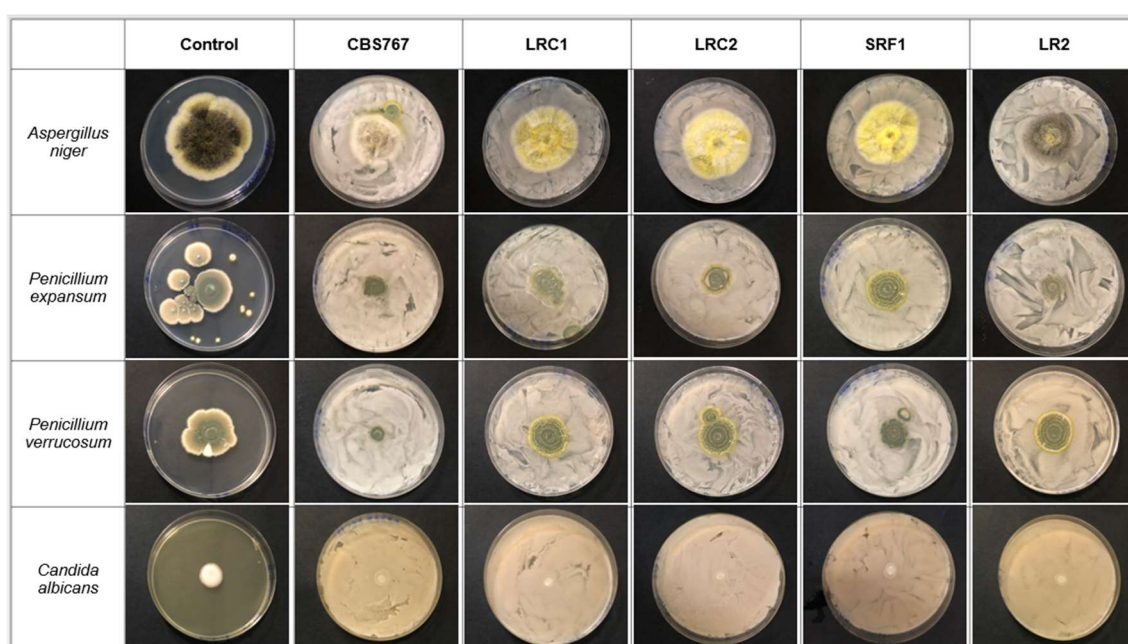
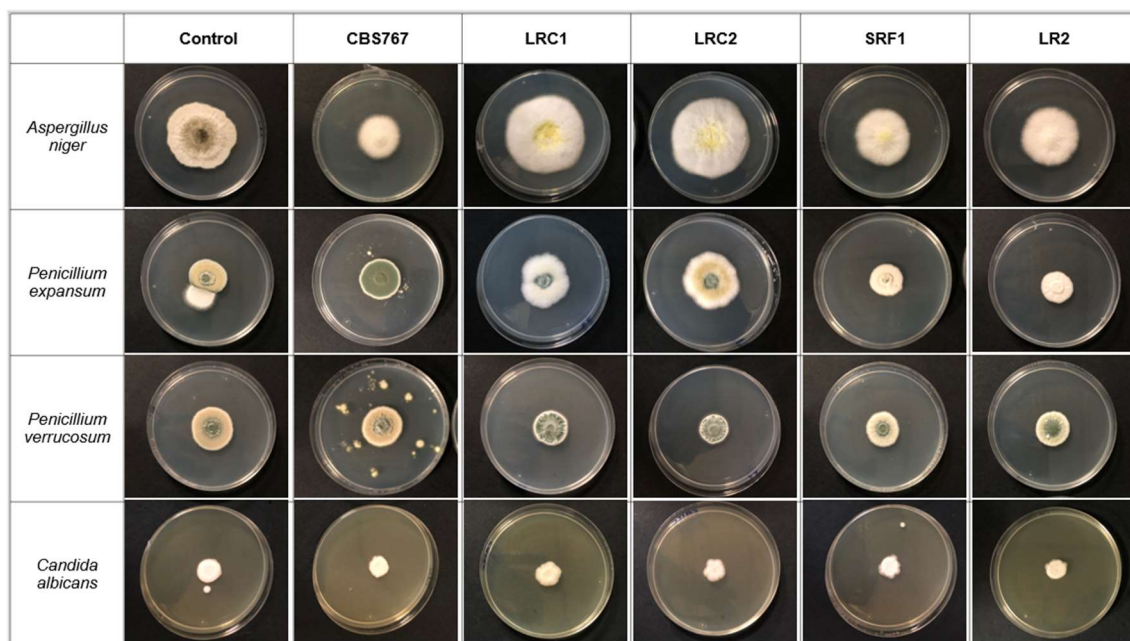




**Figure S1.** Representative photograph of the streak inhibition assay. The image on the left shows the growth of *Penicillium verrucosum* PV21 in YPDA medium without yeast and, on the right, streaks of the same fungus grown with yeast (LRC1).



**Figure S2.** A) Representative photographs of the test of radial inhibition of potentially pathogenic fungi by different strains of *Debaryomyces hansenii*. From left to right the different strains used and, from top to bottom, the potentially pathogenic fungi under study.



**Figure S3.** Representative photographs of the inhibition test for volatile compounds produced by *Debaryomyces hansenii* against potential pathogenic fungi. From left to right the different strains used and, from top to bottom, the potentially pathogenic fungi under study.

**Table S1.** MALDI Biotyper identification results.

Yeasts Strains	Score Value	Matched Pattern	NCBI Identifier
CBS767	2.20	<i>Debaryomyces hansenii</i>	4959
LRC1	2.06	<i>Debaryomyces hansenii</i>	4959
LRC2	2.03	<i>Debaryomyces hansenii</i>	4959
SRF1	2.03	<i>Debaryomyces hansenii</i>	4959
LR2	2.12	<i>Debaryomyces hansenii</i>	4959

Meaning of score values:

0.00-1.69 No confidence microorganism identification.

1.70-1.99 Low-confidence microorganism identification.

2.00-3.00 High-confidence microorganism identification.

Table S2. Statistical analysis of the inhibitory potential of *Debaryomyces hansenii* strains. Comparison of inhibitory potential of each strain against each other for every NaCl concentration studied (0, 0.5, and 1 M). The inhibitory effect of the different *D. hansenii* strains was determined by comparing maximum mycelial growth in control (without yeast) and cocultured plates.

Comparisons	<i>Aspergillus niger</i>			<i>Penicillium expansum</i>			<i>Penicillium verrucosum</i>			<i>Candida albicans</i>		
	0 M	0.5 M	1 M	0 M	0.5 M	1 M	0 M	0.5 M	1 M	0 M	0.5 M	1 M
CBS767 <i>vs.</i> LRC1	ns	*	ns	ns	ns	ns	ns	ns	ns	*	ns	ns
CBS767 <i>vs.</i> LRC2	***	ns	ns	ns	**	ns	**	ns	**	***	ns	ns
CBS767 <i>vs.</i> SRF1	*	ns	ns	ns	*	ns	ns	ns	ns	ns	ns	ns
CBS767 <i>vs.</i> LR2	*	*	ns	ns	ns	*	**	ns	*	*	ns	ns
LRC1 <i>vs.</i> LRC2	***	ns	ns	ns	ns	**	***	ns	**	***	ns	ns
LRC1 <i>vs.</i> SRF1	***	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
LRC1 <i>vs.</i> LR2	***	ns	ns	ns	ns	ns	**	ns	*	ns	ns	ns
LRC2 <i>vs.</i> SRF1	*	ns	ns	ns	ns	ns	ns	ns	**	***	ns	ns
LRC2 <i>vs.</i> LR2	*	ns	ns	ns	ns	**	ns	ns	ns	**	ns	ns
SRF1 <i>vs.</i> LR2	ns	ns	ns	ns	ns	**	ns	ns	ns	ns	ns	ns

ns: not significant, \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

Table S3. Statistical analysis of the effect of different NaCl concentrations on the inhibitory potential of each *Debaryomyces hansenii* strain. A comparison of inhibitory potential between NaCl concentrations studied (0, 0.5, and 1 M) for each *D. hansenii* strain. The inhibitory effect of the different *D. hansenii* strains was determined by comparing maximum mycelial growth in control (without yeast) and cocultured plates.

Strains	Conditions (NaCl)	<i>Aspergillus niger</i>	<i>Penicillium expansum</i>	<i>Penicillium verrucosum</i>	<i>Candida albicans</i>
CBS767	0 vs. 0.5 M	*	**	*	ns
	0 vs. 1 M	ns	ns	ns	ns
	0.5 M vs. 1 M	*	**	*	ns
LRC1	0 vs. 0.5 M	*	***	**	***
	0 vs. 1 M	*	ns	ns	***
	0.5 M vs. 1 M	ns	**	**	***
LRC2	0 vs. 0.5 M	ns	ns	ns	**
	0 vs. 1 M	ns	**	*	***
	0.5 M vs. 1 M	ns	**	*	*
SRF1	0 vs. 0.5 M	ns	**	ns	*
	0 vs. 1 M	ns	**	ns	ns
	0.5 M vs. 1 M	ns	***	ns	**
LR2	0 vs. 0.5 M	ns	*	ns	ns
	0 vs. 1 M	ns	ns	***	ns
	0.5 M vs. 1 M	ns	ns	**	ns

ns: not significant, \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table S4.** Statistical analysis of the radial growth assay of unwanted fungi cocultured with *Debaryomyces hansenii*. A comparison between the inhibitory activity of each strain against the control plates (without *D. hansenii*) and each other. The inhibitory activity of the different *D. hansenii* (not shown) was measured as described in the manuscript (IA). The control plates were considered to have an inhibitory activity of 0%.

Comparisons	<i>Aspergillus niger</i>	<i>Penicillium expansum</i>	<i>Penicillium verrucosum</i>	<i>Candida albicans</i>
Control <i>vs.</i> CBS767	***	***	***	***
Control <i>vs.</i> LRC1	*	***	ns	***
Control <i>vs.</i> LRC2	ns	***	ns	***
Control <i>vs.</i> SRF1	*	***	*	***
Control <i>vs.</i> LR2	**	***	ns	***
CBS767 <i>vs.</i> LRC1	*	ns	*	ns
CBS767 <i>vs.</i> LRC2	**	ns	**	ns
CBS767 <i>vs.</i> SRF1	*	*	*	ns
CBS767 <i>vs.</i> LR2	ns	ns	**	ns
LRC1 <i>vs.</i> LRC2	ns	ns	ns	ns
LRC1 <i>vs.</i> SRF1	ns	ns	ns	ns
LRC1 <i>vs.</i> LR2	*	ns	ns	ns
LRC2 <i>vs.</i> SRF1	ns	ns	ns	ns
LRC2 <i>vs.</i> LR2	*	ns	ns	ns
SRF1 <i>vs.</i> LR2	ns	*	ns	ns

Control: Growth of the unwanted fungi in the absence of any *D. hansenii* strain. ns: not significant, \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$