

**Table 6 List and distribution of secretion-associated proteins of the fungal genomes belonging to the phyla Basidiomycota, Chytridiomycota, and Microsporidia, the subphylum Mucoromycotina, and the phylum Peronosporomycota (oomycetes) archived in FSD**

Species	Size (Mb)	# of ORFs	Class SP	Class SP <sup>3</sup>	Class SL	Putative Secretome	Ref
<b>Fungi (Kingdom)<sup>a</sup></b>							
<b>Basidiomycota (Phylum)</b>							
<b>Agricomycotina (Subphylum)</b>							
<i>Coprinus cinereus</i>	36.3	13,410	1,189	1,032	119	2,340	N
<i>Cryptococcus neoformans</i> Serotype A	18.9	6,980	377	549	56	982	N
<i>Cryptococcus neoformans</i> Serotype B	19.0	6,870	331	529	44	904	N
<i>Cryptococcus neoformans</i> Serotype D B-3501A	18.5	6,431	342	523	39	904	[86]
<i>Cryptococcus neoformans</i> Serotype D JEC21	19.1	6,475	344	541	38	923	[86]
<i>Laccaria bicolor</i>	64.9	20,614	1,190	2,024	256	3,470	[87]
<i>Monilophthora perniciosa</i>	26.7	13,560	843	1,127	126	2,096	N
<i>Phanerochaete chrysosporium</i>	35.1	10,048	793	933	83	1,809	[88]
<i>Pleurotus ostreatus</i>	34.3	11,603	1,039	1,058	106	2,203	N
<i>Postia placenta</i>	90.9	17,173	1,057	1,808	202	3,067	[51]
<i>Schizophyllum commune</i>	38.5	13,181	975	1,175	119	2,269	N
<b>Pucciniomycotina (Subphylum)</b>							
<i>Melampsora laricis-populina</i>	21.9	16,694	1305	1483	233	3,021	N
<i>Puccinia graminis</i>	88.7	20,567	1,931	2,020	230	4,181	N
<i>Sporobolomyces roseus</i>	21.2	5,536	187	592	43	822	N
<b>Ustilaginomycotina (Subphylum)</b>							
<i>Malassezia globosa</i>	9.0	4,286	211	378	37	626	[50]
<i>Ustilago maydis</i> 521	19.7	6,689	789	583	10	1382	[89]
<i>Ustilago maydis</i> FB1	19.3	6,950	481	717	34	1232	[89]
<i>Ustilago maydis</i> MIPS	19.7	6,787	574	687	34	1295	N
<b>Chytridiomycota (Phylum)</b>							
<i>Batrachochytrium dendrobatidis</i> JAM81	24.3	8,732	806	750	108	1,664	N
<i>Batrachochytrium dendrobatidis</i> JEL423	23.9	8,818	650	785	91	1,526	N
<b>Mucoromycotina (Subphylum <i>incertae sedis</i>)</b>							
<i>Mucor circinelloides</i>	36.6	10,930	580	623	83	1286	N
<i>Phycomyces blakesleeianus</i>	55.9	14,792	642	1,085	221	1,948	N
<i>Rhizopus oryzae</i>	46.1	17,482	750	994	202	1,946	[90]
<b>Microsporidia (Phylum)</b>							
<i>Antonospora locustae</i> <sup>b</sup>	6.1	2,606	166	208	62	436	N
<i>Encephalitozoon cuniculi</i>	2.5	1,996	90	135	34	259	[91]
<b>Alveolata (Kingdom)</b>							
<b>Apicomplexa (Phylum)</b>							
<i>Plasmodium berghei</i>	18.0	12,175	844	554	569	1,967	N
<i>Plasmodium chabaudi</i>	16.9	15,007	1,027	643	661	2,331	N
<i>Plasmodium falciparum</i> 3D7	21.0	5,387	212	283	267	762	[92]
<i>Plasmodium knowlesi</i>	23.5	5,103	305	280	81	666	N
<b>Stramenopila (Kingdom)</b>							
<b>Peronosporomycota (Phylum)</b>							
<i>Hyaloperonospora parasitica</i>	83.6	14,789	868	1,235	132	2,235	N
<i>Phytophthora capsici</i>	107.8	17,414	1,485	1,179	136	2,800	N
<i>Phytophthora infestans</i> <sup>b</sup>	228.5	22,658	1,668	1,923	153	3,744	[93]
<i>Phytophthora ramorum</i>	66.7	15,743	1,670	1,372	91	3,133	[94]
<i>Phytophthora sojae</i>	86.0	19,027	2,040	1,662	96	3,798	[94]
<b>Total</b>	<b>1,449.1</b>	<b>386,513</b>	<b>27,761</b>	<b>31,470</b>	<b>4,796</b>	<b>64,027</b>	<b>-</b>

<sup>a</sup> Taxonomy based on [69]

<sup>b</sup> Insufficient exon/intron information

<sup>c</sup> Incomplete coverage of genome information