

Table S1 The detailed information regarding strains tested in this study

Strain	Major genotype	Source	Geographical Origin	Reference
<i>C. neoformans</i>				
var. <i>grubii</i>				
H99	VNI	CSF	USA	1
WM148	VNI	CSF	Australia	2
MAS92-0006	VNI	NA	USA	1
RV45886	VNI	NA	Belgium	1
RV67754	VNI	NA	Belgium	1
RV67746	VNI	NA	Belgium	1
XH1	VNI	CSF	East China	3
XH2	VNI	CSF	East China	3
XH6	VNI	CSF	East China	3
XH7	VNI	Brain	East China	3
XH8	VNI	CSF	East China	3
XH9	VNI	CSF	East China	3
XH11	VNI	CSF	East China	3
XH13	VNI	CSF	East China	3
XH14	VNI	CSF	East China	3
XH15	VNI	CSF	East China	3
XH16	VNI	CSF	East China	3
XH17	VNI	CSF	East China	3
XH18	VNI	CSF	East China	3
XH19	VNI	CSF	East China	3
XH20	VNI	Sputum	East China	3
XH21	VNI	CSF	East China	3
XH22	VNI	CSF	East China	3
XH25	VNI	CSF	East China	3
XH26	VNI	Skin	East China	3
XH27	VNI	CSF	East China	3
XH28	VNI	Sputum	East China	3
XH29	VNI	CSF	East China	3
XH30	VNI	CSF	East China	3
XH33	VNI	CSF	East China	3
XH34	VNI	CSF	East China	3
XH35	VNI	CSF	East China	3
XH36	VNI	CSF	East China	3
XH37	VNI	CSF	East China	3
XH38	VNI	CSF	East China	3
XH39	VNI	CSF	East China	3
XH40	VNI	Blood	East China	3
XH41	VNI	CSF	East China	3

Strain	Major genotype	Source	Geographical Origin	Reference
XH42	VNI	CSF	East China	3
XH43	VNI	CSF	East China	3
XH44	VNI	CSF	East China	3
XH45	VNI	CSF	East China	3
XH46	VNI	CSF	East China	3
XH47	VNI	CSF	East China	3
XH49	VNI	CSF	East China	3
XH50	VNI	CSF	East China	3
XH51	VNI	CSF	East China	3
XH52	VNI	CSF	East China	3
XH48	VNI	CSF	East China	3
XH53	VNI	CSF	East China	3
XH54	VNI	CSF	East China	3
XH55	VNI	CSF	East China	3
XH57	VNI	Lung	East China	3
XH58	VNI	CSF	East China	3
XH59	VNI	CSF	East China	3
XH60	VNI	CSF	East China	3
XH61	VNI	CSF	East China	3
XH62	VNI	CSF	East China	3
XH63	VNI	CSF	East China	3
XH64	VNI	CSF	East China	3
XH65	VNI	CSF	East China	3
XH66	VNI	CSF	East China	3
XH67	VNI	Blood	East China	3
XH68	VNI	Sputum	East China	3
XH69	VNI	CSF	East China	3
XH70	VNI	CSF	East China	3
XH71	VNI	CSF	East China	3
XH73	VNI	Skin	East China	3
XH74	VNI	CSF	East China	3
XH75	VNI	CSF	East China	3
XH113	VNI	CSF	East China	3
XH114	VNI	CSF	East China	3
XH76	VNI	CSF	South China	3
XH77	VNI	Blood	South China	3
XH78	VNI	CSF	South China	3
XH79	VNI	CSF	South China	3
XH80	VNI	CSF	South China	3
XH81	VNI	CSF	South China	3
XH82	VNI	CSF	South China	3
XH83	VNI	CSF	South China	3

Strain	Major genotype	Source	Geographical Origin	Reference
XH84	VNI	CSF	South China	3
XH85	VNI	CSF	South China	3
XH86	VNI	Blood	South China	3
XH87	VNI	CSF	South China	3
XH88	VNI	CSF	South China	3
XH89	VNI	CSF	South China	3
XH90	VNI	CSF	South China	3
XH92	VNI	CSF	South China	3
XH93	VNI	Blood	South China	3
XH94	VNI	Blood	South China	3
XH95	VNI	Blood	South China	3
XH96	VNI	CSF	South China	3
XH97	VNI	CSF	Central China	3
XH98	VNI	Brain	Central China	3
XH99	VNI	Blood	Central China	3
XH100	VNI	CSF	Central China	3
XH101	VNI	Blood	Central China	3
XH102	VNI	CSF	Central China	3
XH112	VNI	CSF	Central China	3
XH103	VNI	CSF	North China	3
XH104	VNI	CSF	North China	3
XH105	VNI	Sputum	North China	3
XH106	VNI	CSF	North China	3
XH107	VNI	Ascites	North China	3
XH116	VNI	Skin	North China	3
XH108	VNI	CSF	South West China	3
XH109	VNI	CSF	South West China	3
XH110	VNI	CSF	South West China	3
XH115	VNI	CSF	North East China	3
XH119	VNI	CSF	East China	*
XH120	VNI	CSF	South China	*
XH121	VNI	CSF	South China	*
XH122	VNI	CSF	South China	*
XH123	VNI	CSF	South China	*
XH124	VNI	CSF	South China	*
XH125	VNI	CSF	South China	*
XH126	VNI	Lung	South China	*
XH127	VNI	Lung	South China	*
XH128	VNI	CSF	South China	*
XH129	VNI	Clinical	South China	*
XH130	VNI	Wound	South China	*
XH131	VNI	Blood	South China	*

Strain	Major genotype	Source	Geographical Origin	Reference
XH132	VNI	Clinical	South China	*
XH134	VNI	Clinical	South China	*
XH135	VNI	Clinical	South China	*
XH136	VNI	Clinical	South China	*
XH137	VNI	Clinical	South China	*
XH138	VNI	Clinical	South China	*
XH139	VNI	CSF	South China	*
XH140	VNI	Clinical	South China	*
XH141	VNI	Clinical	South China	*
XH142	VNI	Clinical	South China	*
XH143	VNI	Clinical	South China	*
XH144	VNI	Clinical	South China	*
XH145	VNI	Clinical	South China	*
XH146	VNI	Clinical	South China	*
XH147	VNI	Clinical	South China	*
XH148	VNI	Blood	East China	*
XH149	VNI	Skin	East China	*
XH150	VNI	Sputum	East China	*
XH151	VNI	Blood	South China	*
XH152	VNI	CSF	South China	*
XH153	VNI	Blood	South China	*
XH154	VNI	Blood	South China	*
XH155	VNI	CSF	South China	*
XH157	VNI	CSF	South China	*
XH158	VNI	CSF	South China	*
XH159	VNI	CSF	South China	*
XH160	VNI	Blood	South China	*
XH163	VNI	CSF	South China	*
XH161	VNI	Blood	South China	*
XH164	VNI	Blood	South China	*
XH165	VNI	CSF	South China	*
WM626	VNII	CSF	Australia	2
c12	VNII	Lung	USA	4
c45	VNII	Sputum	USA	4
A7 35-23	VNII	Pigeon	USA	4
571-152	VNII	Cat	Australia	1
571-154	VNII	Cat	Australia	1
571-160	VNII	Cat	Australia	1
bt34	VNB	CSF	Botswana	4
bt84	VNB	CSF	Botswana	4
bt60	VNB	CSF	Botswana	4
bt88	VNB	CSF	Botswana	4

Strain	Major genotype	Source	Geographical Origin	Reference
bt206	VNB	CSF	Botswana	4
bt63	VNB	CSF	Botswana	4
<i>var. neoformans</i>				
RV51276	VNIV	Clinical	France	1
JEC21	VNIV	Laboratory	USA	1
RV60047	VNIV	Skin	Belgium	1
WM629	VNIV	Blood	Australia	2
YD26	VNIV	NA	Italy	1
CDC92-18	VNIV	NA	CDC	1
RV45980	VNIV	Laboratory	USA	1
JEC20	VNIV	Laboratory	USA	1
NIH430	VNIV	Clinical	Denmark	1
NIH433	VNIV	Environmental	Denmark	1
B-3502	VNIV	Laboratory	USA	1
YD53	VNIV	NA	Italy	1
XH56	VNIV	CSF	East China	1
XH117	VNIV	CSF	East China	1
AD hybrid				
RV53164	VNIII	NA	Belgium	1
YD38	VNIII	NA	Italy	1
WM628	VNIII	CSF	Australia	2
MMRL774	VNIII	Clinical	USA	1
RV33370	VNIII	Clinical	Belgium	1
XH118	VNIII	CSF	North West China	1
ATCC48184	VNIII	avian	Japan	1
IUM92-6198	VNIII	NA	Italy	1
ZG290	VNIII	Clinical	China	1
MMRL1365	VNIII	Clinical	USA	1
5-19	VNIII	Environmental	USA	1
6-20	VNIII	Environmental	USA	1
713	VNIII	NA	Italy	1
42-10	VNIII	Environmental	USA	1
XH12	VNIII	CSF	East China	3
XH10	VNIII	CSF	East China	3
CBS132	VNIII	fruit juice	Italy	*
<i>C. gattii</i>				
WM179	VGI	CSF	Australia	2
WM276	VGI	<i>Eucalyptus</i>	Australia	1
B5242	VGI	Clinical	USA	1

Strain	Major genotype	Source	Geographical Origin	Reference
E286	VGI	Environmental	Australia	1
RV66095	VGI	CSF	Brazil	1
RV3463	VGI	CSF	Belgium	1
RV66536	VGI	Clinical	Brazil	1
XH111	VGI	Mouse brain	North West China	1
RV8001	VGI	CSF	Belgium	1
RV52641	VGI	NA	Belgium	1
XH3	VGI	CSF	East China	1
XH4	VGI	CSF	East China	1
XH5	VGI	CSF	East China	1
XH23	VGI	CSF	East China	1
XH24	VGI	CSF	East China	1
XH31	VGI	CSF	East China	1
XH32	VGI	Sputum	East China	1
XH72	VGI	CSF	East China	1
XH133	VGI	Clinical	South China	*
E566	VGI	<i>Eucalyptus</i>	Australia	1
E276	VGI	<i>Eucalyptus</i>	Australia	1
E312	VGI	<i>Eucalyptus</i>	Australia	1
E554	VGI	<i>Eucalyptus</i>	Australia	1
C2077	VGI	Environmental	Australia	1
NT-2	VGI	Clinical	Australia	1
RV20186	VGI	CSF	Zaire	*
B4492	VGI	Clinical	Cambodia	*
R794	VGI	Clinical	Canada	*
F2863	VGI	Porpoise	Canada	*
KB7892	VGI	Arbutus	Canada	*
NIH444	VGII	Clinical	USA	1
R265	VGII	Clinical	Vancouver	1
ICB179	VGII	Environmental	Brazil	1
WM178	VGII	Lung	Australia	2
XH91	VGII	CSF	South China	1
R272	VGII	Clinical	Vancouver	1
2003/125	VGII	Clinical	France	1
CBS1930	VGII	Veterinary	Aruba	1
CBS10090	VGII	Clinical	Greece	*
XH156	VGII	CSF	South China	*
WM161	VGIII	<i>Eucalyptus</i>	USA	2
NIH179	VGIII	Clinical	NA	1
MAS92-0409	VGIII	NA	USA	1
NIH836	VGIII	Clinical	NA	1
NIH312	VGIII	CSF	USA	1

Strain	Major genotype	Source	Geographical Origin	Reference
RV45184	VGIII	NA	Belgium	1
B4546	VGIII	Clinical	NA	1
NIH191	VGIII	Clinical	USA	1
NIH198	VGIII	Clinical	NA	1
ICB108	VGIII	Clinical	Brazil	1
WM779	VGIV	Cheata	South Africa	2
MMRL2872	VGIV	Clinical	Botswana	1
MMRL2874	VGIV	Clinical	Botswana	1
MMRL2980	VGIV	Clinical	Botswana	1
MMRL2933	VGIV	Clinical	Botswana	1
YD48	VGIV	NA	Italy	1
Novel hybrids				
CBS10496(AB)	NA	Blood	Canada	*
CBS10488(BD)	NA	CSF	Netherlands	*
<i>C. laurentii</i>				
RV30994		NA	Belgium	*
Y-2536		Palm wine	NRRL	*
<i>C. albidus</i>				
Y-2090		Sputum	NRRL	*
XH268		Skin lesion	East China	*
<i>C. uniguttulatus</i>				
XH236		Nail	East China	*
XH284		Nail	East China	*
XH358		Mucosa	East China	*
<i>S. cerevisiae</i>				
W303-1A		Lab	Slovak Republic	*
XH248		Nail	East China	*
<i>T. asahii</i>				
Y-17953		Clinical	NRRL	*
XH196		Urine	South China	*
<i>R. mucilaginosa</i>				
Y-2510		NA	NRRL	*
XH299		Blood	South China	*
XH300		Blood	South China	*

Strain	Major genotype	Source	Geographical Origin	Reference
<i>C. albicans</i>				
ATCC10231		Clinical	ATCC	*
ATCC11006		Clinical	ATCC	*
XH183		Drain	South China	*
XH186		Bile	South China	*
XH312		Ascites	South China	*
<i>C. glabrata</i>				
ATCC90030		Blood	USA	*
2086		Faeces	Italy	*
XH390		Vaginal	East China	*
<i>C. tropicalis</i>				
ATCC750		Bronchus	ATCC	*
XH185		Urine	South China	*
XH393		Sputum	East China	*
<i>C. parapsilosis</i>				
CBS604		Sprue	Puerto Rico	*
XH313		CVC	South China	*
XH309		Blood	South China	*
<i>C. krusei</i>				
ATCC6258		Sputum	Sri Lanka	*
XH318		Nail	East China	*
<i>C. guilliermondii</i>				
CBS2030		Insect frass	USA	*
Y-324		Sputum	NRRL	*
YB-231		Infected ear	NRRL	*
<i>C. lusitaniae</i>				
Y-5393		Sputum	NRRL	*
XH224		Nail	East China	*
XH200		Sputum	South China	*
<i>C. kefyr</i>				
Y-2415		Yogurt	NRRL	*
XH297		Urine	South China	*
<i>C. famata</i>				
Y-17914		Mycotic lesion	NRRL	*

Strain	Major genotype	Source	Geographical Origin	Reference
XH209		Skin	East China	*
<i>C. rugosa</i>				
Y-95		Feces	NRRL	*
XH205		Urine	South China	*

* indicates strain that was either identified in this study or reference strain. NA, not available

References

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