBS 12627	NG_067521	NR_138360
<i>D. pseudorugosa</i>		CBS 10433 ^T	NG_059159	NR_137599
<i>D. ranongensis</i>		CBS 10861 ^T	NG_059160	NR_138361
<i>D. rugosa</i>		NRRL Y-1496 ^T = CBS 613	FJ768915	KY103379
<i>D. scorzettiae</i>		CBS 10107 ^T	NG_059161	NR_164090
<i>D. siamensis</i>		DMKU RE43 ^T = CBS 13388	KT336715	NR_155042
<i>D. sipiczki</i>		NCAIM Y.02232 ^T	MN219654	MN219645
<i>Fermentozyma gen. nov.</i>				
<i>F. sake comb. nov.</i>	<i>Candida sake</i>	NRRL Y-1622 ^T = CBS 159	NG_055231	KY102379
<i>F. vespimorsuum comb. nov.</i>	<i>Candida vespimorsuum</i>	ICMP 22109 ^T	NG_059018	NR_151814
<i>Candida sp.</i>		KBP Y-6292	OP941477	OP941477

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Hemisphaerica</i> gen. nov.				
<i>H. elongata</i> comb. nov.	<i>Spathaspora elongata</i>	NYNU 18115 ^T	MK682796	MK682770
<i>H. gorwiae</i> comb. nov.	<i>Spathaspora gorwiae</i>	UFMG CM-Y312 ^T = CBS 13472	NG_059956	NR_155784
<i>H. hagerdaliae</i> comb. nov.	<i>Spathaspora hagerdaliae</i>	UFMG CM-Y303 ^T = CBS 13475	KU556168	NR_155800
<i>H. insectamans</i> comb. nov.	<i>Hemisphaerica</i> <i>insectamans</i>	NRRL Y-7786 ^T = JCM 9611 = CBS 6033	U45753	MK394129
<i>H. jiuxiensis</i> comb. nov.	<i>Spathaspora jiuxiensis</i>	NYNU 17416 ^T	MG255705	MG255728
<i>H. lyxosophila</i> comb. nov.	<i>Candida lyxosophila</i>	NRRL Y-17539 ^T = CBS 8194	U76204	genome
<i>H. mengyangensis</i> comb. nov.	<i>Spathaspora mengyangensis</i>	NYNU 17741 ^T	MG255706	MG255718
<i>H. nanyangensis</i> sp. nov.	<i>Hemisphaerica</i> <i>nanyangensis</i>	NYNU13717 ^T = CBS 13020	KF690375	KF690366
<i>H. parajiuxiensis</i> comb. nov.	<i>Spathaspora parajiuxiensis</i>	NYNU 16747 ^T	KY213819	KY213816
<i>H. roraimensis</i> comb. nov.	<i>Spathaspora roraimensis</i>	UFMG-XMD23.3 ^T = CBS12681	JN099269	JN099269
<i>H. rosae</i> comb. nov.	<i>Spathaspora rosae</i>	NYNU 17934 ^T	NG_081458	NR_175617
<i>H. subhashii</i> comb. nov.	<i>Candida subhashii</i>	CBS 10753 ^T	EU836708	NR_073356
<i>H. xylanilytica</i> sp. nov.	<i>Candida xylanilytica</i>	CBS 11761 ^T = NBRC 106499	AB523752	MN904886
<i>H. xylofermentans</i> comb. nov.	<i>Spathaspora xylofermentans</i>	UFMG-HMD23.3 ^T = CBS 12682	JN099268	JN099268
<i>Intestinozyma</i> gen. nov. (single-species lineage <i>Candida alai</i>)				
<i>I. alai</i> comb. nov.	<i>Candida alai</i>	ATCC MYA-4364 ^T = CBS 9899 = NRRL Y-27739	NG_042504	NR_111408
<i>Candida</i> sp.	<i>Candida</i> sp.	B53C		MW165503
<i>Insectozyma</i> gen. nov. (<i>Candida corydali</i> clade)				
<i>I. bohioensis</i> comb. nov.	<i>Candida bohioensis</i>	CBS 9897 ^T = NRRL Y-27737	KY106329	KY101972
<i>I. chauliodis</i> comb. nov.	<i>Candida chauliodis</i>	CBS 10157 ^T = NRRL Y-27909	KY106392	KY102027
<i>I. coleopterorum</i> comb. nov.	<i>Candida coleopterorum</i>	CBS 14180 ^T	NG_064395	NR_159749
<i>I. corydali</i> comb. nov.	<i>Candida corydali</i>	CBS 10158 ^T = NRRL Y-27910	KY106400	KY102035
<i>I. morakotiae</i> comb. nov.	<i>Candida morakotiae</i>	BCC 7718 ^T = CBS 12091	NG_054768	KY102216
<i>I. parachauliodis</i> comb. nov.	<i>Candida parachauliodis</i>	CBS 13928 ^T	NG_064384	NR_159747
<i>I. prachuapensis</i> sp. nov.	<i>Candida prachuapensis</i>	CBS 11024 ^T	NG_054767	\
<i>I. sakaeoensis</i> sp. nov.	<i>Candida sakaeoensis</i>	CBS 12318 ^T	KY106731	KY102369
<i>I. verbasci</i> sp. nov.	<i>Candida verbasci</i>	CBS 12699 ^T	KY106867	KY102495
<i>I. xiaguanensis</i> comb. nov.	<i>Candida xiaguanensis</i>	CBS 13923 ^T	NG_064372	NR_159746
<i>Kodamaea</i>				

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>K. alishanica</i>		CBS 11429 ^T	NG_063941	NR_159556
<i>K. anthophila</i>		CBS 8494 ^T	KY108132	KY103864
<i>K. arcana</i>		NRRL Y-27712 ^T = CBS 9883	AY242347	genome
<i>K. derodonti</i>		CBS 9882 ^T	NG_060804	KY102047
<i>K. fukazawae</i>		JCM 1641 ^T = CBS 9137	NG_059419	AB028033
<i>K. fungicola</i>		CBS 9138 ^T	KY106457	AB028031
<i>K. hsintzibuensis</i>		CBS 11427 ^T	EF653944	NR_160557
<i>K. jinghongensis</i>		NYNU 167162 ^T = CBS 14700	KY213807	KY213814
<i>K. kakaduensis</i>		CBS 8611 ^T	NG_058321	NR_155240
<i>K. kaohsiungensis</i>		CBS 11435 ^T	KY106535	KY102167
<i>K. laetipori</i>		NRRL Y-27713 ^T	AY520398	genome
<i>K. leandrae</i>		CBS 9735 ^T	NG_060374	NR_155222
<i>K. lidongshanica</i>		CBS 11426 ^T	EF653949	GU126451
<i>K. loeiensis</i>		CBS 11899 ^T	AB602835	KY102182
<i>K. meredithae</i>		CBS 13899 ^T = NRRL Y-63729	KM408123	KM384057
<i>K. mesenterica</i>		NRRL Y-1494 ^T = CBS 602	NG_060816	NR_111297
<i>K. neixiangensis</i>		NYNU 167139 ^T = CBS 14699	KY213820	KY213808
<i>K. nitidulidarum</i>		CBS 8491 ^T	KY108137	KY103867
<i>K. ohmeri</i>		NRRL Y-1932 ^T = CBS 5367	GU597323	KY103872
<i>K. plutei</i>		ATCC MYA-4329 ^T = CBS 9885	NG_066357	NR_111389
<i>K. restingae</i>		CBS 8493 ^T	KY106720	KY102360
<i>K. sagamina</i>		JCM 10144 ^T	AY313959	AB028032
<i>K. samutsakhonensis</i>		TBRC 16043 ^T	LC706545	LC706547
<i>K. smagusa</i>		ATCC MYA-4755 ^T = CBS 11430	NG_063943	NR_111611
<i>K. suecica</i>		NRRL Y-12943 ^T = JCM 7530 = CBS 5724	U45732	genome
<i>K. transpacificae</i>		CBS 12823 ^T	KF002564	NR_173358
<i>Kodamaea</i> sp.		yHQL449	genome	genome
<i>Lizanozyma</i> gen. nov. (Scheffersomyces goslingicus clade)				
<i>L. goslingicus</i> sp. nov.	<i>Scheffersomyces goslingicus</i>	CBS 11433 ^T	KY109563	KY105339
<i>L. spartinae</i> comb. nov.	<i>Scheffersomyces spartinae</i>	NRRL Y-7322 ^T = CBS 6059	JQ689045	NR_111290

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>L. thasaensis sp. nov.</i>	<i>Candida thasaensis</i>	CBS 12529 ^T	NG_055174	NR_111028
Lodderomyces				
<i>L. beijingensis</i>		CBS 14171 ^T = NYNU 15764	NG_064393	NR_160326
<i>L. cetoniae comb. nov.</i>	<i>Candida cetoniae</i>	IMB1R2 ^T = CBS 12463	KC118128	NR_132875
<i>L. elongisporus</i>		NRRL YB-4239 ^T = CBS 2605 = ATCC 11503	JQ689035	KY104078
<i>L. hyderabadensis comb. nov.</i>	<i>Candida hyderabadensis</i>	CBS 10444 ^T = NRRL Y-27953	NG_064308	NR_159741
<i>L. jiufengensis comb. nov.</i>	<i>Candida jiufengensis</i>	CGMCC 2.3688 ^T = CBS 10846	EU402935	EU402936
<i>L. margitis comb. nov.</i>	<i>Candida margitis</i>	CICC 33091 ^T = NYNU 15857 = CBS 14175	NG_064394	NR_159750
<i>L. metapsilosis comb. nov.</i>	<i>Candida metapsilosis</i>	ATCC 96144 ^T = CBS 10907	KY106577	KY102203
<i>L. orthopsilosis comb. nov.</i>	<i>Candida orthopsilosis</i>	ATCC 96139 ^T = CBS 10906	NG_054816	NR_130661
<i>L. oxycetoniae comb. nov.</i>	<i>Candida oxycetoniae</i>	CGMCC 2.3656 ^T = CBS 10844	KY106643	KY102281
<i>L. parapsilosis comb. nov.</i>	<i>Candida parapsilosis</i>	NRRL Y-12969 ^T = CBS 604 = ATCC 22019	U45754	KY102290
<i>L. pseudojiufengensis comb. nov.</i>	<i>Candida pseudojiufengensis</i>	CGMCC 2.3693 ^T = CBS 10847	KY106704	KY102345
<i>L. theae sp. nov.</i>	<i>Candida theae</i>	CBS 12239 ^T	KY106808	KY102442
Millerozyma				
<i>M. acaciae</i>		NRRL Y-7117 ^T = JCM 10732 = CBS 5656	KY108556	KY104268
<i>M. farinosa</i>		NRRL Y-7553 ^T = JCM 10734 = CBS 185	JQ689046	KY104273
<i>M. koratensis</i>		BCC 11769 ^T = JCM 12576 = CBS 12092	NG_054797	NR_138173
<i>M. miso</i>		CBS 2004 ^T	KY108801	FR668056
<i>M. phetchabunensis</i>		CBS 11682 ^T	AB371638	AB371639
<i>M. porticicola comb. nov.</i>	<i>Pichia porticicola</i>	NBRC 100302 ^T = CBS 11715	KY108913	KY104643
<i>M. pseudofarinosa comb. nov.</i>	<i>Candida pseudofarinosa</i>	NCYC 386 ^T = CLIB 1231	FN565484	genome
Nematodospora				
<i>N. anomalae</i>		NYNU 14914 ^T = CBS 13927	KP054269	NR_173254
<i>N. valgi</i>		CBS 12562 ^T	HM627112	NR_132909
Priceomyces				
<i>P. carsonii</i>		NRRL YB-4275 ^T = JCM 8121 = CBS 2285	KY108936	NR_111117
<i>P. castillae</i>		NRRL Y-7501 ^T = JCM 10733 = CBS 6053	JQ689040	KY104670
<i>P. haplophilus</i>		NRRL Y-7860 ^T = CBS 2028	JQ689039	NR_111020
<i>P. medius</i>		NRRL Y-7122 ^T = JCM 10737 = CBS 5521	KY108942	NR_155683

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>P. melissophilus</i>		NRRL Y-7585 ^T = JCM 1707 = CBS 6344	KY108946	KY104677
<i>P. fermenticarens</i>		JCM 9589 ^T = CBS 7040 = NRRL Y-17321	NG_054845	NR_077182
<i>P. northwykensis</i>		CBS 11370 ^T	NG_054817	NR_157459
<i>P. vitoshaensis</i>		CBS 12457 ^T	NG_054820	NR_155623
<i>Scheffersomyces</i>				
<i>S. anoplophorae</i>		NYNU 15730 ^T	KU128724	KU128714
<i>S. broadrunensis</i> comb. nov.	<i>Candida broadrunensis</i>	ATCC MYA-4650 ^T = CBS 11838	KY106372	KY102006
<i>S. coipomoensis</i>		CBS 8178 ^T	KY109557	NR_111424
<i>S. cryptocercus</i>		NRRL Y-48824 ^T = CBS 12658	NG_055704	NR_120091
<i>S. ergatensis</i>		CBS 6248 ^T	KY109560	KY105336
<i>S. illinoisensis</i>		NRRL Y-48827 ^T = CBS 12624	NG_042773	NR_111865
<i>S. insectosa</i>		ATCC 66611 ^T = CBS 4286	KY109565	KY105341
<i>S. jinghongensis</i>		NYNU 17926 ^T	MG255714	MG255722
<i>S. lignicola</i> sp. nov.	<i>Scheffersomyces lignicola</i>	NBRC 102564 ^T = CBS 10612	KY109567	KY105344
<i>S. lignosus</i>		NRRL Y-12856 ^T = CBS 4705 = ATCC58779	KY109568	NR_120020
<i>S. paraergatensis</i>		NYNU 16782 ^T	KY213826	KY213803
<i>S. parashehatae</i>		ATCC MYA-4653 ^T = CBS 12535	NG_055697	NR_138230
<i>S. quercinus</i>		NRRL Y-48825 ^T = CBS 12625	NG_055703	NR_120019
<i>S. shehatae</i>		NRRL Y-12858 ^T = CBS 5813	NG_055706	NR_120021
<i>S. stambukii</i>		CBS 14217 ^T	NG_064529	KT033721
<i>S. stipitis</i>		NRRL Y-7124 ^T = CBS 5773 = ATCC58376	JQ689044	NR_165947
<i>S. titani</i>		NYNU14712 ^T = CBS 13926	KP054262	NR_173253
<i>S. virginianus</i>		NRRL Y-48822 ^T = CBS 12625	KY109571	KY105348
<i>S. xylosifermentans</i>		CBS 12540 ^T	KY109586	KY105362
<i>Schwanniomyces</i>				
<i>S. capriottii</i>		NRRL Y-7423 ^T = CBS 2923	KY109604	KY105380
<i>S. etchellsii</i>		JCM 3656 ^T = NRRL Y-7121 = CBS 2011	JQ689043	NR_111017
<i>S. occidentalis</i> var. <i>occidentalis</i>		NRRL Y-10 ^T = CBS 819	JQ689042	KY105389
<i>S. occidentalis</i> var. <i>persoonii</i>		NRRL Y-7400 ^T = CBS 2169	NG_054863	KY105391
<i>S. polymorphus</i>		NRRL Y-2022 ^T = CBS 186	U45836	KY105399

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>S. pseudopolymorphus</i>		NRRL YB-4229 ^T = CBS 2008	KY109636	KY105403
<i>S. vanrijae</i> var. <i>vanrijae</i>		NRRL Y-7430 ^T = CBS 3024	NG_054865	KY105408
<i>S. vanrijae</i> var. <i>yarrowii</i>		NRRL Y-7535 ^T = CBS 6246	NG_054866	KY105410
<i>S. yamadae</i>		NRRL Y-11714 ^T = CBS 7035	NG_054862	KY105413
<i>Spathaspora sensu stricto</i>				
<i>S. allomyrinae</i>		CCIC 33057 ^T = CBS 13924 = NYNU 1495	KP054267	KP054268
<i>S. arborariae</i>		CBS 11463 ^T = ATCC MYA-4684	NG_042574	NR_111592
<i>S. brasiliensis</i> sp. nov.	<i>Spathaspora brasiliensis</i>	UFMG-HMD19.3 ^T = CBS 12679	JN099271	JN099271
<i>S. girioi</i>		UFMG CM-Y302 ^T = CBS 13476	NG_059955	NR_155783
<i>S. jeffriesii</i>		CBS 9898 ^T = ATCC MYA-4346	KY106532	KY102164
<i>S. materiae</i>		CBS 10975 ^T	FJ154790	FJ154790
<i>S. passalidarum</i>		NRRL Y-27907 ^T = CBS 10155	NG_042631	NR_111397
<i>S. piracicabensis</i>		UFMG CM-Y5867 ^T = CBS 15054	KR864906	KR864907
<i>S. suhii</i> sp. nov.	<i>Spathaspora suhii</i>	UFMG-XMD16.2 ^T = CBS 12680	JN099270	JN099270
<i>Suhomyces</i>				
<i>S. ambrosiae</i>		NRRL YB-1316 ^T = CBS 8844	NG_054780	NR_155812
<i>S. anneliseae</i>		NRRL Y-27563 ^T = CBS 9837	KY106295	KY101930
<i>S. atakaporum</i>		NRRL Y-27570 ^T = CBS 9833	KY106307	KY101946
<i>S. bokatorum</i>		NRRL Y-27571 ^T = CBS 9824	KY106349	KY101996
<i>S. bolitotheri</i>		CBS 9832 ^T	KY106356	KY102003
<i>S. bibrorum</i>		NRRL Y-27572 ^T = CBS 9835	NG_054789	NR_155814
<i>S. canberraensis</i>		NRRL YB-2417 ^T = CBS 8846	NG_054781	NR_077195
<i>S. caryicola</i> comb. nov.	<i>Candida caryicola</i>	CBS 8847 ^T = NRRL YB-1499	KY106388	NR_077194
<i>S. caryicola</i>	<i>Candida caryicola</i>	EXF-12358	MW049167	MW031228
<i>S. chickasaworum</i>		NRRL Y-27566 ^T = CBS 9830	NG_054784	KY102028
<i>S. choctaworum</i>		CBS 9831 ^T	KY106395	KY102030
<i>S. coccinellae</i>		CLIB1706 ^T = CBS 14298	LN875195	LN875172
<i>S. emberorum</i>		NRRL Y-27606 ^T = CBS 9827	NG_054785	NR_155817
<i>S. faveliae</i>		CLIB1725 ^T = CBS 14299	LN875204	LN875182
<i>S. guaymorum</i>		NRRL Y-27568 ^T = CBS 9823	KY106486	KT823680

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>S. kilbournensis</i>		NRRL Y-17864 ^T = CBS 14276	KU751780	KU751781
<i>S. kunorum</i>		NRRL Y-27580 ^T = CBS 9825	KY106542	KY102175
<i>S. maxii</i>		NRRL Y-27588 ^T = CBS 9836	KY106566	KY102199
<i>S. panamericanus</i>		NRRL Y-27567 ^T = CBS 9834	KY106648	KY102287
<i>S. prunicola</i>		NRRL YB-869 ^T = CBS 8848	KY106698	NR_111288
<i>S. pyralidae</i>		NRRL Y-27085 ^T = CBS 5035	NG_054779	NR_164391
<i>S. rongomai-pounamu comb. nov.</i>	<i>Candida rongomai-pounamu</i>	ICMP 22125 ^T	NG_059019	NR_151813
<i>S. taliae</i>		NRRL Y-27589 ^T = CBS 9838	KY106790	KY102425
<i>S. tanzawaensis</i>		NRRL Y-17324 ^T = CBS 7422	KY106794	KY102429
<i>S. terraborum</i>		NRRL Y-27573 ^T = CBS 9826	KY106802	KY102437
<i>S. tibetensis comb. nov.</i>	<i>Candida tibetensis</i>	CGMCC 2.3072 ^T = CBS 10298	KY106809	KY102444
<i>S. vadensis</i>		NRRL Y-27778 ^T = CBS 9454	NG_054801	NR_155826
<i>S. wounanorum</i>		NRRL Y-27574 ^T = CBS 9828	KY106890	KY102520
<i>S. xylopsoci</i>		NRRL Y-27066 ^T = CBS 6037	NG_054782	FR819718
<i>S. yuchorum</i>		NRRL Y-27569 ^T = CBS 9829	NG_054786	NR_155827
<i>S. drosophilae</i>		CBS 16329 ^T	MN963956	MN963955
<i>S. rilaensis</i>		NBIMCC 8929 ^T = CBS 12443	HM627061	HM627147
<i>Suzukiozyma gen. nov.</i> (<i>Candida glaebosa</i> clade)				
<i>S. fluviatilis comb. nov.</i>	<i>Candida fluviatilis</i>	NRRL Y-7711 ^T = CBS 6776	U45717	NR_111589
<i>S. glaebosa comb. nov.</i>	<i>Candida glaebosa</i>	NRRL Y-6949 ^T = CBS 5691	U45757	NR_077183
<i>S. manassasensis comb. nov.</i>	<i>Candida manassasensis</i>	ATCC MYA-4652 ^T = CBS 12534	KY106555	KY102189
<i>S. palmioleophila comb. nov.</i>	<i>Candida palmioleophila</i>	JCM 5218 ^T = NRRL Y-17323 = CBS 7418	U45758	KY102283
<i>S. pseudoglaebosa comb. nov.</i>	<i>Candida pseudoglaebosa</i>	JCM 2168 ^T = NRRL Y-17911 = CBS 6715	U71072	KY102342
<i>S. saitoana comb. nov.</i>	<i>Torulopsis candida</i> , <i>Candida saitoana</i>	NRRL Y-17316 ^T = CBS 940	U45762	KY102368
<i>S. sphagnicola comb. nov.</i>	<i>Candida sphagnicola</i>	CBS 11774 ^T	KY106778	FN868154
<i>Teunomyces</i>				
<i>T. aglyptinius</i>		NRRL Y-27935 ^T = CBS 10311	NG_054798	NR_165962
<i>T. atbi</i>		NRRL Y-27651 ^T = CBS 9852	KY106309	KY101947
<i>T. barrocoloradensis</i>		NRRL Y-27934 ^T = CBS 10310	NG_054799	NR_155888
<i>T. basidiocarpi</i>		BCRC 23475 ^T	HM461612	HM461641

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>T. cretensis</i>		CBS 9453 ^T	KY106401	KY102036
<i>T. funiuensis</i>		CBS 13911 ^T	NG_064366	NR_160320
<i>T. gatunensis</i>		NRRL Y-48064 ^T = CBS 10379	KY106460	KY102098
<i>T. kruisii</i>		NRRL Y-17087 ^T = CBS 6451	KY106541	KY102174
<i>T. luguensis</i>		BCRC 23476 ^T	HM461614	HM461644
<i>T. lycoperdinae</i>		CBS 9850 ^T	KY106549	KY102183
<i>T. pallodes</i>		NRRL Y-27653 ^T = CBS 9845	NG_054795	NR_137667
<i>T. panamensis</i>		NRRL Y-27657 ^T = CBS 9849	NG_058280	NR_137668
<i>T. stri</i>		NRRL Y-48063 ^T = CBS 10378	NG_054800	NR_155925
<i>T. tritomae</i>		CBS 9843 ^T	KY106815	KY102447
<i>Teunomyces</i> sp.		UFMG-CM-Y6362	MG857092	OQ029643
Wickerhamia				
<i>W. fluorescens</i>		NRRL YB-4819 ^T = CBS 4565	JQ689034	KY105850
<i>W. europaea</i>		CBS 18675 ^T	OR582606	OR582606
the single-species lineage <i>Candida glucosophila</i>				
<i>Candida glucosophila</i>		CBS 7349 ^T = JCM 9440 = NRRL Y-17781	U45849	MF314336
<i>Zhulianozyma</i> gen. nov. (<i>Candida blackwelliae</i> clade)				
<i>Z. blackwelliae</i> comb. nov.	<i>Candida blackwelliae</i>	CGMCC 2.3639 ^T = CBS 10843	KY106321	NR_111470
<i>Z. boniae</i> comb. nov.	<i>Spathaspora boniae</i>	UFMG CM-Y306 ^T = CBS 13262	KT276332	NR_158910
<i>Z. parablackwelliae</i> comb. nov.	<i>Candida parablackwelliae</i>	NYNU17763 ^T = CBS 15228	MG255702	MG255731
Metschnikowiaceae				
<i>Metschnikowia</i>				
<i>M. agaves</i> clade				
<i>Candida wancherniae</i>		CBS 12090 ^T	KY106888	KY102518
<i>M. arizonensis</i> clade				
<i>Candida hawaiiiana</i>		NRRL Y-27473 ^T = CBS 9146	KY106497	KY102130
<i>M. bicuspidata</i> clade				
<i>Candida golubevii</i>		NBRC105679 ^T = CBS 11362 = NRRL Y-48707	DQ404455	
<i>C. hydropsyches</i>		NRRL Y-27752 ^T = CBS 9906	KY106510	KY102144
<i>C. magnifica</i>		NRRL Y-5717 ^T	U44821	

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>M. caudata</i> clade				
<i>Candida hainanensis</i>		NRRL Y-48715 ^T = CBS 10696	EU284103	EU284099.1
the single-species lineage <i>Candida danieliae</i>				
<i>Candida danieliae</i>		CBS 8533 ^T	NG_058979	HM156530
<i>Incertae sedis</i> in <i>Metschnikowiaceae</i>				
<i>Candida citri</i>		CBS 11858 ^T	KY106398	KY102033
<i>Candida xylosifermentans</i>		TBRC 10387 ^T	AB525240	LC440109
<i>Incertae sedis</i> in <i>Serinales</i>				
the single-species lineage <i>Candida ascalaphidarum</i>				
<i>Candida ascalaphidarum</i>		CBS 10156 ^T = NRRL Y-27908	NG_042502	NR_111405
<i>Chernozyma gen. nov.</i> (<i>Candida aurita</i> clade)				
<i>C. aurita</i>	<i>Candida aurita</i>	CBS 9724 ^T	NG_058976	KY101953
<i>C. palmyrensis</i>	<i>Candida palmyrensis</i>	ATCC 62899 ^T = CBS 11546	KY106646	KY102285
<i>C. sophiae-reginae</i>	<i>Candida sophiae-reginae</i>	NRRL Y-17668 ^T = CBS 8175	U45817	KY102409
<i>Dujonia gen. nov.</i> (<i>Candida railenensis</i> clade)				
<i>D. anglica comb. nov.</i>	<i>Candida anglica</i>	CBS 4262 ^T = NRRL Y-27079	NG_054775	NR_163770
<i>D. boleticola comb. nov.</i>	<i>Candida boleticola</i>	NRRL Y-17080 ^T = CBS 6420	U45777	NR_077166
<i>D. oleophila comb. nov.</i>	<i>Candida oleophila</i>	NRRL Y-2317 ^T = CBS 2219	U45793	KY102254
<i>D. railenensis comb. nov.</i>	<i>Candida railenensis</i>	NRRL Y-17762 ^T = CBS 8164	U45800	KY102355
	<i>Candida santamariae var. membranifaciens</i>	NRRL Y-17647 ^T = CBS 5838	U45785	KY102386
<i>D. santamariae comb. nov.</i>	<i>Candida santamariae var. santamariae</i>	NRRL Y-6656 ^T = CBS 4515	U45794	KY102387
<i>D. santamariae comb. nov.</i>	<i>Candida santamariae</i>	CECT 11165 ^T	U45798	AJ539373
<i>D. schatavii comb. nov.</i>	<i>Candida schatavii</i>	NRRL Y-17078 ^T = JCM 1778 = CBS 6452	U45795	NR_155214
<i>D. zeylanoides comb. nov.</i>	<i>Candida zeylanoides</i>	NRRL Y-1774 ^T = CBS 619	U45832	KY102539
<i>Glucitozyma gen. nov.</i>				
<i>G. multigemmis comb. nov.</i>	<i>Candida multigemmis</i>	NRRL Y-17659 ^T = CBS 6524	JQ689037	KY102218
<i>Keginozyma gen. nov.</i> (<i>Candida sinolaborantium</i> clade)				
<i>K. heliconiae comb. nov.</i>	<i>Candida heliconiae</i>	CBS 10000 ^T = NRRL Y-27813	KM065900	KY102131
<i>K. nonsorbophila comb. nov.</i>	<i>Candida nonsorbophila</i>	CBS 10862 ^T	KY106601	KY102232

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>K. sinolaborantium comb. nov.</i>	<i>Candida sinolaborantium</i>	NRRL Y-27765 ^T = CBS 9940	KM065905	KY102395
<i>K. temnochilae comb. nov.</i>	<i>Candida temnochilae</i>	NRRL Y-27763 ^T = CBS 9938	KM065906	KY102432
<i>Kurtzmaniella</i>				
<i>K. cleridarum</i>		NRRL Y-48386 ^T = CBS 8793	JQ689038	NR_111153
<i>K. fragi</i>		NRRL Y-17910 ^T = JCM 1791 = CBS 7702	U71071	KY102089
<i>K. hittingeri</i>		CBS 13469 ^T	KF582609	KF582611
<i>K. natalensis</i>		NRRL Y-17680 ^T = JCM 1445	NG_055225	KC542314
<i>K. quercitrusa</i>		NRRL Y-5392 = CBS 4412	NG_055226	NR_163508
<i>Meyerozyma</i>				
<i>M. amylolytica</i>		CBS 15272 ^T = DSM 27310	KY673531	NR_154976
<i>M. athensis</i>		CBS 9840 ^T = NRRL Y-27644	NG_054793	KY101949
<i>M. caribbica</i>		NRRL Y-27274 ^T = CBS 9966	KY108516	KY104222
<i>M. caribbica</i>	<i>Candida fermentati</i>	NRRL Y-27401 ^T	AY187283	AF022718
<i>M. carpophila</i>		JCM 9396 ^T = CBS 5256	MK394110	NR_152984
<i>M. elateridarum</i>		CBS 9842 ^T	NG_042465	NR_111350
<i>M. guilliermondii</i>		NRRL Y-2075 ^T = CBS 2030	JQ689047	KY104252
<i>M. neustonensis</i>		CBS 11061 ^T	NG_054803	NR_152946
<i>M. smithsonii</i>		CBS 9839 ^T	NG_054792	NR_111339
<i>Yamadazyma sensu stricto clade</i>				
<i>Y. aaseri</i>		NRRL YB-3897 ^T = CBS 1913	U45802	NR_077069
<i>Y. akitaensis</i>		NRRL Y-7904 ^T = CBS 6701	NG_054847	NR_138229
<i>Y. andamanensis sp. nov.</i>	<i>Candida andamanensis</i>	CBS 10859 ^T	NG_055688	NR_155982
<i>Y. atlantica</i>	<i>Candida atlantica</i>	NRRL Y-17759 ^T = JCM 9548 = CBS 5263	U45799	NR_155983
<i>Y. atmosphaerica</i>	<i>Candida atmosphaerica</i>	NRRL Y-17642 ^T = JCM 9549 = CBS 4547	U45779	AJ539369
<i>Y. barbieri</i>		CBS 14301 ^T	NG_064450	NR_160336
<i>Y. cocois</i>		VCIM 4241 ^T	KM248523	NR_173296
<i>Y. conglobata</i>	<i>Candida conglobata</i>	NRRL1504 ^T = JCM 2373 = CBS 2018	U45789	AJ539370
<i>Y. dendronema</i>		NRRL Y-7781 ^T = CBS 6270	U45751	NR_155957
<i>Y. diddensiae</i>	<i>Candida diddensiae</i>	CBS 2214 ^T = NRRL Y-7589	KY106414	KY102049
<i>Y. dushanensis sp. nov.</i>	<i>Yamadazyma dushanensis</i>	CBS 13914 ^T	NG_064369	NR_160323

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Y. germanica</i>		CBS 4105 ^T = NRRL Y-27064	KY106463	KY102100
<i>Y. insectorum</i>		NRRL Y-7787 ^T = JCM 9457 = CBS 6213	U45791	KY102150
<i>Y. kanchanaburiensis</i>		CBS 11266 ^T	KY106534	KY102166
<i>Y. laniorum</i>		NRRL Y-63967 ^T = CBS 14780	KY588136	KY588337
<i>Y. luoyangensis</i>		NYNU 201035 ^T	MZ318422	MZ318445
<i>Y. mexicana</i>		NRRL Y-11818 ^T = CBS 7066	NG_058439	NR_138213
<i>Y. naeodendra</i>		NRRL Y-10942 ^T = CBS 6032	U45759	KY102222
<i>Y. nakazawae</i>		NRRL Y-7903 ^T = CBS 6700	NG_054843	NR_119733
<i>Y. oceani sp. nov.</i>	<i>Candida oceani</i>	CBS 11857 ^T = DSM 23777	KY106609	KY102240
<i>Y. ovata</i>		NYUN 19130 ^T	MZ318425	MZ318424
<i>Y. paraaseri</i>		NYNU 181033 ^T	MZ318460	MZ318421
<i>Y. paraphyllophila sp. nov.</i>	<i>Yamadazyma paraphyllophila</i>	CBS 9928 ^T	AY562397	NR_111164
<i>Y. philogaea</i>		NRRL Y-7813 ^T = CBS 6696	JQ689048	NR_119915
<i>Y. phyllophila sp. nov.</i>	<i>Yamadazyma phyllophila</i>	CBS 12572 ^T	KY110162	NR_119421
<i>Y. pseudoaseri</i>		CBS 11170 ^T	KY106699	KY102340
<i>Y. riverae</i>		UFMG CM-Y444 ^T = CBS 14121	NG_059986	NR_155968
<i>Y. scolyti</i>		NRRL Y-5512 ^T = CBS 4802	JQ689050	NR_111287
<i>Y. siamensis sp. nov.</i>	<i>Yamadazyma siamensis</i>	CBS 12573 ^T	NG_058440	NR_119420
<i>Y. spencermartinsiae</i>	<i>Candida spencermartinsiae</i>	CBS 10894 ^T = NRRL Y-48663	KY106777	KY102414
<i>Y. taylorii</i>	<i>Candida taylorii</i>	CBS 8508 ^T = NRRL Y-27213	KY106796	KY102431
<i>Y. tenuis</i>		NRRL Y-1498 ^T = JCM 9827 = CBS 615	U45774	KY102434
<i>Y. terventina</i>		CBS 12510 ^T	JQ247717	NR_160050
<i>Y. trypodendri</i>		NRRL Y-6488 ^T = CBS 8505	KY106852	KY102483
<i>Y. ubonensis sp. nov.</i>	<i>Yamadazyma ubonensis</i>	CBS 12859 ^T	NG_058443	NR_155998
<i>Y. vaughaniae</i>		CBS 8583 ^T	KY106866	KY102494
<i>Yamadazyma epiphylla</i> clade				
<i>Yamadazyma endophytica</i>		DMKU-CE23 ^T = CBS 14163	KT307981	genome
<i>Y. epiphylla</i>		NBRC110423 ^T = CBS 13384	LC006026	LC006082
<i>Yamadazyma triangularis</i> clade				
<i>Yamadazyma insecticola</i>		NBRC110421 ^T = CBS 13382	DQ400379	NR_138248

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Y. triangularis</i>		NRRL Y-5714 ^T = CBS 4094	JQ689051	NR_111309
<i>Yamadazyma sp.</i>		13Y203	LC060701	LC060702
<i>Yamadazyma sp.</i>		14Y266	LC060707	LC060708
<i>Yamadazyma sp.</i>		SK21-421	OM802623	OM920822
<i>Metschnikowia hawaiiiana'</i>		DBMY342	\	KJ706559
<i>Metschnikowia hawaiiiana'</i>		DBMY501	\	KJ706718
<i>Yamadazyma olivae</i> clade				
<i>Yamadazyma amphicis</i>	<i>Candida amphicis</i>	NRRL Y-27704 ^T = CBS 9877	KY106290	KY101926
<i>Y. blattariae</i>	<i>Candida blattariae</i>	CBS 9876 ^T	KY106328	KY101971
<i>Y. buinensis</i>	<i>Candida buinensis</i>	NRRL Y-11706 ^T = CBS 6796	U45778	KY102008
<i>Y. cerambycidarum</i>	<i>Candida cerambycidarum</i>	CBS 9879 ^T = NRRL Y-27706	AY520299	AY964669
<i>Y. diospyri</i>	<i>Candida diospyri</i>	CBS 9769 ^T	KY106418	NR_137665
<i>Y. endomychidarum</i>	<i>Candida endomychidarum</i>	CBS 9881 ^T = NRRL Y-27708	KY106430	KY102069
<i>Y. friedrichii</i>	<i>Candida friedrichii</i>	NRRL Y-17653 ^T = JCM 9553 = CBS 4114	U45781	KY102092
<i>Y. gorgasii</i>	<i>Candida gorgasii</i>	CBS 9880 ^T = NRRL Y-27707	KY106481	KY102113
<i>Y. jaroonii sp. nov.</i>	<i>Candida jaroonii</i>	CBS 10790 ^T	KY106531	KY102163
<i>Y. keroseneae</i>	<i>Candida keroseneae</i>	CECT 1305 ^T = IMI 395605	FJ357698	NR_137563
<i>Y. khao-thaluensis</i>	<i>Candida khao-thaluensis</i>	CBS 8535 ^T	KY106536	KY102168
<i>Y. kitorensis</i>		JCM31005 ^T = CBS 14158	LC060995	NR_156006
<i>Y. lessepsii</i>	<i>Candida lessepsii</i>	CBS 9941 ^T = NRRL Y-27766	KY106548	KY102181
<i>Y. membranifaciens</i>	<i>Candida membranifaciens</i>	NRRL Y-2089 ^T = CBS 1952	U45792	KY102202
<i>Y. michaelii</i>	<i>Candida michaelii</i>	CBS 9502 ^T	KY106583	NR_111391
<i>Y. olivae</i>	<i>Candida olivae</i>	CBS 11171 ^T	KY110160	KY105946
<i>Y. olivae</i>	<i>Candida olivae</i>	ATCC MYA-4568 ^T	NG_042526	NR_111477
<i>Y. songkhlaensis sp. nov.</i>	<i>Candida songkhlaensis</i>	CBS 10791 ^T = NBRC 103214	KY106765	KY102403
<i>Y. tallmaniae</i>	<i>Candida tallmaniae</i>	CBS 8575 ^T	KY106791	KY102426
<i>Y. tammaniensis</i>	<i>Candida tammaniensis</i>	CBS 8504 ^T = NRRL Y-8257	KY106792	KY102427
<i>Y. takamatsuzukensis</i>		CBS 10916 ^T = JCM 28201 = NBRC 104391	NG_058441	NR_144770
<i>Y. tumulicola</i>		CBS 10917 ^T = JCM 28226 = NBRC 104392	NG_058442	NR_144769
<i>Y. vrieseae sp. nov.</i>	<i>Candida vrieseae</i>	CBS 10829 ^T	NG_060833	NR_155991

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>Candida koratitica</i> '		BCC 7743 ^T = NBRC 103208	AB354232	AB360443
Saccharomycetes				
Phaffomycetales				
Phaffomycetaceae				
Barnettozyma				
<i>B. californica</i>		NRRL Y-17395 ^T = CBS 252	EF550276	NR_138212
<i>B. hawaiiensis</i>		NRRL Y-27270 ^T = CBS 8760	NG_058701	NR_153631
<i>B. menglunensis</i>		NYNU 1811121 ^T	MK682804	MK682797
<i>B. populi</i>		NRRL Y-12728 ^T = CBS 8094	NG_058630	NR_153632
<i>Candida sanyiensis</i>	<i>Candida sanyiensis</i>	CBS 10592 ^T	NG_060378	NR_154871
<i>B. sucrosica</i> sp. nov.	<i>Barnettozyma sucrosica</i>	CBS 11512 ^T	KY106187	KY101734
<i>B. vustinii</i>		CBS 11554 ^T	NG_058702	NR_137724
<i>B. xylosica</i> sp. nov.	<i>Barnettozyma xylosica</i>	NBRC 111558 ^T	LC202861	NR_154882
<i>B. xylosiphila</i> sp. nov.	<i>Barnettozyma xylosiphila</i>	NBRC 110202 ^T	NG_058713	NR_174638
<i>Pichia</i> sp.		KY-328	\	AB428337
<i>Barnettozyma</i> sp.		NYNU 1811121	MK682804	\
Gotozyma gen. nov. (<i>Barnettozyma siamensis</i> clade)				
<i>G. botsteinii</i> sp. nov.	<i>Barnettozyma botsteinii</i>	CBS 16679 ^T	MN509221	MN509222
<i>G. montana</i> comb. nov.	<i>Candida montana</i>	NRRL Y-17326 ^T = CBS 8057	U62305	KY102215
<i>G. siamensis</i> comb. nov.	<i>Barnettozyma siamensis</i>	CBS 13392 ^T	AB741519	KJ413945
Komagataea (<i>Barnettozyma wickerhamii</i> clade)				
<i>K. norvegica</i> comb. nov.	<i>Candida norvegica</i>	NRRL Y-17660 ^T = CBS 4239	U62299	KY102237
<i>K. pratensis</i>	<i>Barnettozyma pratensis</i>	NRRL Y-12696 ^T = CBS 7079	NG_058629	NR_153633
<i>K. qinlingensis</i> comb. nov.	<i>Candida qinlingensis</i>	CBS 9768 ^T	KY106712	KY102353
<i>K. salicaria</i> comb. nov.	<i>Barnettozyma salicaria</i>	NRRL Y-6780 ^T = CBS 5456	NG_058628	genome
<i>K. salicaria</i>		0H7	KM103058	\
<i>K. salicaria</i>		0H4	KM103057	\
<i>K. wickerhamii</i> comb. nov.	<i>Barnettozyma wickerhamii</i>	NRRL Y-2435 ^T = CBS 4107	U75419	genome
Millerago				

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>M. galiae</i>		CBS 8842 ^T	KY106458	KY102096
<i>M. ficus sp. nov.</i>	<i>Candida ficus</i>	CBS 12638 ^T	JQ713956	JQ713957
<i>M. phaffii</i>		CBS 18021 ^T	ON264698	ON311286
<i>Phaffomyces</i>				
<i>P. antillensis</i>		NRRL Y-12881 ^T = CBS 7111	NG_060074	genome
<i>P. coquimbensis sp. nov.</i>	<i>Candida coquimbensis</i>	CBS 12348 ^T	JF733717	genome
<i>P. opuntiae</i>		NRRL Y-11707 ^T = CBS 7010	NG_060075	genome
<i>P. orba comb. nov.</i>	<i>Candida orba</i>	CBS 8782 ^T = NRRL Y-27336	EF550265	NR_154354
<i>P. thermotolerans</i>		NRRL Y-11709 ^T = CBS 7012	KY108772	KY104502
<i>P. usticensis</i>		CBS 12958 ^T	KF719195	\
<i>Wickerhamomycetaceae</i>				
<i>Buckleya gen. nov.</i> (single-species lineage <i>Candida freyschussii</i>)				
<i>B. freyschussii comb. nov.</i>	<i>Candida freyschussii</i>	CBS 2162 ^T = JCM 9850	NG_055229	KY102090
<i>Candida sp.</i>		NIAH-01	AB703242	\
Uncultured fungus isolate		5671_38	\	OR982231
Uncultured fungus clone		5426_384	\	OM614845
Uncultured fungus clone		5426_524	\	OM614856
<i>Hansenula</i> (<i>Hansenula</i> clade)				
<i>H. anomala</i>	<i>Wickerhamomyces anomalus</i>	NRRL Y-366 ^T = CBS 5759	U74592	KY105894
<i>H. arboraria</i>	<i>Wickerhamomyces arborarius</i>	CBS 12941 ^T	NG_057179	NR_155000
<i>H. ciferrii</i>	<i>Wickerhamomyces ciferrii</i>	NRRL Y-1031 ^T = CBS 111	U74587	FJ153218
<i>H. edaphica</i>	<i>Wickerhamomyces edaphicus</i>	CBS 10408 ^T	KY110120	KY105904
<i>H. lynferdii</i>	<i>Wickerhamomyces lynferdii</i>	NRRL Y-7723 ^T = CBS 6695 = BCRC 22676	NG_057175	NR_111798
<i>H. myanmarensis</i>	<i>Pichia myanmarensis</i>	CBS 9786 ^T	KY108896	KY104632
<i>H. queroliae comb. nov.</i>	<i>Wickerhamomyces queroliae</i>	UFMG-T05-200.1 ^T = NRRL Y-48478	EU580140	genome
<i>H. siamensis</i>	<i>Wickerhamomyces siamensis</i>	DMKU RK359 ^T = CBS 12570	NG_042337	NR_111029
<i>H. silvicultrix comb. nov.</i>	<i>Candida silvicultrix</i>	NRRL Y-7789 ^T = CBS 6269	U69879	KY102394
<i>H. spegazzinii sp. nov.</i>	<i>Wickerhamomyces spegazzinii</i>	CBS 12756 ^T	NG_063933	NR_160053
<i>H. subpelliculosa</i>	<i>Wickerhamomyces subpelliculosus</i>	NRRL Y-1683 ^T = CBS 5767	KY110142	NR_111336
<i>H. sydowiorum</i>	<i>Wickerhamomyces sydowiorum</i>	NRRL Y-7130 ^T = CBS 5995	KY110146	NR_138219

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>H. sylviae</i> sp. nov.	<i>Wickerhamomyces sylviae</i>	PYCC 6345 ^T = CBS 12888	KF240728	genome
<i>Liangdongia</i> gen. nov. (<i>Starmera dryadoides</i> clade)				
<i>L. berthetii</i> comb. nov.	<i>Candida berthetii</i>	NRRL Y-17644 ^T = NBRC10266 = CBS 5452	U62298	NR_077118
<i>L. dendrica</i> comb. nov.	<i>Candida dendrica</i>	NRRL Y-7775 ^T = CBS 6151	U62301	NR_155816
<i>L. dryadoides</i> comb. nov.	<i>Starmera dryadoides</i>	NRRL Y-10990 ^T = CBS 6154	NG_058406	NR_155848
<i>L. ilhagrandensis</i> comb. nov.	<i>Starmera ilhagrandensis</i>	CBS 16316 ^T	MH279972	MH279972
<i>L. laemsonensis</i> sp. nov.	<i>Candida laemsonensis</i>	CBS 11419 ^T	AB438205	AB534173
<i>L. nongkratonensis</i> comb. nov.	<i>Pichia nongkratonensis</i>	BCC 11772 ^T	NG_055079	\
<i>L. quercuum</i> comb. nov.	<i>Starmera quercuum</i>	NRRL YB-4281 ^T = CBS 2283	U75416	genome
<i>Petasospora</i> (<i>Cyberlindnera sensu stricto</i> clade)				
<i>P. adriatica</i> comb. nov.	<i>Candida adriatica</i>	CBS 12504 ^T = ZIM2334	NG_060386	NR_152453
<i>P. americana</i>	<i>Cyberlindnera americana</i>	CBS 5645 ^T = NRRL Y-2156	EF550328	KY103038
<i>P. amylophila</i>	<i>Cyberlindnera amylophila</i>	CBS 7020 ^T = NRRL YB-1287	EF550319	NR_152480
<i>P. bimundalis</i>	<i>Cyberlindnera bimundalis</i>	NRRL Y-5343 ^T = CBS 5642	NG_069004	KY103040
<i>P. dasilvae</i>	<i>Cyberlindnera dasilvae</i>	CBS 16129 ^T = UFMG-CM-Y519	MT311982	MT312230
<i>P. easanensis</i> sp. nov.	<i>Candida easanensis</i>	CBS 11708 ^T = JCM12474 = JCM 12476	NG_059425	KY102065
<i>P. euphorbiae</i>	<i>Cyberlindnera euphorbiae</i>	NRRL Y-17232 ^T = CBS 8033	NG_058754	KY103041
<i>P. euphorbiiphila</i>	<i>Cyberlindnera euphorbiiphila</i>	NRRL Y-12742 ^T	EF550312	\
<i>P. fabianii</i>	<i>Cyberlindnera fabianii</i>	NRRL Y-1871 ^T = CBS 5640	U73573	KY103043
<i>P. hungchunana</i> sp. nov.	<i>Candida hungchunana</i>	CBS 12243 ^T	KY106509	KY102143
<i>P. japonica</i>	<i>Cyberlindnera japonica</i>	NRRL YB-2750 ^T = CBS 7209	KY107369	KY103061
<i>P. maesae</i>	<i>Cyberlindnera maesae</i>	ATCC MYA-4698 ^T = CBS 12240	NG_059473	NR_152454
<i>P. maritima</i>	<i>Cyberlindnera maritima</i>	JCM 9612 ^T = CBS 5107 = NRRL Y-17775	KY106562	NR_152474
<i>P. meyerae</i>	<i>Cyberlindnera meyerae</i>	NRRL Y-17236 ^T = CBS 7076	KY107374	KY103066
<i>P. mississippiensis</i>	<i>Cyberlindnera mississippiensis</i>	NRRL YB-1294 ^T = CBS 7023	KY107376	KY103068
<i>P. mycetangii</i>	<i>Cyberlindnera mycetangii</i>	NRRL Y-6843 ^T = CBS 8675	NG_060382	NR_152475
<i>P. nakhonratchasimensis</i> sp. nov.	<i>Cyberlindnera nakhonratchasimensis</i>	JCM 12474 ^T = CBS 11706	KY106593	KY102223
<i>P. pattaniensis</i> sp. nov.	<i>Candida pattaniensis</i>	JCM 12475 ^T = CBS 11707	AY634568	NR_144776
<i>P. petersonii</i>	<i>Cyberlindnera petersonii</i>	NRRL YB-3808 ^T = CBS 5555	KY107385	KY103077
<i>P. rhizosphaerae</i>	<i>Cyberlindnera rhizosphaerae</i>	CBS 11400 ^T	KY107386	KY103078

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>P. rhodanensis</i>		NRRL Y-7854 ^T = CBS 5518	U73571	KY103083
<i>P. stauntonica</i> sp. nov.	<i>Candida stauntonica</i>	CBS 12241 ^T	KY106779	KY102415
<i>P. sylvatica</i>	<i>Cyberlindnera sylvatica</i>	CBS 16335 ^T	MT316316	\
<i>P. taoyuanica</i> sp. nov.	<i>Candida taoyuanica</i>	CBS 12242 ^T	KY106795	KY102430
<i>P. veronae</i>	<i>Cyberlindnera veronae</i>	NRRL Y-7818 ^T = CBS 6591	KY107421	KY103115
<i>P. wuzhiensis</i>	<i>Cyberlindnera wuzhiensis</i>	AS 2.3480 ^T	FJ606825	FJ606824
<i>P. xishuangbannaensis</i>	<i>Cyberlindnera xishuangbannaensis</i>	NYNU 16752 ^T = CBS 14692	KY213813	KY213821
<i>P. xylebori</i>	<i>Cyberlindnera xylebori</i>	CBS 12187 ^T	KY107422	KY103116
<i>P. xylebori</i>		1106PJ03B	MF784950	MF964601
<i>P. xylebori</i>		1030PJ02F	\	MF964600
<i>P. xylebori</i>		1028HS02	MF784948	MF964599
<i>P. xylosilytica</i>	<i>Cyberlindnera xylosilytica</i>	NRRL YB-2097 ^T = CBS 13984	NG_064313	NR_172382
<i>Ruyongia</i> gen. nov. (<i>Wickerhamomyces chambardii</i> clade)				
<i>R. chambardii</i> comb. nov.	<i>Wickerhamomyces chambardii</i>	NRRL Y-2378 ^T = CBS 1900	U74590	NR_154969
<i>R. mori</i> comb. nov.	<i>Wickerhamomyces mori</i>	CBS 12678 ^T	NG_064343	NR_160438
<i>R. namnaoensis</i> comb. nov.	<i>Candida namnaoensis</i>	CBS 12175 ^T	KY106594	KY102224
<i>R. patagonica</i> comb. nov.	<i>Wickerhamomyces patagonicus</i>	CBS 11398 ^T	NG_057185	NR_137719
<i>R. ponderosae</i> comb. nov.	<i>Candida ponderosae</i>	NRRL YB-2307 ^T = CBS 8801	NG_057178	KY102338
<i>R. rarassimilans</i> comb. nov.	<i>Pichia rarassimilans</i>	CBS 10901 ^T	NG_055081	KY104644
<i>R. tratensis</i> comb. nov.	<i>Wickerhamomyces tratensis</i>	CBS 12176 ^T	KY110150	KY105935
<i>Starmera sensu stricto</i>				
<i>S. amethionina</i>		NRRL Y-10978 ^T = CBS 6940	NG_058405	genome
<i>S. caribaea</i>		NRRL Y-17468 ^T = CBS 7692	KY109776	KY105539
<i>S. foglemanii</i>		CBS 16113 ^T = UFMG-CM-Y6337	MG807013	MN990206
<i>S. pachycereana</i>		NRRL Y-10981 ^T = CBS 6943	NG_059915	genome
<i>S. pilosocereana</i>		CBS 13266 ^T	KF666636	KP036617
<i>S. stellimalicola</i>		NRRL Y-17912 ^T = CBS 7853	U84234	KY102417
<i>Taiozyma</i> gen. nov. (<i>Wickerhamomyces bovis</i> clade)				
<i>T. bovis</i> comb. nov.	<i>Wickerhamomyces bovis</i>	NRRL YB-4184 ^T = CBS 2616	KY110109	NR_154968

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>T. dajiaensis</i> sp. nov.	<i>Candida dajiaensis</i>	CBS 10590 ^T	NG_057181	NR_154959
<i>T. odintsovae</i> comb. nov.	<i>Candida odintsovae</i>	NRRL Y-17760 ^T = CBS 6026	U70182	NR_077084
<i>T. onychis</i> comb. nov.	<i>Wickerhamomyces onychis</i>	NRRL Y-7123 ^T = CBS 5587	U75421	KY105910
<i>T. peoriensis</i> comb. nov.	<i>Candida peoriensis</i>	CBS 8800 ^T = NRRL YB-1497	KY106687	KY102329
<i>T. rabaulensis</i> comb. nov.	<i>Wickerhamomyces rabaulensis</i>	NRRL Y-7945 ^T = CBS 6797	KY110128	NR_138207
<i>T. yuanshanica</i> sp. nov.	<i>Candida yuanshanica</i>	CBS 10589 ^T	KY106892	KY102522
Waltiozyma (<i>Wickerhamomyces mucosus</i> + <i>Wickerhamomyces pijperi</i> clade)				
<i>W. chaumierensis</i> comb. nov.	<i>Wickerhamomyces chaumierensis</i>	CBS 8565 ^T	NG_057180	HM156503
<i>W. mucosa</i>	<i>Wickerhamomyces mucosus</i>	NRRL YB-1344 ^T = CBS 6341	KY110124	NR_154970
<i>W. pijperi</i> comb. nov.	<i>Wickerhamomyces pijperi</i>	NRRL YB-4309 ^T = CBS 2887	KY110127	KY105912
<i>W. solani</i> comb. nov.	<i>Candida solani</i>	NRRL Y-2224 ^T = JCM 2339 = CBS 1908	U70179	KY102402
<i>W. xylosica</i>	<i>Wickerhamomyces xylosica</i>	CBS 12320 ^T	NG_064304	NR_160310
Wickerhamomyces sensu stricto				
<i>W. alni</i>		NRRL Y-11625 ^T = CBS 6986	KY110065	NR_154966
<i>W. bisporus</i>		NRRL Y-1482 ^T = CBS 1890	U74589	KY105897
<i>W. canadensis</i>		NRRL Y-1888 ^T = CBS 1992	EF550300	genome
<i>W. corioli</i>		CGMCC 2.6969 ^T	OQ179822	OQ179818
<i>W. jianshihensis</i> sp. nov.	<i>Candida jianshihensis</i>	CBS 10591 ^T	KY106533	KY102165
<i>W. menglaensis</i>		NYNU1673 ^T = CBS 14689	KY213812	KY213818
<i>W. ochangensis</i>		CBS 11843 ^T	HM485464	NR_154971
<i>W. orientalis</i>		CBS 13306 ^T	KF938676	KF938677
<i>W. psychrolipolyticus</i>		NBRC 113263 ^T	LC333101	\
<i>W. quercuum</i> comb. nov.	<i>Candida quercuum</i>	NRRL Y-12942 ^T = CBS 6422	U70184	KY102354
<i>W. sinyiensis</i>		EN27S07 ^T	MW755436	MF737103
<i>W. ulmi</i> comb. nov.	<i>Candida ulmi</i>	NRRL YB-2694 ^T = CBS 8670	NG_057160	genome
single-species lineage <i>Wickerhamomyces kurtzmanii</i>				
<i>Wickerhamomyces kurtzmanii</i>		CBS 15418 ^T	MK573939	NR_173823
single-species lineage <i>Wickerhamomyces silvicola</i>				
<i>Wickerhamomyces silvicola</i>		NRRL Y-1678 ^T = CBS 1705	U74588	NR_155012
Williopsis (<i>Williopsis</i> clade)				

Table S2. List of yeasts and GenBank numbers used for the rDNA phylogenetic analysis (Continue)

Taxa	Basionym or important synonym	Strain (T=type)	D1/D2	ITS
<i>W. culbertsonii</i> sp. nov.	<i>Cyberlindnera culbertsonii</i>	CBS 13898 ^T	NG_058894	KM384448
<i>W. dauci</i> comb. nov.	<i>Cyberlindnera dauci</i>	DSM 111207 ^T = CBS 16524	MT636878	MT636878
<i>W. galapagoensis</i> comb. nov.	<i>Cyberlindnera galapagoensis</i>	CBS 13997 ^T = CLQCA 24SC-025	KJ020281	NR_159816
<i>W. jadinii</i> comb. nov.	<i>Cyberlindnera jadinii</i>	NRRL Y-324 ^T = CBS 566	NG_056278	NR_111211
<i>W. lachancei</i> comb. nov.	<i>Cyberlindnera lachancei</i>	NRRL Y-27008 ^T = CBS 8557	KY107372	KY103063
<i>W. macluriae</i> comb. nov.	<i>Cyberlindnera macluriae</i>	NRRL Y-5377 ^T = CBS 8671	KY107373	KY103065
<i>W. mengyuniae</i> comb. nov.	<i>Candida mengyuniae</i>	CBS 10845 ^T	NG_064316	NR_159549
<i>W. misumaiensis</i> comb. nov.	<i>Cyberlindnera misumaiensis</i>	NRRL Y-17389 ^T = CBS 8062	KY107377	KY103070
<i>W. mrakii</i>	<i>Cyberlindnera mrakii</i>	NRRL Y-1364 ^T = CBS 1707	KY107382	KY103075
<i>W. samutprakarnensis</i> sp. nov.	<i>Cyberlindnera samutprakarnensis</i>	CBS 12528 ^T	KY107391	KY103084
<i>W. sargentensis</i> comb. nov.	<i>Cyberlindnera sargentensis</i>	CBS 6342 ^T = NRRL YB-4139	KY107392	NR_165970
<i>W. saturnus</i>	<i>Cyberlindnera saturnus</i>	NRRL Y-17396 ^T = CBS 254	U75958	KY103100
<i>W. suaveolens</i>	<i>Cyberlindnera suaveolens</i>	NRRL Y-17391 ^T = CBS 255	U94930	KY103113
<i>W. subsufficiens</i>	<i>Cyberlindnera subsufficiens</i>	NRRL Y-1657 ^T = CBS 5763	KY107420	KY103114
<i>W. takata</i> sp. nov.	<i>Candida takata</i>	CBS 12244 ^T	KY106789	KY102424
<i>W. tropicalis</i> comb. nov.	<i>Cyberlindnera tropicalis</i>	CBS 14558 ^T = TBRC 6562	KY010353	KY010353
<i>W. vartiovaarae</i> comb. nov.	<i>Candida vartiovaarae</i>	NRRL Y-6701 ^T	U69875	KY102493
<i>Xingzhongia</i> gen. nov. (<i>Wickerhamomyces hampshirensis</i> clade)				
<i>X. hampshirensis</i> comb. nov.	<i>Wickerhamomyces hampshirensis</i>	NRRL YB-4128 ^T = CBS 7208	KY110121	KY105905
<i>X. scolytoplatypi</i> comb. nov.	<i>Wickerhamomyces scolytoplatypi</i>	CBS 12186 ^T	KY110130	KY105915
<i>X. strasburgensis</i> comb. nov.	<i>Wickerhamomyces strasburgensis</i>	NRRL Y-2383 ^T = CBS 2939	U74591	NR_154973
<i>Candida</i> sp.		KBP:Y-5949	OP740285	OP740285
<i>Cyberlindnera</i> sp.		Y-82	OR651375	OR651375

Abbreviations: + = positive; - = negative; v = variable; w = weak; d = delay; n = not available.

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study

Taxa	Strains	Azole resistance-associated gene								Polyene resistance- associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance- associated gene
		ERG11								ERG2	FKS1		FUR1
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S	F105SfsX23	S645P/Y/F	F641Y	F211I
<i>Dipodascomyces</i>													
<i>Casaregolazyma</i>	<i>Candida lundiana</i> CBS 12271	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida patagonica</i> CBS 10443	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida suthepensis</i> CBS 12270	F	Y	K	F	G	F	G	G	F	S	F	F
<i>Dengshuqunia</i>	<i>Candida hispaniensis</i> NRRL Y-5580	F	Y	K	F	G	F	G	G	F	S	F	F
<i>Grinbergsozyma</i>	<i>Candida bentonensis</i> NRRL YB-2364	F	Y	K	F	G	F	G	G	F	S	F	-
<i>Pichiomyces</i>													
<i>Pichiales</i>													
<i>Ramirezia</i>	<i>Candida boidinii</i> NRRL Y- 2332	F	Y	K	F	G	F	G	G	F	S	F	F
<i>Wenyingozyma</i>	<i>Candida methanosorbosa</i> NRRL Y-17320	F	Y	K	F	G	F	G	G	F	S	F	F

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study (Continue)

Taxa	Strains	Azole resistance-associated gene								Polyene resistance-associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance-associated gene
		ERG11								ERG2	FKS1		FUR1
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S	F105SfsX23	S645P/Y/F	F641Y	F211I
<i>Xiuguozyma</i>	<i>Candida nanaspora</i> NRRL Y-17679	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida nitratophila</i> NRRL YB-3654	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida succiphila</i> JCM 9445	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida sukuzii</i> NRRL Y-27593	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida insectalens</i> NRRL Y-7778	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida silvatica</i> NRRL Y-7777	F	Y	K	F	G	F	G	G	F	-	-	F
<i>Serinales</i>													
<i>Candida</i>	<i>Candida albicans</i> SC5314	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida buenavistaensis</i> NRRL Y-27734	F	Y	K	F	G	F	G	G	F	S	F	-

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study (Continue)

Taxa	Strains	Azole resistance-associated gene								Polyene resistance- associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance- associated gene
		ERG11								ERG2	FKS1		FUR1
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S	F105SfsX23	S645P/Y/F	F641Y	F211I
	<i>Candida dubliniensis</i> CD36	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida frijolesensis</i> NRRL Y-48060	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida gigantensis</i> NRRL Y-27736	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida labiduridarum</i> NRRL Y-27940	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida maltosa</i> Xu316	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida neerlandica</i> NRRL Y-27057	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida pseudoviswanathii</i> CBS 13916	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida sanyaensis</i> CBS 12637	F	Y	K	F	-	-	-	-	F	S	F	F

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study (Continue)

Taxa	Strains	Azole resistance-associated gene								Polyene resistance- associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance- associated gene
		ERG11								ERG2	FKS1		FUR1
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S	F105SfsX23	S645P/Y/F	F641Y	F211I
<i>Chernozozyma</i>	<i>Candida sojae</i> GF41	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida tetrigidarum</i> NRRL Y-48142	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida tropicalis</i> MYA- 3404	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida viswanathii</i> NRRL Y-6660	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida aurita</i> CBS 9724	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida palmyrensis</i> CBS 11546	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida sophiae-reginae</i> NRRL Y-17668	F	Y	K	F	G	F	G	G	F	S	F	F
<i>Dujonia</i>	<i>Candida boleticola</i> NRRL Y-17080	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida oleophila</i> NRRL Y-2317	F	Y	K	F	G	F	G	G	F	S	F	F

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study (Continue)

Taxa	Strains	Azole resistance-associated gene								Polyene resistance- associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance- associated gene
		ERG11								ERG2	FKS1		FUR1
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S	F105SfsX23	S645P/Y/F	F641Y	F211I
	<i>Candida railenensis</i> CLIB 1423	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida santamariae</i> NRRL Y-6656	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida schatavii</i> NRRL Y-17078	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida zeylanoides</i> NRRL Y-1774	F	Y	K	F	G	F	G	G	F	S	F	F
<i>Fermentozyma</i>	<i>Candida sake</i> NRRL Y- 1622	F	Y	K	F	G	F	G	G	F	A	F	F
<i>Glucitozyma</i>	<i>Candida multigemmis</i> NRRL Y-17659	F	Y	K	F	G	F	G	G	F	A	F	F
<i>Hemisphaerica spora</i>	<i>Candida lyxosophila</i> NRRL Y-17539	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida subhashii</i> CBS 10753	F	Y	K	F	G	F	G	G	F	S	F	F

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study (Continue)

Taxa	Strains	Azole resistance-associated gene								Polyene resistance- associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance- associated gene
		ERG11								ERG2	FKS1		FUR1
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S	F105SfsX23	S645P/Y/F	F641Y	F211I
<i>Insectozyma</i>	<i>Candida xylanilytica</i> NBRC 106499	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida bohioensis</i> NRRL Y-27737	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida chauliodis</i> NRRL Y-27909	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida coleopterorum</i> CBS 14180	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida corydali</i> NRRL Y- 27910	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida morakotiae</i> NRRL Y-48708	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida parachauliodis</i> CBS 13928	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida sakaeoensis</i> CBS 12318	F	Y	K	F	G	F	G	G	F	S	F	F

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study (Continue)

Taxa	Strains	Azole resistance-associated gene								Polyene resistance- associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance- associated gene
		ERG11								ERG2	FKS1		FUR1
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S	F105SfsX23	S645P/Y/F	F641Y	F211I
	<i>Candida verbasci</i> CBS 12699	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida xiaguanensis</i> CBS 13923	F	Y	K	F	G	F	G	G	F	S	F	-
<i>Intestinozyma</i>	<i>Candida alai</i> NRRL Y- 27739	F	Y	K	F	G	F	G	G	F	S	F	F
<i>Keqinozyma</i>	<i>Candida nonsorbophila</i> CBS 10862	F	Y	K	F	G	F	G	G	F	S	F	-
	<i>Candida sinolaborantium</i> LESF1467	F	Y	K	F	G	F	G	G	F	S	F	F
<i>Lodderomyces</i>	<i>Candida jiufengensis</i> CBS 10846	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida margitis</i> CBS 14175	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida metapsilosis</i> ATCC 96143	F	Y	K	F	G	F	G	G	F	S	F	F

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study (Continue)

Taxa	Strains	Azole resistance-associated gene								Polyene resistance- associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance- associated gene
		ERG11								ERG2	FKS1		FUR1
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S	F105SfsX23	S645P/Y/F	F641Y	F211I
	<i>Candida orthopsilosis</i> Co 90-125	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida oxycetoniae</i> CBS 10844	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida parapsilosis</i> ATCC 22019	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida pseudojiufengensis</i> CBS 10847	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida theae</i> CBS 12239	F	Y	K	F	G	F	G	G	F	S	F	F
<i>Nothofagozyma</i>	<i>Candida chilensis</i> NRRL Y-17141	F	Y	K	F	G	F	G	G	F	S	F	F
<i>Suzukiozyma</i>	<i>Candida fluviatilis</i> NRRL Y-7711	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida glaebosa</i> NRRL Y-6949	F	Y	K	F	G	F	G	G	F	S	F	F

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study (Continue)

Taxa	Strains	Azole resistance-associated gene								Polyene resistance-associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance-associated gene		
		ERG11									ERG2	FKS1		FUR1	
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S		F105SfsX23	S645P/Y/F		F641Y	F211I
<i>Buckleya</i>	<i>Candida freyschussii</i> NRRL Y-7957A	F	Y	K	F	G	F	G	G	F	S	F	F		
<i>Gotozyma</i>	<i>Candida montana</i> NRRL Y-17326	F	Y	K	F	G	F	G	G	F	S	F	F		
<i>Liangdongia</i>	<i>Candida berthetii</i> NRRL Y-17644	-	-	-	-	G	F	G	G	F	S	F	F		
	<i>Candida dendrica</i> NRRL Y-7775	F	Y	K	F	G	F	G	G	F	S	F	F		
<i>Ruyongia</i>	<i>Candida namnaoensis</i> CBS 12175	F	Y	K	F	G	F	G	G	F	S	F	F		
	<i>Candida ponderosae</i> NRRL YB-2307	F	Y	K	F	G	F	G	G	F	S	F	F		
<i>Taiozyma</i>	<i>Candida dajiaensis</i> CBS 10590	F	Y	K	F	G	F	G	G	F	S	F	F		
	<i>Candida odintsovae</i> NRRL Y-17760	F	Y	K	F	G	F	G	G	F	S	F	F		

Table S4. The antifungal resistance profiles of *Candida* species assigned to the newly created genera in this study (Continue)

Taxa	Strains	Azole resistance-associated gene								Polyene resistance- associated gene	Echinocandin resistance-associated gene		Nucleoside analog resistance- associated gene
		ERG11								ERG2	FKS1		FUR1
		F126L	Y132F	K143R	F145L	G448E	F449V	G450E	G464S	F105SfsX23	S645P/Y/F	F641Y	F211I
	<i>Candida peoriensis</i> NRRL YB-1497	F	Y	K	F	G	F	G	G	F	S	F	F
	<i>Candida yuanshanica</i> CBS 10589	F	Y	K	F	G	F	G	G	F	S	F	F

The bold and italics indicate a mutation in the antifungal resistance gene locus.

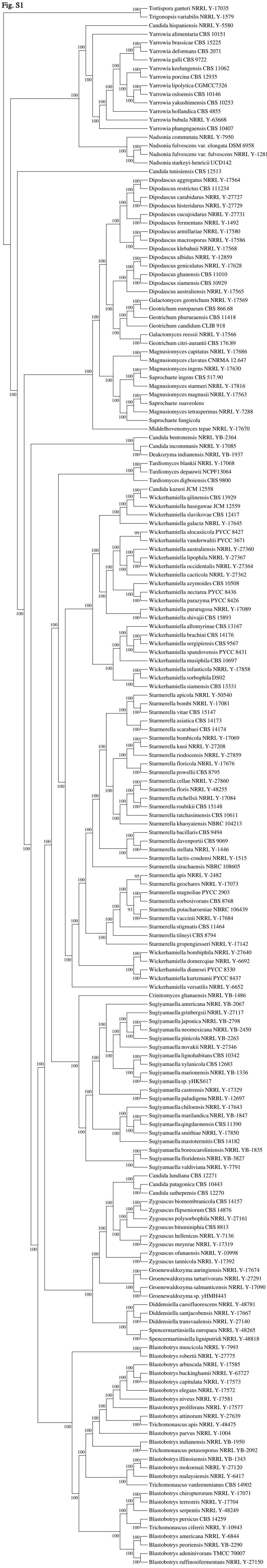


Fig. S2

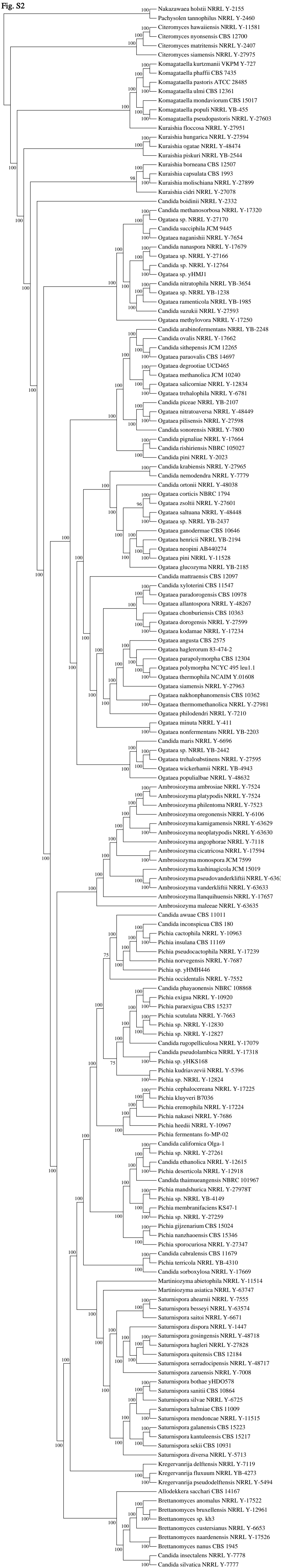
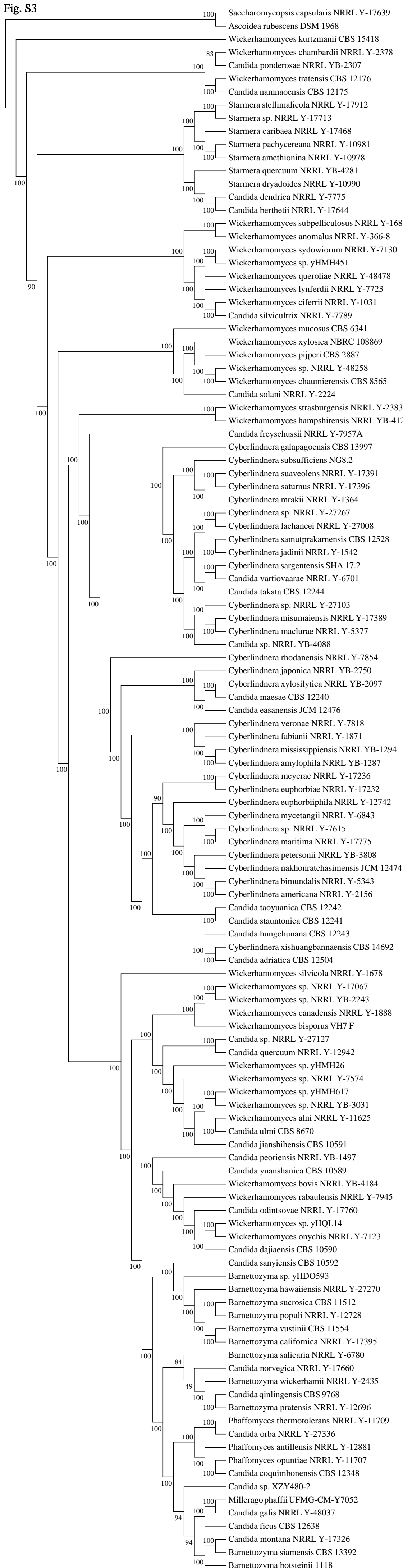


Fig. S3



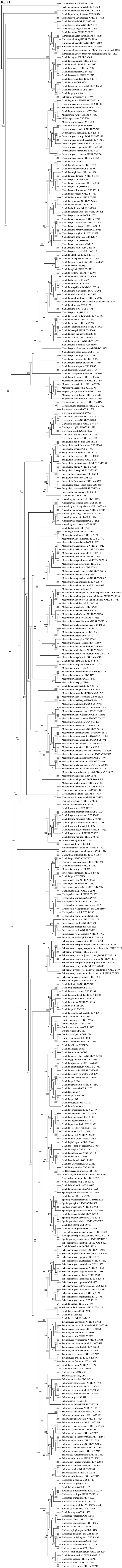


Fig. S5

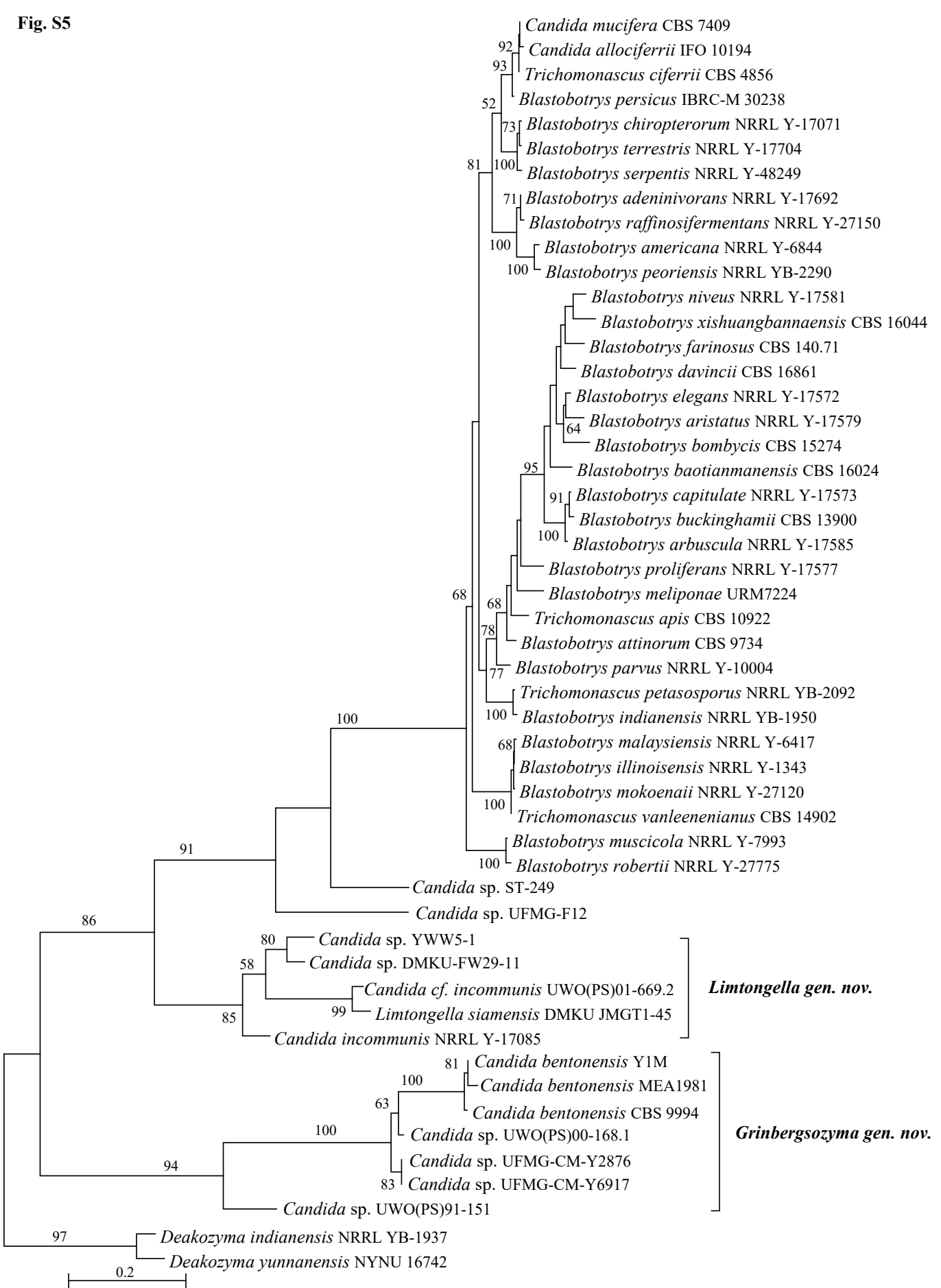


Fig. S6

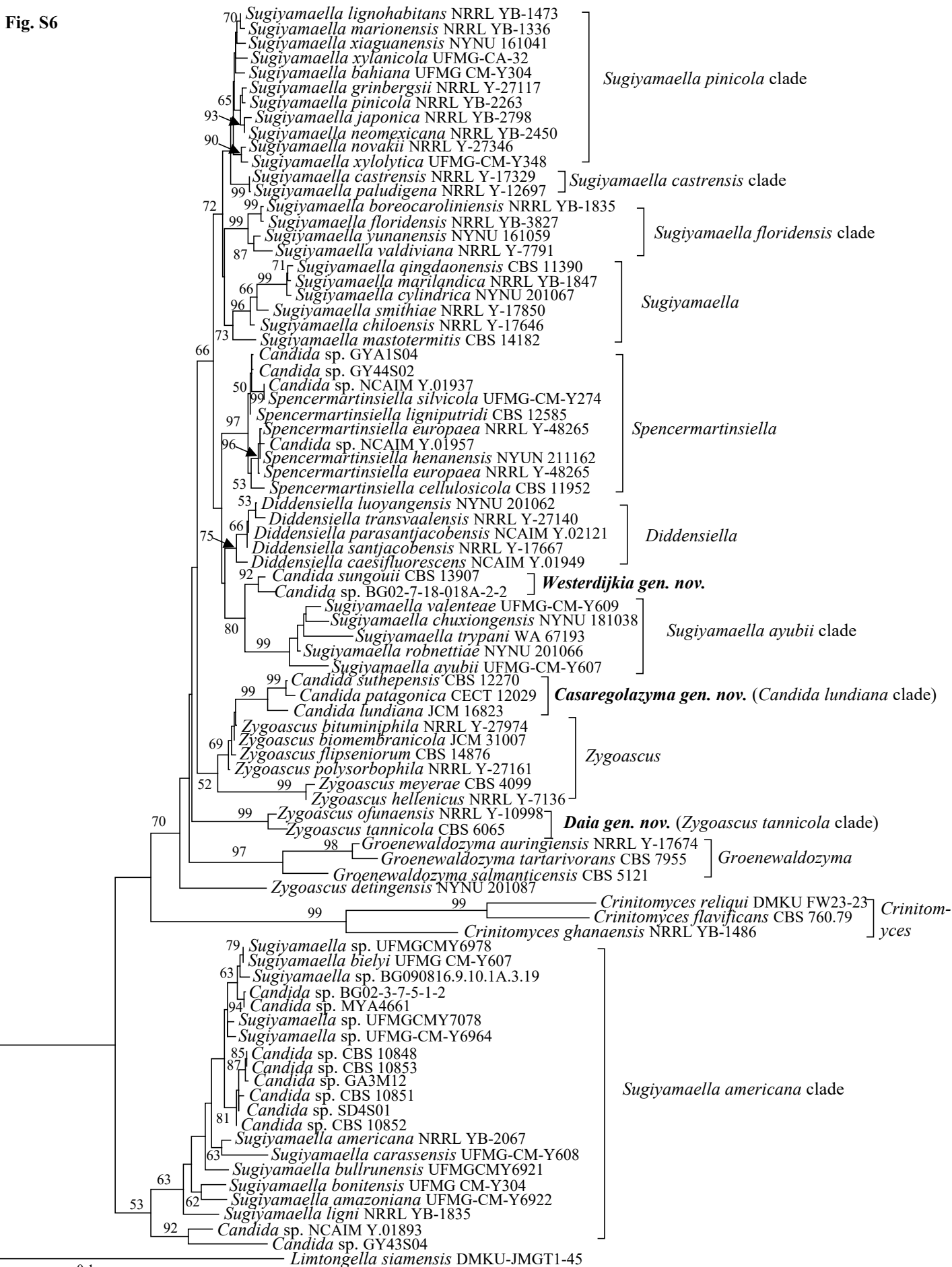


Fig. S7

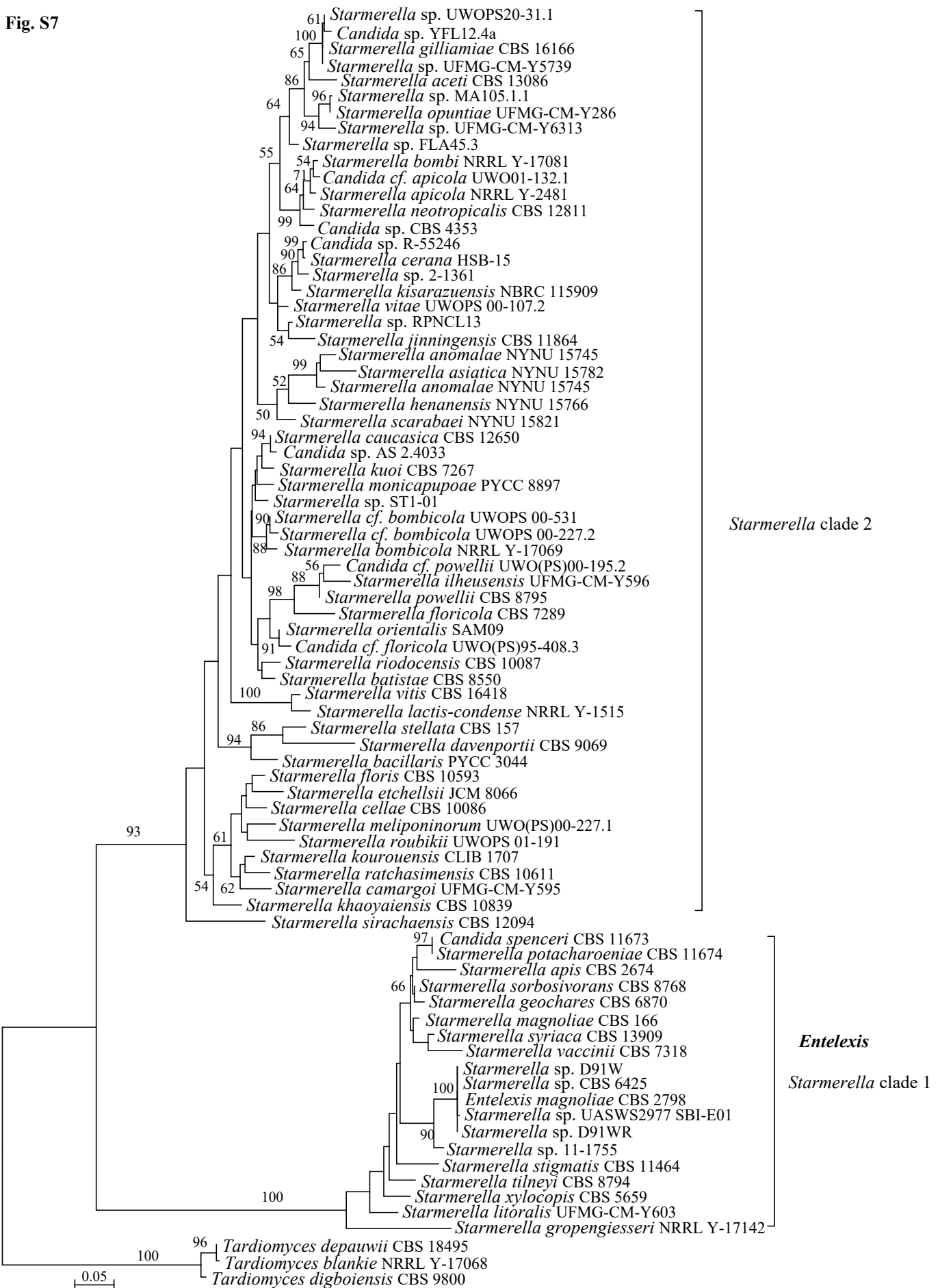


Fig. S8

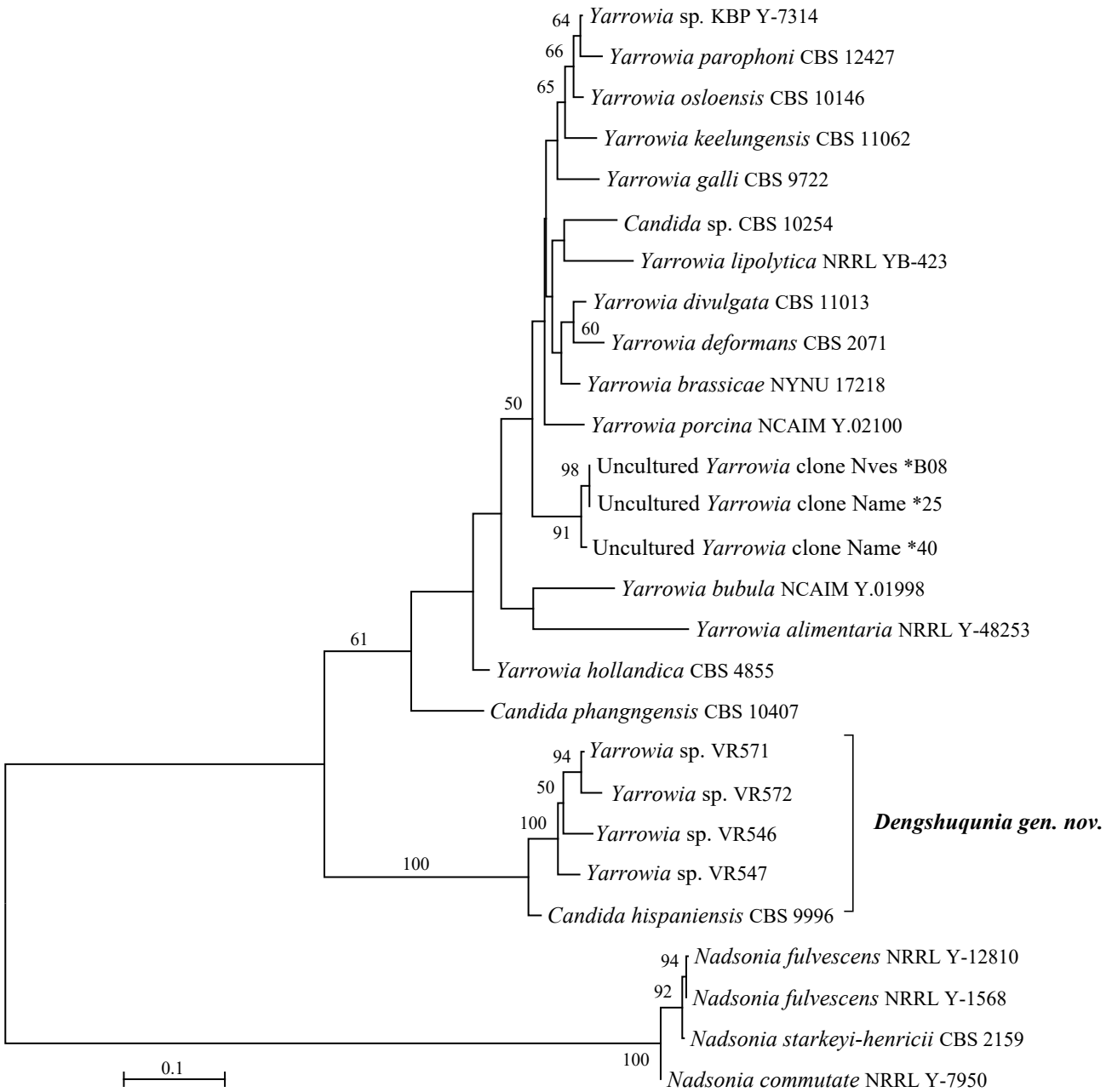


Fig. S9

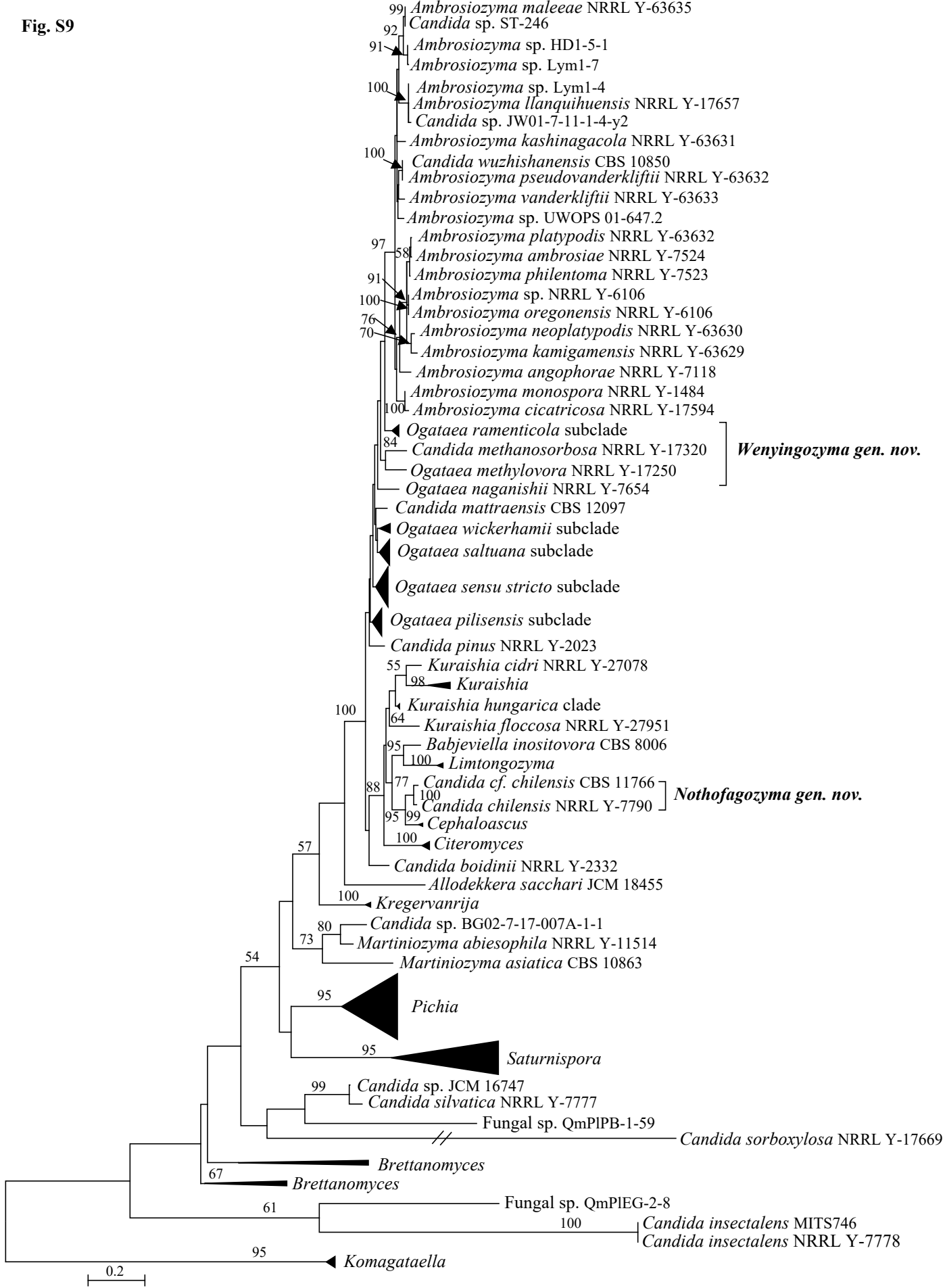


Fig. S10

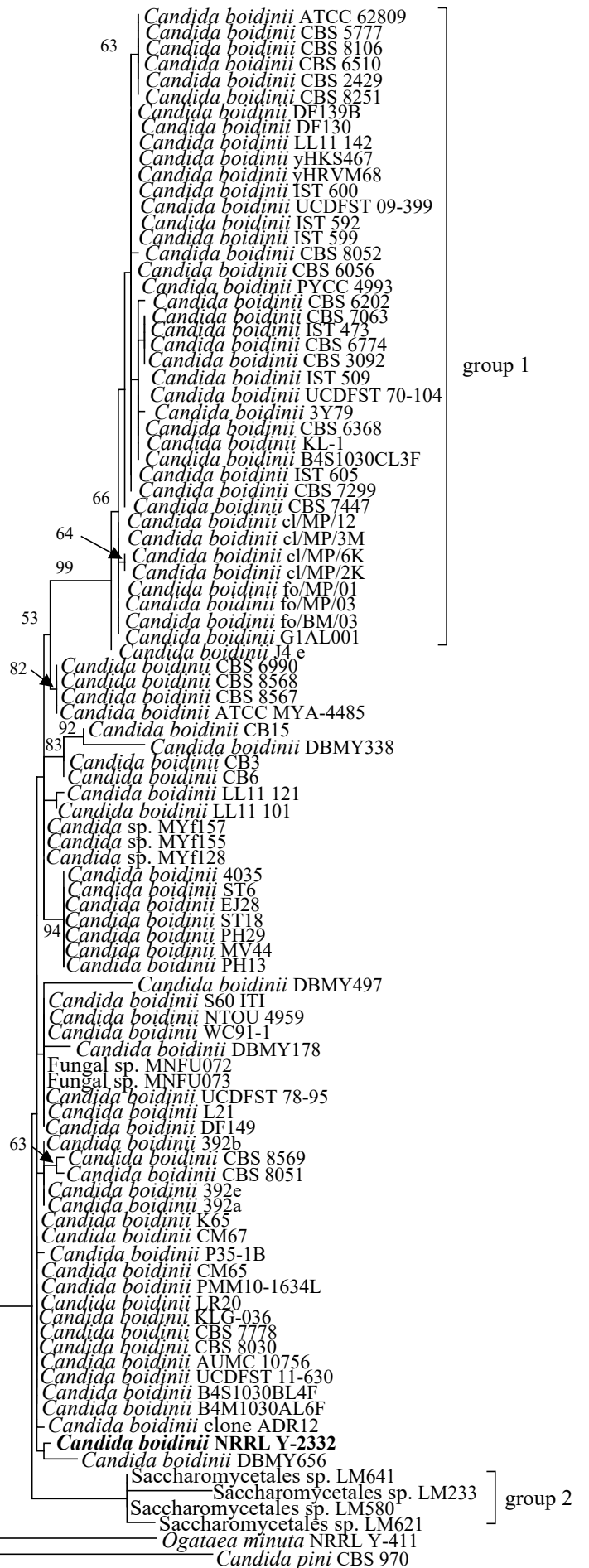


Fig. S11



Fig. S12

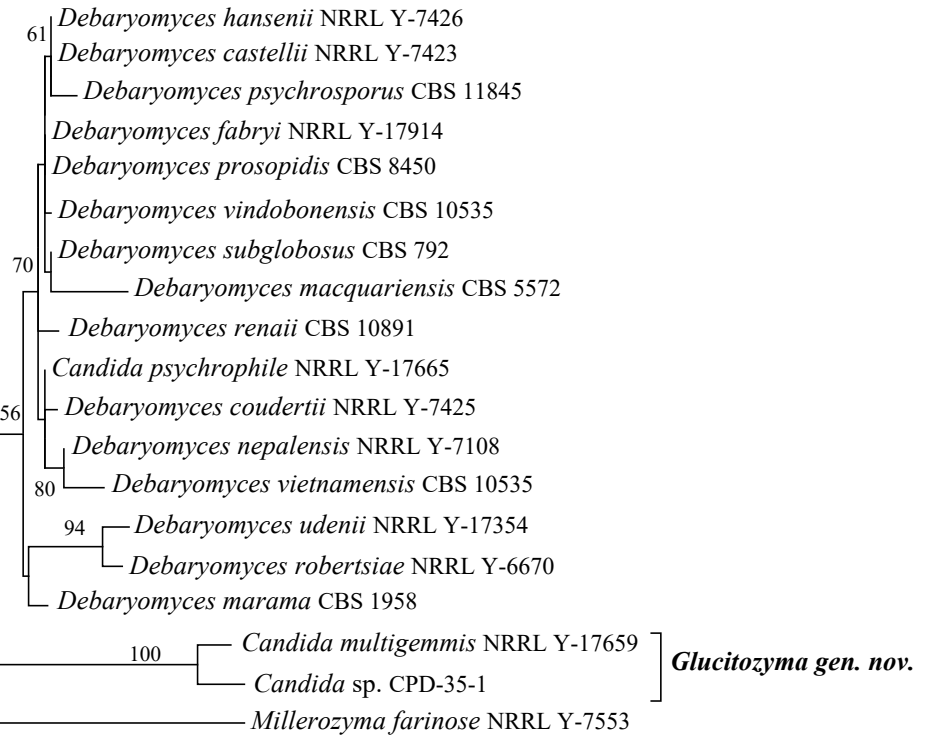


Fig. S13

