

# Clinical and Mycologic Characteristics of Emerging Mucormycosis Agent *Rhizopus homothallicus*

## Appendix

**Appendix Table 1.** Accession numbers of 18 S ribosomal RNA sequences of the isolates used in the present study.

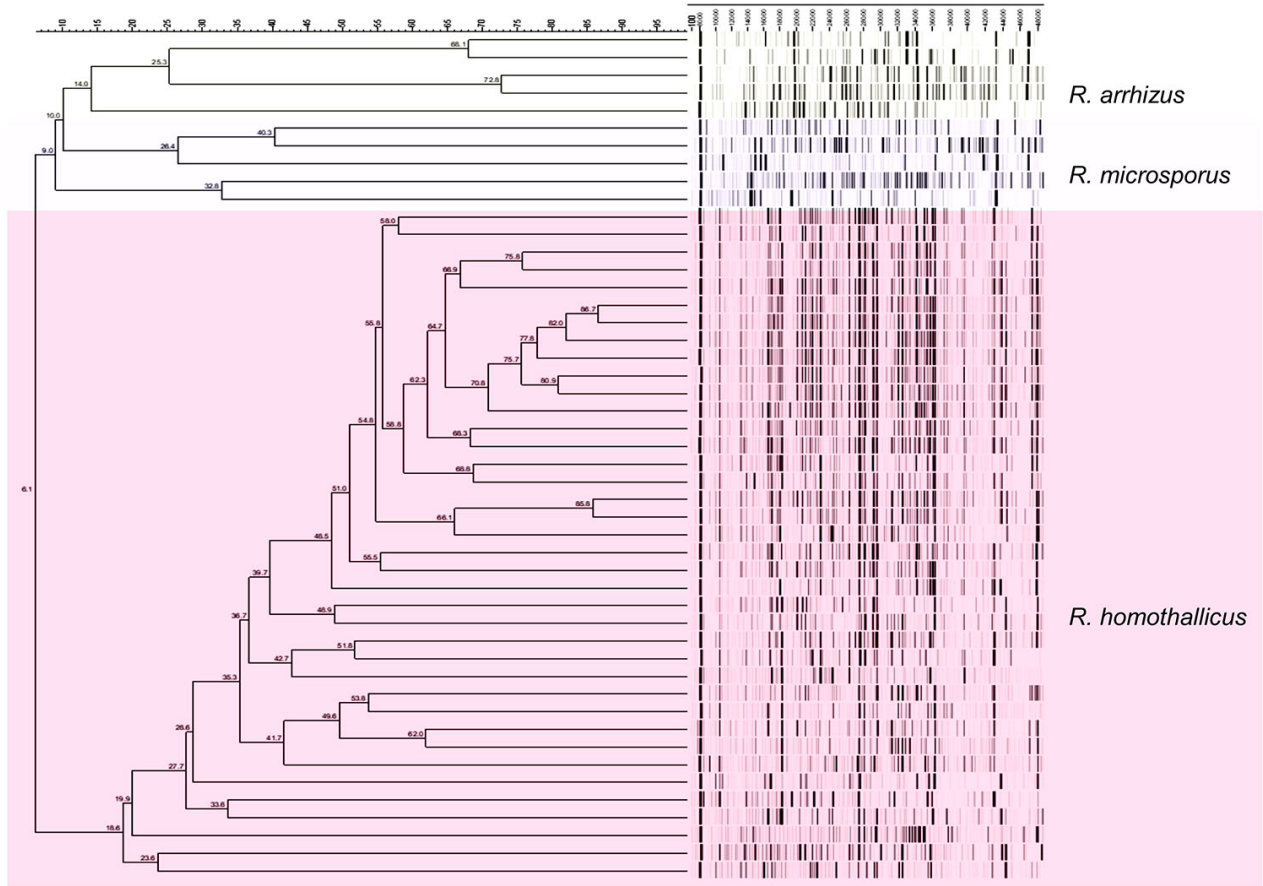
S no.	NCCPF no.	NCBI accession no.	Species	Site of isolation
1	710378	OM977050	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
2	710380	OM977051	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
3	710810	OM977052	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
4	710811	OM977053	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
5	710812	OM977054	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
6	710813	OM977055	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
7	710814	OM977056	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
8	710817	OM977057	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
9	710823	OM977058	<i>R. microsporus</i>	Rhino-orbital mucormycosis
10	710818	OM977059	<i>R. homothallicus</i>	Environmental
11	710555	OM977060	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
12	710600	OM977061	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
13	710668	OM977062	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
14	710799	OM977063	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
15	710800	OM977064	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
16	710801	OM977065	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
17	710678	OM977066	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
18	710802	OM977067	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
19	710686	OM977068	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
20	710734	OM977069	<i>R. arrhizus</i>	Rhino-orbital mucormycosis
21	710732	OM977070	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
22	710804	OM977071	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
23	710815	OM977072	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
24	710805	OM977073	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
25	710871	OM977074	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
26	710760	OM977075	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
27	710869	OM977076	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
28	710870	OM977077	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
29	710873	OM977078	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
30	710806	OM977079	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
31	710917	OM977080	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
32	710807	OM977081	<i>R. homothallicus</i>	Pulmonary mucormycosis
33	710905	OM977082	<i>R. homothallicus</i>	Pulmonary mucormycosis
34	710885	OM977083	<i>R. homothallicus</i>	Pulmonary mucormycosis
35	710808	OM977084	<i>R. homothallicus</i>	Pulmonary mucormycosis
36	710809	OM977085	<i>R. homothallicus</i>	Pulmonary mucormycosis
37	710816	OM977086	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
38	710715	OM977087	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
39	710766	OM977088	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
40	710762	OM977089	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
41	710890	OM977090	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
42	710881	OM977091	<i>R. homothallicus</i>	Rhino-orbital mucormycosis
43	710872	OM977092	<i>R. homothallicus</i>	Pulmonary mucormycosis

NCCPF National Culture Collection of Pathogenic Fungi, NCBI National Center for Biotechnology Information.

**Appendix Table 2.** Comparison of various clinical and demographic parameters between patients with CAM and Non-CAM due to *R. homothallicus*.

Parameter	<i>R. homothallicus</i> CAM	<i>R. homothallicus</i> Non-CAM	P value
	n-23(%)	n-18 (%)	
Age (years)	46.6 ± 12.7	44.8 ± 13.1	0.667
Gender (F)	12 (52.2)	6 (33.3)	0.343
DM	21 (91.3)	18 (100)	0.495
UDM	20 (95.2)	10 (55.6)	0.006
Recently diagnosed diabetes	8 (38.1)	1 (5.6%)	0.023
Hypertension	7 (30.4)	1 (5.6)	0.059
Steroid	6 (26.1)	0 (0)	0.027
Clinical features			
Duration of symptom at presentation (days)	4.09 ± 1.4	7.9 ± 8.5	0.040
Fever	0	4 (22.2)	0.030
Headache	2 (8.7)	2 (11.1)	1.000
Toothache	4 (17.4)	0	0.118
Eye swelling	20 (87)	7 (38.9)	0.002
Facial pain	5 (21.7)	6 (33.3)	0.489
Facial swelling	10 (43.5)	6 (33.3)	0.540
Proptosis	0	3 (16.7)	0.077
Visual disturbance	8 (34.8)	10 (50)	0.219
Oral ulcer	3 (13)	0	0.243
Nasal crust	3 (13)	2 (11.1)	1.000
Palatal eschar	2 (8.7)	3 (16.7)	0.638
Treatment/Outcome			
30 d mortality	1 (4.3)	3 (16.7)	0.303
Antifungal	22 (95.7)	16 (88.9)	0.573
LAMB	22 (95.7)	14 (77.8)	0.150

CAM: COVID-19 associated mucormycosis; DM- Diabetes mellitus; UDM – uncontrolled diabetes mellitus; LAMB- liposomal amphotericin B.



**Appendix Figure.** Amplified fragment length polymorphism analysis showing fingerprints of common species of genus *Rhizopus*. The range of fragment lengths was between 100–480 bp, as denoted on the scale bar (top).