

**Additional file 6: Table S4. Presence of a fungus-specific kinase family in selected fungal species <sup>a</sup>**

<b>Species</b>	<b>Ascomycete class</b>	<b>Fungal lifestyle</b>	<b>Number of hits (E value &lt;1e-20) (stringent)</b>	<b>Number of hits (E value &lt;1e-05) (relaxed)</b>
<i>Blumeria graminis</i> f.sp. <i>hordei</i> DH14 (taxid: 546991)	Leotiomycetes	Phytopathogen (powdery mildew)	62	70
<i>Blumeria graminis</i> f.sp. <i>tritici</i> (taxid 62690)	Leotiomycetes	Phytopathogen (powdery mildew)	19	25
<i>Coccidioides immitis</i> RS (taxid:246410)	Eurotiomycetes	Facultative human pathogen (coccidioidomycosis)	18	26
<i>Claviceps purpurea</i> 20.1 (taxid:1111077)	Sordariomycetes	Phytopathogen (ergot)	13	28
<i>Ajellomyces dermatitidis</i> ATCC 18188 (taxid: 653446)	Eurotiomycetes	Facultative human pathogen (blastomycosis)	11	17
<i>Paracoccidioides brasiliensis</i> Pb18 (taxid:502780)	Eurotiomycetes	Facultative human pathogen (paracoccidioidomycosis)	11	16

<i>Macrophomina phaseolina</i> MS6 (taxid:1126212)	Dothideomycetes	Phytopathogen (charcoal rot)	8	9
<i>Metarhizium acridum</i> CQMa 102 (taxid:655827)	Sordariomycetes	Entomopathogen (grasshopper)	6	10
<i>Ajellomyces capsulatus</i> H143 (taxid:544712)	Eurotiomycetes	Human pathogen (histoplasmosis)	5	10
<i>Metarhizium anisopliae</i> ARSEF 23 (taxid:655844)	Sordariomycetes	Entomopathogen	5	7
<i>Sclerotinia sclerotiorum</i> 1980 (taxid:665079)	Leotiomycetes	Phytopathogen	4	6
<i>Beauveria bassiana</i> ARSEF2860 (taxid:655819)	Sordariomycetes	Entomopathogen	4	5
<i>Glarea lozoyensis</i> ATCC 20868 (taxid:1116229)	Leotiomycetes		1	1
<i>Neurospora crassa</i> OR74A (taxid:367110)	Sordariomycetes	Saprophyte	1	1
<i>Fusarium oxysporum</i> f. sp. <i>cubense</i> (taxid:61366)	Sordariomycetes	Phytopathogen	0	2
<i>Aspergillus niger</i> ATCC 1015	Eurotiomycetes	Saprophyte	0	2

(taxid:380704)

<i>Magnaporthe oryzae</i> 70-15 (taxid: 242507)	Sordariomycetes	Phytopathogen (rice blast)	0	0
<i>Erysiphe pisi</i>	Leotiomycetes	Phytopathogen (powdery mildew)	1	0
<i>Golovinomyces orontii</i>	Leotiomycetes	Phytopathogen (powdery mildew)	0	1
<i>Saccharomyces cerevisiae</i> (taxid: 4932)	Saccharomycetes	Saprophyte	0	0
<i>Colletotrichum higginsianum</i> (taxid:80884)	Sordariomycetes	Phytopathogen (anthracnose)	0	0
<i>Botryotinia fuckeliana</i> T4 (taxid:999810)	Leotiomycetes	Phytopathogen (gray mold)	0	0
<i>Penicillium chrysogenum</i> NCPC10086 (taxid:1297591)	Eurotiomycetes	Saprophyte	0	0
<i>Marssonina brunnea</i> f. sp. 'multigermtub' S1 (taxid:1072389)	Leotiomycetes	Phytopathogen (Marssonina leaf spot)	0	0
<i>Stagonospora nodorum</i> (taxid:13684)	Dothideomycetes	Phytopathogen (blotch)	0	0

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<sup>a</sup> Based on BLASTP results using CCU82254 as a query sequence.