

Table S9. Secondary metabolite gene (SMG) clusters in genomes of Eurotiomycetes (Ascomycota) and Mucoromycotina. Data obtained from the JGI Mycocosm website (<https://mycocosm.jgi.doe.gov/mycocosm/home>), accessed on 3 June 2020. DMAT, dimethylallyl transferase; NRPS, nonribosomal peptide synthetase; PKS, polyketide synthase; TC, terpene cyclase.

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
EUROTIOMYCETES								
<i>Arthroderma benhamiae</i> CBS 112371	2	3	14	4	7	2	2	34
<i>Aspergillus acristatus</i> CBS 119.55 v1.0	3	2	12	14	31	3	0	65
<i>Aspergillus aculeatinus</i> CBS 121060 v1.0	6	2	19	20	28	3	3	81
<i>Aspergillus aculeatus</i> ATCC16872 v1.1	3	4	18	21	19	4	2	71
<i>Aspergillus affinis</i> CBS 129190 v1.0	13	8	13	22	36	3	6	101
<i>Aspergillus alabamensis</i> v1.0	7	4	14	16	21	3	3	68
<i>Aspergillus albertensis</i> v1.0	5	2	13	17	38	7	4	86
<i>Aspergillus allahabadii</i> v1.0	10	3	10	19	16	2	1	61
<i>Aspergillus alliaceus</i> CBS 536.65 v1.0	2	2	15	20	37	8	5	89
<i>Aspergillus ambiguus</i> v1.0	8	1	11	18	18	1	2	59
<i>Aspergillus amoeneus</i> CBS 111.32 v1.0	10	3	14	12	19	4	0	62
<i>Aspergillus amylovorus</i> CBS 600.67 v1.0	2	3	11	9	27	2	6	60
<i>Aspergillus arachidicola</i> v1.0	10	3	18	13	18	5	3	70
<i>Aspergillus arxii</i> CBS 52583 v1.0	1	1	4	10	11	2	0	29
<i>Aspergillus assulatus</i> CBS 27911 v1.0	2	1	4	7	9	2	4	29
<i>Aspergillus astellatus</i> v1.0	3	6	12	15	29	6	5	76
<i>Aspergillus aurantiobrunneus</i> CBS 465.65 v1.0	6	1	10	14	20	3	6	60
<i>Aspergillus aureofulgens</i> IBT 27100 v1.0	11	0	12	18	13	2	1	57
<i>Aspergillus aureolatus</i> CBS 190.65 v1.0	7	3	15	6	36	5	3	75
<i>Aspergillus aureoluteus</i> CBS 105.55 v1.0	5	2	6	8	9	3	3	36
<i>Aspergillus aureoterreus</i> v1.0	8	2	14	14	17	3	6	64
<i>Aspergillus avenaceus</i> IBT 18842 v1.0	1	4	11	18	18	4	6	62
<i>Aspergillus bertholletius</i> IBT 29228 v1.0	6	5	11	10	22	5	6	65
<i>Aspergillus biplanus</i> CBS 468.65 v1.0	5	1	11	19	34	6	7	83
<i>Aspergillus bisporus</i> CBS 707.71 v1.0	2	1	8	12	12	4	2	41
<i>Aspergillus bombycis</i> NRRL 26010	7	4	18	18	22	9	5	83
<i>Aspergillus botucatensis</i> CBS 114221 v1.0	10	2	14	8	16	4	1	55
<i>Aspergillus brasiliensis</i> v1.0	2	5	11	17	29	6	3	73
<i>Aspergillus brevijanensis</i> CBS 111.46 v1.0	10	3	20	23	39	3	4	102
<i>Aspergillus brevipes</i> CBS 118.53 v1.0	4	3	8	18	19	3	2	57
<i>Aspergillus brunneoviolaceus</i> CBS 621.78 v1.0	4	2	21	21	24	3	4	79
<i>Aspergillus caelatus</i> CBS 763.97 v1.0	8	4	16	20	22	8	5	83
<i>Aspergillus calidoustus</i>	7	1	9	13	28	2	6	66

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Aspergillus californicus</i> CBS 123895 v1.0	8	5	19	16	29	4	6	87
<i>Aspergillus campestris</i> IBT 28561 v1.0	5	5	11	11	12	2	2	48
<i>Aspergillus candidus</i> CBS 102.13 v1.0	4	4	11	6	16	3	1	45
<i>Aspergillus caninus</i> CBS 128032 v1.0	0	0	3	3	9	2	0	17
<i>Aspergillus capensis</i> CBS 138188 v1.0	6	3	20	18	13	3	5	68
<i>Aspergillus carbonarius</i> ITEM 5010 v3	2	5	11	20	18	4	4	64
<i>Aspergillus carlsbadensis</i> CBS 123894 v1.0	5	2	9	16	26	3	7	68
<i>Aspergillus cervinus</i> CBS 196.64 v1.0	3	1	16	10	24	5	4	63
<i>Aspergillus chevalieri</i> CBS 522.65 v1.0	2	1	3	10	13	2	0	31
<i>Aspergillus chrysellus</i> CBS 472.65 v1.0	7	11	14	26	38	5	4	105
<i>Aspergillus clavatonanicus</i> v1.0	4	4	11	7	15	3	3	47
<i>Aspergillus clavatus</i> NRRL 1 from AspGD	3	4	10	5	16	3	4	45
<i>Aspergillus cleistominutus</i> CBS 200.75 v1.0	6	2	15	14	27	2	3	69
<i>Aspergillus coreanus</i> CBS 117059 v1.0	8	1	11	10	14	2	1	47
<i>Aspergillus coremiiformis</i> CBS 553.77 v1.0	5	0	6	8	15	2	2	38
<i>Aspergillus costaricaensis</i> CBS 115574 v1.0	3	5	17	21	32	7	7	92
<i>Aspergillus costiformis</i> CBS 101749 v1.0	2	0	5	10	11	2	0	30
<i>Aspergillus creber</i> IBT 32277 v1.0	9	4	17	11	21	4	1	67
<i>Aspergillus cretensis</i> CBS 112802 v1.0	12	10	14	21	31	6	4	98
<i>Aspergillus cristatus</i> GZAAS20.1005	1	0	5	13	11	2	1	33
<i>Aspergillus crustosus</i> CBS 478.65 v1.0	7	0	7	11	18	3	3	49
<i>Aspergillus cumulatus</i> DTO 311-F5 v1.0	2	0	4	9	9	4	0	28
<i>Aspergillus dentatus</i> CBS 114.63 v1.0	6	2	10	16	24	5	1	64
<i>Aspergillus desertorum</i> CBS 653.73 v1.0	4	3	7	12	20	9	5	60
<i>Aspergillus dromiae</i> CBS 140633 v1.0	5	2	8	14	35	3	6	73
<i>Aspergillus duricaulis</i> CBS 481.65 v1.0	7	2	4	10	24	2	4	53
<i>Aspergillus egyptiacus</i> CBS 656.73 v1.0	4	0	16	8	19	4	4	55
<i>Aspergillus elegans</i> CBS 116.39 v1.0	8	8	17	26	27	3	5	94
<i>Aspergillus ellipticus</i> CBS 707.79 v1.0	2	2	15	14	28	7	4	72
<i>Aspergillus eucalypticola</i> CBS 122712 v1.0	2	6	11	19	26	4	6	74
<i>Aspergillus falconensis</i> CBS 271.91 v1.0	5	2	12	13	33	5	2	72
<i>Aspergillus ferenczii</i> CBS 121594 v1.0	2	2	7	9	12	2	3	37
<i>Aspergillus fijiensis</i> CBS 313.89 v1.0	5	3	21	25	26	3	4	87
<i>Aspergillus filifera</i> CBS 114510 v1.0	5	1	10	13	30	3	3	65
<i>Aspergillus flavipes</i> CBS 22552 v1.0	7	3	19	26	28	6	3	92
<i>Aspergillus flavus</i> NRRL3357	10	1	16	16	20	7	3	73
<i>Aspergillus floccosus</i> CBS 116.37 v1.0	10	5	19	23	26	3	3	89

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Aspergillus flocculosus</i> v1.0	8	5	18	24	28	2	4	89
<i>Aspergillus floridensis</i> DTO 198-A8 v1.0	4	1	16	21	23	4	3	72
<i>Aspergillus foveolata</i> CBS 279.81 v1.0	5	2	8	17	29	4	3	68
<i>Aspergillus frequens</i> CBS 586.65 v1.0	8	2	13	24	16	2	4	69
<i>Aspergillus fructiculosus</i> v1.0	5	2	10	14	38	2	2	73
<i>Aspergillus fumigatiaffinis</i> CBS 117186 v1.0	7	2	19	12	23	3	3	69
<i>Aspergillus fumigatus</i> A1163	3	2	8	6	11	2	0	32
<i>Aspergillus fumigatus</i> Af293 from AspGD	2	0	9	7	14	2	0	34
<i>Aspergillus fumisynnematus</i> IBT 28474 v1.0	8	2	13	10	20	4	2	59
<i>Aspergillus funiculosus</i> CBS 116.56 v1.0	5	0	5	5	15	2	3	35
<i>Aspergillus galapagensis</i> CBS 117522 v1.0	3	2	9	9	12	2	2	39
<i>Aspergillus germanicus</i> CBS 123887 v1.0	5	0	10	16	24	3	7	65
<i>Aspergillus giganteus</i> CBS 515.65 v1.0	3	3	12	7	18	3	2	48
<i>Aspergillus glaucus</i> v1.0	1	0	6	11	13	3	0	34
<i>Aspergillus granulosis</i> CBS 588.65 v1.0	8	0	8	13	22	2	5	58
<i>Aspergillus haitiensis</i> CBS 468.91 v1.0	3	0	6	10	29	3	8	59
<i>Aspergillus heteromorphus</i> CBS 117.55 v1.0	4	3	12	16	16	3	3	57
<i>Aspergillus heterothallicus</i> CBS 489.65 v1.0	4	0	9	16	15	4	4	52
<i>Aspergillus hiratsukae</i> CBS 294.93 v1.0	4	2	10	9	10	3	2	40
<i>Aspergillus homomorphus</i> CBS 101889 v1.0	4	3	16	22	24	5	4	78
<i>Aspergillus ibericus</i> CBS 121593 v1.0	2	6	7	18	15	6	3	57
<i>Aspergillus igneus</i> CBS 466.65 v1.0	5	4	13	10	23	2	1	58
<i>Aspergillus iizukae</i> CBS 541.69 v1.0	7	4	18	22	16	3	3	73
<i>Aspergillus implicatus</i> CBS 484.95 v1.0	3	4	13	18	49	5	8	100
<i>Aspergillus indicus</i> v2.0	7	2	10	14	29	2	2	66
<i>Aspergillus indologenus</i> CBS 114.80 v1.0	6	5	17	24	27	3	2	84
<i>Aspergillus insolitus</i> CBS 384.61 v1.0	0	1	9	7	9	2	1	29
<i>Aspergillus insuetus</i> CBS 107.25 v1.0	5	1	8	17	27	2	6	66
<i>Aspergillus japonicus</i> CBS 114.51 v1.0	4	1	21	22	19	3	1	71
<i>Aspergillus karnatakaensis</i> CBS 102800 v1.0	11	3	12	19	29	5	2	81
<i>Aspergillus kawachii</i> IFO 4308	2	6	15	17	33	5	6	84
<i>Aspergillus keveii</i> CBS 209.92 v1.0	8	0	11	17	25	3	8	72
<i>Aspergillus laciniosus</i> CBS 117721 v1.0	9	2	16	11	15	5	1	59
<i>Aspergillus lentulus</i> CBS 117885 v1.0	6	2	12	9	18	3	2	52
<i>Aspergillus leporis</i> CBS 151.66 v1.0	8	6	17	23	25	4	3	86
<i>Aspergillus longivesica</i> v1.0	3	4	12	8	10	5	2	44

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Aspergillus luchuensis</i> CBS 106.47 v1.0	2	6	16	22	30	5	6	87
<i>Aspergillus lucknowensis</i> CBS 449.75 v1.0	3	3	7	6	23	5	3	50
<i>Aspergillus luppii</i> CBS 653.74 v1.0	10	0	14	19	12	3	1	59
<i>Aspergillus microcysticus</i> CBS 120.58 v1.0	0	2	8	14	13	2	1	40
<i>Aspergillus minisclerotigenes</i> CBS 117635 v1.0	11	1	16	18	26	7	4	83
<i>Aspergillus miraensis</i> CBS 140625 v1.0	5	3	7	13	34	4	4	70
<i>Aspergillus multicolor</i> v1.0	4	3	10	17	28	5	2	69
<i>Aspergillus multiplicatus</i> CBS 646958 v1.0	2	1	4	8	6	3	3	27
<i>Aspergillus muricatus</i> v1.0	8	3	14	22	29	3	4	83
<i>Aspergillus nakazawae</i> v1.0	9	3	10	25	33	3	7	90
<i>Aspergillus navahoensis</i> v1.0	4	2	11	17	33	5	2	74
<i>Aspergillus neoauricomus</i> CBS112787 v1.0	6	5	10	23	33	3	4	84
<i>Aspergillus neoconicus</i> CBS 233.90 v1.0	1	0	7	8	8	3	0	27
<i>Aspergillus neoechinulatus</i> CBS120.55 v1.0	4	0	9	11	28	3	2	57
<i>Aspergillus neoflavipes</i> CBS 260.73 v1.0	9	3	19	25	18	2	3	79
<i>Aspergillus neoindicus</i> CBS 444.75 v1.0	8	2	17	19	20	3	2	71
<i>Aspergillus neoniger</i> CBS 115656 v1.0	3	4	13	16	29	6	9	80
<i>Aspergillus neowarcupii</i> IBT 29024 v1.0	3	1	10	13	21	2	3	53
<i>Aspergillus nidulans</i>	5	1	9	13	22	5	1	56
<i>Aspergillus niger</i> (lacticoffeatus) CBS 101883 v1.0	2	9	16	16	23	6	7	79
<i>Aspergillus niger</i> (phoenicis Corda) Thom ATCC 13157 v1.0	2	9	15	18	26	5	6	81
<i>Aspergillus niger</i> ATCC 1015 v4.0	2	9	16	16	27	4	6	80
<i>Aspergillus niger</i> CBS 513.88	2	6	14	15	29	5	6	77
<i>Aspergillus niger</i> NRRL3	2	9	16	16	29	4	6	82
<i>Aspergillus niger</i> van Tieghem ATCC 13496 v1.0	2	8	15	14	29	4	7	79
<i>Aspergillus nishimurae</i> IFM 54133 v1.0	2	1	2	9	6	3	3	26
<i>Aspergillus nomius</i> IBT 12657 v1.0	7	1	16	18	24	6	3	75
<i>Aspergillus nomius</i> NRRL 13137	5	3	19	19	26	5	4	81
<i>Aspergillus novofumigatus</i> IBT 16806 v1.0	4	3	16	5	24	2	2	56
<i>Aspergillus novoparasiticus</i> CBS 126849 v1.0	8	1	16	18	25	6	3	77
<i>Aspergillus nutans</i> CBS 121.56 v1.0	3	2	27	15	15	4	2	68
<i>Aspergillus ochraceoroseus</i> IBT 24754 v1.0	4	2	6	3	10	2	1	28
<i>Aspergillus ochraceoroseus</i> SRRC1432	4	1	6	4	9	3	1	28
<i>Aspergillus oerlinghausenensis</i> CBS 139183 v1.0	7	0	10	7	12	2	0	38
<i>Aspergillus olivicola</i> v1.0	5	2	7	12	29	4	3	62

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Aspergillus oryzae</i> RIB40	9	2	14	15	23	5	2	70
<i>Aspergillus ostianus</i> v1.0	8	4	12	17	34	4	4	83
<i>Aspergillus paleaceus</i> CBS 498.65 v1.0	2	0	7	7	8	3	1	28
<i>Aspergillus papuensis</i> CBS 841.96 v1.0	4	2	6	10	10	1	3	36
<i>Aspergillus parasiticus</i> CBS 117618 v1.0	11	0	22	17	26	6	5	87
<i>Aspergillus parvisclerotigenus</i> CBS 121.62 v1.0	8	4	14	14	20	5	3	68
<i>Aspergillus parvulus</i> CBS 136.61 v1.0	5	2	18	14	18	6	1	64
<i>Aspergillus penicilloides</i> CBS 540.65 v1.0	1	1	6	6	11	3	0	28
<i>Aspergillus pernambucoensis</i> CBS 137449 v1.0	5	0	7	10	6	2	2	32
<i>Aspergillus persii</i> CBS 112795 v1.0	6	10	16	24	43	4	3	106
<i>Aspergillus petrakii</i> CBS 105.57 v1.0	7	4	13	20	35	3	4	86
<i>Aspergillus piperis</i> CBS 112811 v1.0	2	6	14	20	30	5	8	85
<i>Aspergillus primulinus</i> CBS 253.94 v1.0	2	0	6	9	7	3	1	28
<i>Aspergillus pseudocaelatus</i> CBS 117616 v1.0	8	3	15	18	18	10	4	76
<i>Aspergillus pseudodeflectus</i> v1.0	5	1	9	15	26	4	6	66
<i>Aspergillus pseudofelis</i> IBT 34107 v1.0	7	3	19	11	30	2	3	75
<i>Aspergillus pseudonomius</i> CBS 119388 v1.0	6	1	17	19	23	6	3	75
<i>Aspergillus pseudotamarii</i> CBS 117625 v1.0	7	5	16	19	24	7	4	82
<i>Aspergillus pseudoterreus</i> DTO 47-E6 v1.0	8	5	11	16	23	2	2	67
<i>Aspergillus pseudoustus</i> CBS 123904 v1.0	6	0	15	14	26	3	4	68
<i>Aspergillus pseudoviridinutans</i> IBT 34175 v1.0	7	1	18	13	28	5	2	74
<i>Aspergillus pulvericola</i> CBS 137327 v1.0	10	6	13	25	34	3	4	95
<i>Aspergillus puulaauensis</i> IBT 32284 v1.0	9	3	12	15	22	3	1	65
<i>Aspergillus quadrilineatus</i> (floriformis) CBS 937.73 v1.0	3	2	9	13	34	8	2	71
<i>Aspergillus quadrilineatus</i> (gemmatus) CBS 853.96 v1.0	3	3	11	16	29	6	3	71
<i>Aspergillus rambellii</i> 100887 v1.0	3	2	6	4	11	2	1	29
<i>Aspergillus rambellii</i> SRRC1468	3	1	8	4	11	3	1	31
<i>Aspergillus recurvatus</i> v1.0	5	2	8	12	31	6	2	66
<i>Aspergillus restrictus</i> CBS 118.33 v1.0	0	1	4	9	6	2	0	22
<i>Aspergillus rhizopodus</i> v1.0	4	4	14	6	18	4	3	53
<i>Aspergillus robustus</i> CBS 428.77 v1.0	2	4	20	16	19	4	5	70
<i>Aspergillus roseoglobulosus</i> CBS112800 v1.0	8	6	16	27	34	4	8	103
<i>Aspergillus saccharolyticus</i> JOP 1030-1 v1.0	3	2	14	15	11	6	0	51
<i>Aspergillus sclerotiicarbonarius</i> CBS 121057 v1.0	3	6	14	22	25	6	3	79

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Aspergillus sclerotioniger</i> CBS115572 v1.0	3	5	9	21	21	5	5	69
<i>Aspergillus sclerotiorum</i> CBS 549.65 v1.0	6	11	14	24	38	4	4	101
<i>Aspergillus sepultus</i> CBS 257.85 v1.0	0	2	12	16	27	3	4	64
<i>Aspergillus sergii</i> CBS 130017 v1.0	9	0	16	22	26	7	3	83
<i>Aspergillus sesamicola</i> CBS 137324 v1.0	8	3	13	23	31	4	2	84
<i>Aspergillus shendaweeii</i> IBT 34197 v1.0	4	0	7	8	8	4	4	35
<i>Aspergillus siamensis</i> CBS 137452 v1.0	4	1	17	11	19	4	2	58
<i>Aspergillus silvaticus</i> CBS 128.55 v1.0	6	4	8	10	21	5	2	56
<i>Aspergillus similis</i> v1.0	5	3	8	15	22	6	2	61
<i>Aspergillus spathulatus</i> CBS 408.89 v1.0	3	1	2	10	6	2	3	27
<i>Aspergillus spectabilis</i> CBS 429.77A v1.0	6	1	13	20	36	4	3	83
<i>Aspergillus spinosus</i> CBS 483.65 v1.0	10	2	12	8	14	4	2	52
<i>Aspergillus stella-maris</i> CBS 113639 v1.0	5	1	10	13	36	3	5	73
<i>Aspergillus stercoraria</i> CBS 428.93 v1.0	4	1	7	11	26	4	4	57
<i>Aspergillus steynii</i> IBT 23096 v1.0	9	9	17	22	29	3	4	93
<i>Aspergillus subauricomus</i> CBS 638.78 v1.0	7	4	18	20	34	3	7	93
<i>Aspergillus sublatus</i> IBT 19356 v1.0	4	1	10	13	28	4	3	63
<i>Aspergillus subramanianii</i> CBS 138230 v1.0	6	10	14	22	48	4	5	109
<i>Aspergillus sulphureus</i> CBS 550.65 v1.0	8	9	17	23	36	4	6	103
<i>Aspergillus sydowii</i> CBS 593.65 v1.0	7	2	13	11	17	2	0	52
<i>Aspergillus taichungensis</i> IBT 19404 v1.0	5	3	10	9	11	4	1	43
<i>Aspergillus tamarii</i> CBS 117626 v1.0	11	3	19	18	22	6	2	81
<i>Aspergillus tanneri</i> DTO 303-18 v1.0	7	9	23	12	41	5	4	101
<i>Aspergillus templicola</i> CBS 138181 v1.0	9	2	17	21	20	5	2	76
<i>Aspergillus tennesseensis</i> IBT 32283 v1.0	7	2	10	13	22	4	1	59
<i>Aspergillus terreus</i> NIH 2624	5	1	15	17	24	2	2	66
<i>Aspergillus tetrazonus</i> CBS 591.65A v1.0	4	1	11	14	28	7	2	67
<i>Aspergillus thermomutatus</i> v1.0	4	4	9	10	19	3	3	52
<i>Aspergillus thesauricus</i> IBT 34227 v1.0	6	1	7	15	21	2	6	58
<i>Aspergillus transcarchaticus</i> CBS 423.68 v1.0	4	0	19	10	17	5	5	60
<i>Aspergillus transmontanensis</i> CBS 130015 v1.0	12	2	14	16	28	5	3	80
<i>Aspergillus trinidadensis</i> IBT 32571 v1.0	5	1	17	25	22	3	1	74
<i>Aspergillus triticus</i> CBS266.81 v1.0	5	2	11	7	23	2	2	52
<i>Aspergillus tsurutae</i> IBT 34206 v1.0	3	0	7	7	10	3	1	31
<i>Aspergillus tubingensis</i> v1.0	2	7	14	19	31	6	6	85

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Aspergillus turcosus</i> IBT 27921 v1.0	3	2	11	11	12	3	2	44
<i>Aspergillus udagawae</i> IFM 46973	5	3	13	10	25	3	3	62
<i>Aspergillus undulatus</i> CBS 261.88 v1.0	5	1	6	15	21	3	3	54
<i>Aspergillus unguis</i> CBS132.55 v1.0	1	2	9	15	13	2	1	43
<i>Aspergillus uvarum</i> CBS 121591 v1.0	4	3	17	21	21	3	2	71
<i>Aspergillus vadensis</i> CBS 113365 v1.0	2	5	13	22	27	5	4	78
<i>Aspergillus varians</i> CBS 505.65 v1.0	9	1	11	10	17	3	2	53
<i>Aspergillus venezuelensis</i> CBS 868.97 v1.0	7	1	13	12	37	4	3	77
<i>Aspergillus versicolor</i> v1.0	6	2	15	13	22	4	1	63
<i>Aspergillus violaceofuscus</i> CBS 115571 v1.0	6	3	19	20	17	4	3	72
<i>Aspergillus viridinutans</i> CBS 127.56 v1.0	6	2	10	9	21	3	5	56
<i>Aspergillus waksmanii</i> IBT 31900 v1.0	2	2	8	8	11	2	3	36
<i>Aspergillus welwitschiae</i> CBS139.54b v1.0	2	7	15	20	26	4	7	81
<i>Aspergillus wentii</i> v1.0	2	3	12	14	20	2	5	58
<i>Aspergillus westerdijkiae</i> CBS 112803 v1.0	10	5	16	22	30	5	6	94
<i>Aspergillus westlandensis</i> CBS 123905 v1.0	7	5	12	24	27	4	7	86
<i>Aspergillus zonatus</i> v1.0	1	0	6	8	12	3	2	32
<i>Blastomyces dermatitidis</i> SLH14081	2	0	4	4	1	2	0	13
<i>Bysochlamys spectabilis</i> No. 5	2	1	3	10	5	2	3	26
<i>Caliciopsis orientalis</i>	0	1	6	10	11	3	0	31
<i>Capronia coronata</i> CBS 617.96	0	0	3	3	2	3	0	11
<i>Capronia epimyces</i> CBS 606.96	0	0	2	7	6	2	0	17
<i>Capronia fungicola</i> CBS 614.96 v1.0	0	0	3	6	4	2	0	15
<i>Capronia semiimmersa</i> CBS27337	0	0	4	5	3	2	0	14
<i>Cladophialophora bantiana</i> CBS 173.52	1	0	2	8	2	3	0	16
<i>Cladophialophora carrionii</i> CBS 160.54	0	0	3	4	4	2	1	14
<i>Cladophialophora immunda</i> CBS83496	0	0	2	6	5	2	0	15
<i>Cladophialophora psammophila</i> CBS 110553	0	0	2	10	2	2	0	16
<i>Cladophialophora yegresii</i> CBS 114405	0	0	1	4	2	2	1	10
<i>Coccidioides immitis</i> RS	0	1	5	4	7	3	1	21
<i>Coccidioides posadasii</i> C735 delta SOWgp	0	1	6	3	5	3	1	19
<i>Coccodinium bartschii</i> CBS 121709 v1.0	1	2	4	9	5	2	1	24
<i>Cyphellophora europaea</i> CBS 101466	0	0	4	5	2	2	0	13
<i>Endocarpon pusillum</i> Z07020	2	2	3	4	16	3	2	32
<i>Eurotiomyces</i> sp. JF 03-3F Goopy v1.0	0	0	4	8	3	2	0	17
<i>Eurotiomyces</i> sp. JF 03-4F Slimy v1.0	0	0	4	8	3	2	0	17
<i>Eurotium rubrum</i> v1.0	2	0	4	8	12	2	1	29

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Exophiala alcalophila</i> ATCC 48519 v1.0	0	0	3	3	3	2	0	11
<i>Exophiala alcalophila</i> J33 v1.0	0	0	3	3	3	2	0	11
<i>Exophiala aquamarina</i> CBS 119918	0	0	4	8	5	5	1	23
<i>Exophiala dermatitidis</i> UT8656	0	0	4	3	2	3	0	12
<i>Exophiala mesophila</i> CBS40295	0	0	2	5	1	2	0	10
<i>Exophiala oligosperma</i> CBS72588	0	0	4	5	2	3	0	14
<i>Exophiala sideris</i> CBS121828	0	0	2	3	2	2	0	9
<i>Exophiala spinifera</i> CBS89968	0	0	3	8	3	2	0	16
<i>Exophiala xenobiotica</i> CBS118157	0	0	2	4	5	3	0	14
<i>Fonsecaea monophora</i> CBS 269.37	0	0	4	7	3	2	0	16
<i>Fonsecaea multimorphosa</i> CBS 102226	0	0	2	8	4	2	0	16
<i>Fonsecaea nubica</i> CBS 269.64	0	0	3	7	3	2	0	15
<i>Fonsecaea pedrosoi</i> CBS 271.37	0	0	3	8	3	2	0	16
<i>Gymnascella aurantiaca</i> v1.0	2	0	6	2	8	2	2	22
<i>Gymnascella citrina</i> v1.1	2	2	7	1	5	2	1	20
<i>Histoplasma capsulatum</i> NAM1	0	0	5	4	1	2	1	13
<i>Microsporium canis</i> CBS 113480	5	5	12	7	11	4	3	47
<i>Monascus purpureus</i> v1.0	0	2	7	5	4	5	0	23
<i>Monascus ruber</i> NRRL 1597 v1.0	0	3	7	5	10	3	0	28
<i>Neosartorya fischeri</i> NRRL 181	7	1	14	10	15	2	1	50
<i>Paecilomyces niveus</i> CO7 v1.0	1	7	7	13	19	2	1	50
<i>Paecilomyces variotii</i> CBS 101075 v1.0	0	3	5	8	6	2	3	27
<i>Paecilomyces variotii</i> CBS144490 HYG1 v1.0	0	3	7	7	6	2	3	28
<i>Paracoccidioides brasiliensis</i> Pb03	0	0	4	5	3	2	1	15
<i>Paracoccidioides brasiliensis</i> Pb18	0	0	3	6	3	2	1	15
<i>Penicillium antarcticum</i> IBT 31811	2	1	13	8	18	2	2	46
<i>Penicillium atramentosum</i> RS17 v1.0	1	3	10	14	13	2	3	46
<i>Penicillium bilaiae</i> ATCC 20851 v1.0	2	3	8	23	18	2	2	58
<i>Penicillium brevicompactum</i> 1011305 v2.0	2	1	13	16	22	2	4	60
<i>Penicillium brevicompactum</i> AgRF18 v1.0	2	1	15	15	24	2	3	62
<i>Penicillium canescens</i> ATCC 10419 v1.0	2	2	14	10	26	3	5	62
<i>Penicillium chrysogenum</i> Wisconsin 54-1255	1	2	7	15	18	3	3	49
<i>Penicillium chrysogenum</i> v1.0	0	2	9	14	18	3	4	50
<i>Penicillium coprophilum</i> IBT 31321	5	2	12	13	20	2	1	55
<i>Penicillium decumbens</i> IBT 11843	1	2	4	5	8	1	1	22
<i>Penicillium digitatum</i> PHI26	1	3	10	9	10	2	3	38
<i>Penicillium digitatum</i> Pd1	1	2	11	8	9	3	3	37

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Penicillium expansum</i> ATCC 24692 v1.0	4	6	15	10	25	4	5	69
<i>Penicillium expansum</i> d1	3	6	16	10	21	3	3	62
<i>Penicillium fellutanum</i> ATCC 48694 v1.0	1	1	7	9	12	2	1	33
<i>Penicillium flavigenum</i> IBT 14082	4	2	11	15	18	3	4	57
<i>Penicillium glabrum</i> DAOM 239074 v1.0	2	3	5	22	21	1	1	55
<i>Penicillium griseofulvum</i> PG3	3	3	10	16	21	4	1	58
<i>Penicillium italicum</i> PHI-1	0	3	7	7	19	3	4	43
<i>Penicillium janthinellum</i> ATCC 10455 v1.0	2	1	9	10	14	3	4	43
<i>Penicillium lanosocoeruleum</i> ATCC 48919 v1.0	3	4	12	13	21	2	6	61
<i>Penicillium nalgiovense</i> FM193	2	1	9	16	12	5	1	46
<i>Penicillium nordicum</i> DAOMC 185683	3	1	19	12	20	3	2	60
<i>Penicillium oxalicum</i> 114-2	3	4	11	13	5	2	2	40
<i>Penicillium polonicum</i> IBT 4502	4	6	17	17	19	3	2	68
<i>Penicillium raistrickii</i> ATCC 10490 v1.0	3	5	13	16	23	3	4	67
<i>Penicillium solitum</i> IBT 29525	2	3	12	13	21	4	4	59
<i>Penicillium solitum</i> IBT 30036 v1.0	2	4	11	12	20	2	5	56
<i>Penicillium</i> sp. NC0857 v1.0	2	0	9	10	14	4	1	40
<i>Penicillium steckii</i> IBT 24891	4	3	10	13	11	2	0	43
<i>Penicillium subrubescens</i> FBCC1632 / CBS132785	3	1	11	12	21	3	0	51
<i>Penicillium swiecickii</i> 182 6C1 v1.0	5	3	14	15	32	3	5	77
<i>Penicillium thymicola</i> DAOMC 180753 v1.0	2	3	18	17	23	2	5	70
<i>Penicillium vulpinum</i> IBT 29486	3	5	12	11	29	2	5	67
<i>Phaeomoniella chlamydospora</i> UCRPC4	0	0	4	6	8	2	0	20
<i>Phaeomoniellales</i> sp. NC0930 v1.0	0	0	10	11	5	3	0	29
<i>Phialophora attae</i> CBS 131958	0	0	1	4	3	2	0	10
<i>Talaromyces aculeatus</i> ATCC 10409 v1.0	0	2	11	17	26	5	1	62
<i>Talaromyces borbonicus</i> CBS 141340	2	3	8	8	16	2	2	41
<i>Talaromyces marneffeii</i> ATCC 18224	1	2	8	13	18	5	2	49
<i>Talaromyces proteolyticus</i> PMI_201 v1.0	4	2	8	13	40	3	1	71
<i>Talaromyces stipitatus</i> ATCC 10500	1	3	6	15	29	6	4	64
<i>Thermoascus aurantiacus</i> ATCC26904 v2.0	0	1	3	3	3	2	0	12
<i>Thermoascus aurantiacus</i> v1.0	0	1	3	3	3	2	0	12
<i>Thermomyces lanuginosus</i> SSBP	1	1	3	3	4	2	0	14
<i>Trichophyton rubrum</i> CBS 118892	1	3	13	2	8	2	2	31
<i>Trichophyton verrucosum</i> HKI 0517	3	3	12	5	7	2	2	34
<i>Uncinocarpus reesii</i> UAMH 1704	3	2	4	2	4	2	0	17
MUCOROMYCOTINA								

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Absidia caerulea</i> NRRL1315 v1.0	0	0	1	1	1	1	0	4
<i>Absidia padenii</i> NRRL 2977 v1.0	0	0	1	1	1	1	0	4
<i>Absidia repens</i> NRRL 1336 v1.0	0	0	1	1	1	1	0	4
<i>Amylomyces rouxii</i> NRRL 5866 v1.0	0	0	1	7	2	1	0	11
<i>Backusella circina</i> FSU 941 v1.0	0	0	1	5	2	1	0	9
<i>Benjamiella poitrasii</i> RSA 903 v1.0	0	0	1	5	2	1	0	9
<i>Blakeslea trispora</i> F921 v1.0	0	0	1	3	1	1	0	6
<i>Blakeslea trispora</i> F986 v1.0	0	0	1	3	1	1	0	6
<i>Blakeslea trispora</i> NRRL 2456 v1.0	0	0	1	3	1	1	0	6
<i>Chaetocladium brefeldii</i> NRRL 2343 v1.0	0	0	1	2	0	1	0	4
<i>Choanephora cucurbitarum</i> NRRL2744 (50) v1.0	0	0	1	5	1	1	0	8
<i>Circinella umbellata</i> NRRL1351 v1.0	0	0	0	4	1	1	0	6
<i>Cokeromyces recurvatus</i> NRRL 2243 v1.0	0	0	1	2	2	1	0	6
<i>Cunninghamella echinulata</i> NRRL 1382 v1.0	0	0	1	0	1	1	0	3
<i>Dichotomocladium elegans</i> RSA 919-v1.0	0	0	0	1	1	1	0	3
<i>Dichotomocladium robustum</i> RSA 2353+ v1.0	0	0	0	4	1	1	0	6
<i>Ellisomyces anomalus</i> CBS 243.57 v2.0	0	0	1	4	2	1	0	8
<i>Endogone</i> sp FLAS 59071	0	0	0	2	1	1	0	4
<i>Fennellomyces linderi</i> CBS 158.54 v1.0	0	0	0	5	1	1	0	7
<i>Fennellomyces</i> sp. T-0311 v1.0	0	0	0	5	1	1	0	7
<i>Gilbertella persicaria</i> var. <i>persicaria</i> CBS 190.32-T v1.0	0	0	1	3	1	1	0	6
<i>Gongronella butleri</i> v1.0	0	0	1	2	1	1	0	5
<i>Halteromyces radiatus</i> CBS 162.75 v1.0	0	0	1	1	1	1	0	4
<i>Helicostylum pulchrum</i> RSA 2064 v1.0	0	0	1	4	1	1	0	7
<i>Hesseltinella vesiculosa</i> NRRL3301 v2.0	0	0	1	2	1	1	0	5
<i>Jimgerdemannia flammicorona</i> AD002	0	0	0	2	0	1	0	3
<i>Jimgerdemannia flammicorona</i> GMNB39	0	0	0	1	1	1	0	3
<i>Jimgerdemannia lactiflua</i> OSC166217	0	0	0	3	0	1	0	4
<i>Lentamyces parricidus</i> NRRL2409 v1.0	0	0	0	6	1	1	0	8
<i>Lentamyces zychnae</i> NRRL 2806 v1.0	0	0	0	4	1	1	0	6
<i>Lichtheimia corymbifera</i> JMRC:FSU:9682	0	0	0	5	1	1	0	7
<i>Lichtheimia hyalospora</i> v1.0	0	0	0	6	1	1	0	8
<i>Mucor cordense</i> RSA 1222 v1.0	0	0	1	7	2	1	0	11
<i>Mucor endophyticus</i>	0	0	1	2	1	1	0	5
<i>Mucor fuscus</i>	0	0	1	0	1	1	0	3
<i>Mucor heterogamus</i> NRRL 1489 v1.0	0	0	2	3	1	1	0	7
<i>Mucor lanceolatus</i>	0	0	1	0	1	1	0	3

Genome	DMAT	HYBRID	NRPS	NRPS-Like	PKS	PKS-Like	TC	Total
<i>Mucor lusitanicus</i> (circinelloides) MU402 v1.0	0	0	1	4	2	1	0	8
<i>Mucor lusitanicus</i> CBS277.49 v2.0	0	0	1	4	2	1	0	8
<i>Mucor mucedo</i> NRRL 3635 v1.0	0	0	1	4	1	1	0	7
<i>Mucor racemosus</i>	0	0	1	2	2	1	0	6
<i>Mycotypha africana</i> NRRL 2978 v1.0	0	0	1	1	2	1	0	5
<i>Mycotypha indica</i> IMI 211999 v1.0	0	0	1	2	2	1	0	6
<i>Parasitella parasitica</i> v1.0	0	0	1	2	2	1	0	6
<i>Phascologyces articulatus</i> v1.0	0	0	0	7	1	1	0	9
<i>Phycomyces blakesleeanus</i> L51 v1.0	0	0	0	2	1	1	0	4
<i>Phycomyces blakesleeanus</i> NRRL1555 v2.0	0	0	1	2	1	1	0	5
<i>Phycomyces blakesleeanus</i> UBC1 v1.0	0	0	1	1	1	1	0	4
<i>Phycomyces blakesleeanus</i> UBC21 v2.0	0	0	1	3	1	1	0	6
<i>Phycomyces nitens</i> S607 v1.0	0	0	1	2	1	1	0	5
<i>Phycomyces nitens</i> S608 v1.0	0	0	1	2	1	1	0	5
<i>Phycomyces nitens</i> S609 v1.0	0	0	1	2	1	1	0	5
<i>Pilaira anomala</i> RSA1997 v1.0	0	0	1	3	1	1	0	6
<i>Pilobolus umbonatus</i> NRRL 6349 v1.0	0	0	1	0	1	1	0	3
<i>Radiomyces spectabilis</i> NRRL 2753 v1.0	0	0	0	3	1	1	0	5
<i>Rhizopus delemar</i> 99-880 from Broad	0	0	1	6	1	1	0	9
<i>Rhizopus microsporus</i> ATCC11559 v1.0	0	0	1	3	1	1	0	6
<i>Rhizopus microsporus</i> var. <i>chinensis</i> CCTCC M201021	0	0	2	6	1	2	0	11
<i>Rhizopus microsporus</i> var. <i>microsporus</i> ATCC52813 v1.0	0	0	1	3	1	1	0	6
<i>Rhizopus microsporus</i> var. <i>microsporus</i> ATCC52814 v1.0	0	0	1	3	1	1	0	6
<i>Saksenaea vasiformis</i> B4078	0	0	1	1	1	0	0	3
<i>Spinellus fusiger</i> NRRL 22323 v1.0	0	0	0	6	1	1	0	8
<i>Sporodiniella umbellata</i> MES 1446 v1.0	0	0	1	6	1	1	0	9
<i>Syncephalastrum racemosum</i> NRRL 2496 v1.0	0	0	0	7	1	1	0	9
<i>Thamnidium elegans</i> v1.0	0	0	1	4	1	1	0	7
<i>Umbelopsis isabellina</i> AD026 v1.0	0	0	1	5	1	2	0	9
<i>Umbelopsis ramanniana</i> AG # v1.0	0	0	1	4	0	1	0	6
<i>Umbelopsis</i> sp. PMI_123 v1.0	0	0	1	4	1	1	0	7
<i>Umbelopsis</i> sp. nov. AD052 v1.0	0	0	1	3	1	1	0	6
<i>Zychoaea mexicana</i> RSA 1403 v1.0	0	0	0	3	1	1	0	5