

ESI replaced on 12th July 2016

ESI Fig. S1a–c should read Fig. 1. Please refer to Fig. 1 in the main article for comparison by sample type at the phylum level.

Supplemental Table 1. Fungal Genera detectable in House Dust by ITS sequencing, that were non-detectable by Culture

Fungal Genera (ITS)	House Dust Samples (N, %) with detectable levels*
Cryptococcus	10 (100%)
Leptosphaerulina	10 (100%)
Rhodotorula	9 (90%)
Coniozyma	8 (80%)
Malassezia**	8 (80%)
Phoma	8 (80%)
Peyronellaea	6 (60%)
Ophiocordyceps	4 (40%)
Coniosporium	3 (30%)
Didymella	3 (30%)
Phaeosphaeriopsis	3 (30%)
Puccinia	3 (30%)
Sclerotinia	3 (30%)
Candida**	2 (20%)
Cystofilobasidium	2 (20%)
Debaryomyces	2 (20%)
Exophiala	2 (20%)
Filobasidium	2 (20%)
Funneliformis	2 (20%)
Ganoderma	2 (20%)
Limonomyces	2 (20%)
Pseudeurotium	2 (20%)
Sporobolomyces	2 (20%)
Tilia***	2 (20%)
Trichosporon	2 (20%)
Armillaria	1 (10%)
Botrytis	1 (10%)
Candelina	1 (10%)
Coniothyrium	1 (10%)
Cyberlindnera	1 (10%)
Eupenicillium	1 (10%)
Gyoerffyyella	1 (10%)
Hannaella	1 (10%)
Lophozonia	1 (10%)
Melampsora	1 (10%)
Meyerozyma	1 (10%)
Phaeococcomyces	1 (10%)
Placynthiella	1 (10%)
Pseudorobillarda	1 (10%)
Saccharomyces**	1 (10%)

Stagonosporopsis	1 (10%)
Sydowia	1 (10%)
Taphrina	1 (10%)
Ampelomyces	1 (10%)
Articulospora	1 (10%)
Arundinaria	2 (20%)
Blumeria	1 (10%)
Bullera	1 (10%)
Clavulina	1 (10%)
Coprinellus	1 (10%)
Curreya	2 (20%)
Cyphellophora	1 (10%)
Dactylella	1 (10%)
Dioszegia	1 (10%)
Erysiphe	2 (20%)
Fusarium	1 (10%)
Guehomyces	1 (10%)
Hormonema	8 (80%)
Hyphodontia	1 (10%)
Hyphopichia	1 (10%)
Impatiens***	1 (10%)
Kwoniella	1 (10%)
Laetisaria	1 (10%)
Leptosphaeria	1 (10%)
Leuconeurospora	2 (20%)
Leucosporidiella	1 (10%)
Medicago***	1 (10%)
Nothofagus***	1 (10%)
Osmorhiza***	1 (10%)
Paraphoma	3 (30%)
Phaeosphaeria	1 (10%)
Phanerochaete	1 (10%)
Phyllosticta	1 (10%)
Podosphaera	1 (10%)
Rhodosporidium	2 (20%)
Trametes	1 (10%)
Trapeliopsis	1 (10%)
Trebouxia	1 (10%)
Tumularia	2 (20%)
Urochloa	1 (10%)
Uromyces	1 (10%)

*Level of detection was at or above 0.1% relative abundance (< 0.1% abundance considered non-detectable, as a way to mitigate spurious detection at very low read counts)

**Yeasts were cultured from house dust, but were not identified taxonomically at the level of genera

***Denotes plant taxonomic grouping