Multiple approaches detect the presence of fungi in human breast milk samples from healthy mothers.

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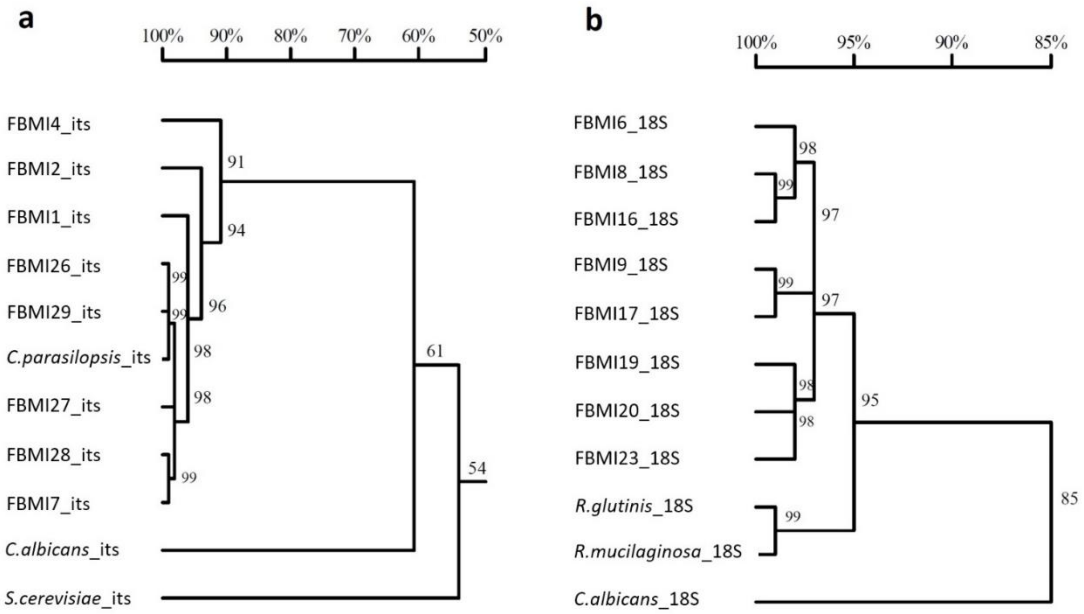
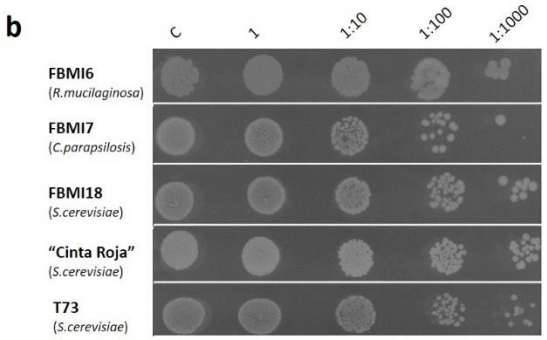
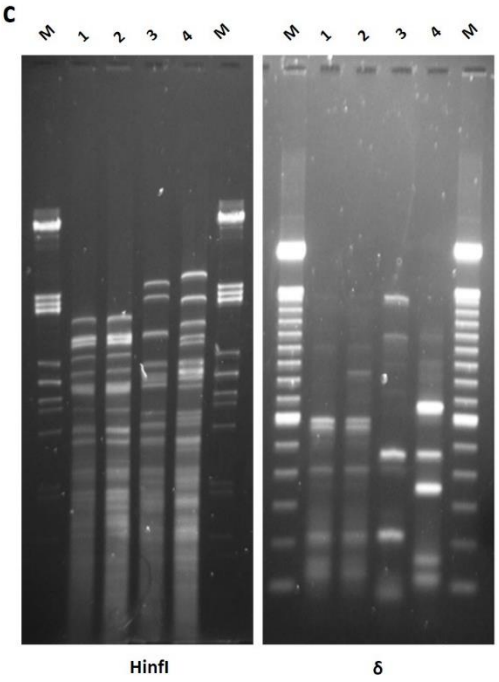


Supplementary Figure 1. Homology trees for *C.parapsilosis* and *R.mucilaginosa* isolates from breast milk. (a) Shows a homology tree for *Candida parapsilosis* isolates from breast milk samples (n=8) PCR-amplified with ITS1-5.8 primers and Sanger-sequenced. Three reference strains were included as controls (*C.parapsilosis , C.albicans* and *S.cerevisiae*). **(b)** Shows a homology tree for *Rhodotorula mucilaginosa* isolates from breast milk samples (n=8) PCR-amplified with 18S rRNA primers and Sanger-sequenced. Three reference strains were included as controls (*R.mucilaginosa, R.glutinis* and *C.albicans*). Multiple alignments and homology trees were performed with DNAMAN software.

a

Strains	28°C	37°C	42°C	No sugar	Lactose	Glucose	Sucrose
FBMI6 (R.mucilaginosa)	++	++	+	-	-	++	++
FBMI7 (C.parapsilosis)	++	++	++	-	-	++	++
FBMI18 (S.cerevisiae)	++	++	++	-	-	++	++
Cinta Roja	++	++	++	-	-	++	++
S.cerevisiae T73	++	-	-	-	-	++	++





Supplementary Figure 2. Phenotipic and genetic characterization of fungal isolates from human breastmilk. a) Isolates viability at different temperatures and utilization of different sugars. (-) indicates no growth, (+) indicates moderate growth, and (++) indicates high growth. **b) Isolates' resistance to oxidative stress.** The picture shows the differential growth of isolates after 1-hour exposure to 6mM H_20_2. The first column corresponds to the growth of isolates without H_20_2 exposure. The remaining columns of growth correspond to isolates exposed to H_20_2: 1(no dilution), and dilutions 1:10, 1:100 and 1:1000. **c) Hinf I mtDNA restriction patterns (HinfI) and δ-PCR amplification patterns (δ) of the DNA of yeast strains**. 1 (FBMI18 strain), 2 (Baker's yeast "Cinta roja"), 3 (Wine strain T73), 4 (*S.boulardii*, Ultralevura). The DNA of phage λ digested with Pst I (Roche Molecular Biochemicals) and a 100-bp DNA ladder marker (Gibco BRL, Gaithersburg, MD.) served as the size standard respectively (M).