

Table S18. Fungal homologs to Metazoa

Genomes	Total Genes	Metazoa homologs	NonHomologs	p value*
<i>Rhizopus oryzae</i>	13,936	4,632	9,304	-
<i>Coprinus cinereus</i>	13,544	3,288	10,256	5.00E-60
<i>Magnaporthe grisea</i>	12,841	3,276	9,565	1.00E-60
<i>Neurospora crassa</i>	9,845	2,758	7,087	1.00E-43
<i>Fusarium verticillioides</i>	14,199	3,485	10,714	2.40E-62
<i>Aspergillus nidulans</i>	10,665	3,273	7,392	0.000008

* The *p*-values for testing that there are significantly fewer metazoan homologous genes in each of the dikaryotic fungi compared to *R. oryzae* were computed using Fisher's exact tests.