

Supporting Information

Table S1. CAT gene family of *Paracoccidioides* and related fungi.

Species	Strain	CATA	CATP	CATB
<i>P. brasiliensis</i>	Pb03 (PS2)	PABG_04351	PABG_01943	PABG_03611
	Pb18 (S1)	PADG_04740	PADG_00324	PADG_00225
	Pb300 (PS4)	ACO22_00116	ACO22_07355	ACO22_05319
	PbCNH (PS3)	GX48_01151	GX48_05139	GX48_03408
<i>P. lutzii</i>	Pb01	PAAG_04580	PAAG_01454	PAAG_01553
<i>H. capsulatum</i>	G186AR	HCBG_02841	HCBG_07136	HCBG_08399
<i>B. dermatitidis</i>	ATCC26199	BDFG_08520	BDFG_02965	BDFG_07613
<i>C. Immitis</i>	RS	CIMG_10158	CIMG_04336	-
<i>C. posadasii</i>	CBS 113859	CPSG_04574	CPSG_09625	-
<i>Ustilago reesii</i>	UAMH1704	UREG_03559	UREG_01586	-
<i>T. rubrum</i>	CBS118892	TERG_01252	TERG_02005,TERG_06053	-
<i>M. gypseum</i>	CBS118893	MGYG_00280	MGYG_05107,MGYG_05911	-
<i>A. fumigatus</i>	AF293	Afu6g03890	Afu2g18030	Afu3g02270
<i>A. flavus</i>	NRRL3357	AFLA_056170	AFLA_034380,AFLA_100250	AFLA_090690
<i>A. nidulans</i>	FGSC_A4	AN8637	AN5918	AN9339

Table S2. qPCR primers used in this study.

Gene	Sequence 5' → 3'
CATA (PABG_04351)	F: 5'TGTTTATGTGGGCCATGTCTG 3'
	R: 5'ATGTGTTGACGCCAAATCCC 3'
CATB (PABG_03611)	F: 5'TGTGGGTGATGTCTGGAAATGG 3'
	R: 5'CGGAATGTATGAACACCGAACC 3'
CATP (PABG_01943)	F: 5'AATTGGGACTGGGTCTTCAA 3'
	R: 5'AGGAACTTTGATGGATCACG 3'
AOX (PABG_01661)	F: 5'CTTGGGAGCAAGAGGTGCT 3'
	R: 5'AGGGCTGGGAAATATTCTTTG 3'
GSH (PABG_06731)	F: 5' AAGCACGGATGAATCATGGC 3'
	R: 5' TCCAGAGATTTGCGACGAAG 3'

TEF3 (PABG_05066)	F: 5'TTTCTTGCCCAAGCTCATGC 3'
	R: 5'CCTTGTTTGGTCTTCTCACGTG 3'
β-Tubuline (PABG_00486)	F: 5'TCCCTTTGGCGAACTCTTTC 3'
	R: 5'TTGTTTCCAGCACCAGACTG 3'

Figure S1: Validation via PCR of the presence and integration of the Transfer DNA (T-DNA) into the genome of *P. brasiliensis*. Genomic DNA from the PbWT60855, PbEV60855 and the knockdown strain *PbCATP*-aRNA were tested by PCR using specific primers for the tubulin gene (*TUB*) and for the hygromycin B resistance gene (*HPH*).

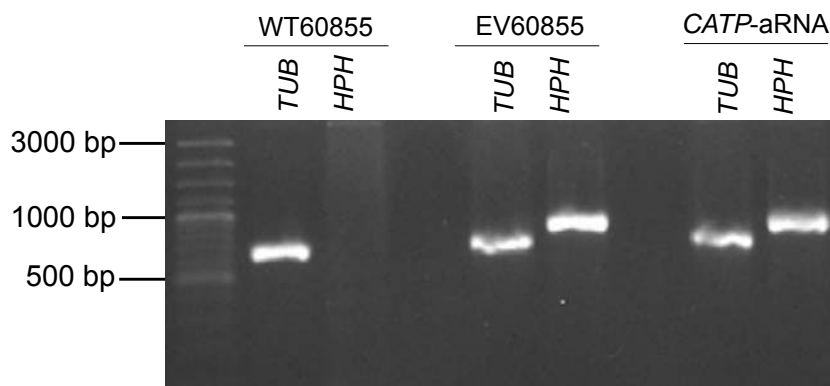


Figure S2: Gene expression levels for *CATP*, *AOX* and *GSH* in PbWT and *PbCATP*-aRNA yeast cells upon interaction with human PMNs (PMN-Pb). Gene expression levels were determined by RT-qPCR assay and normalized with the housekeeping gene β -tubulin. Results represent the mean of three individual experiments.

