

Key Components of Different Plant Defense Pathways Are Dispensable for Powdery Mildew Resistance of the Arabidopsis *mlo2 mlo6 mlo12* Triple Mutant

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Table S2. Significantly over/underrepresented GO terms (biological process) among genes induced in *mlo2 mlo6 mlo12* vs Col-0 as analyzed by PANTHER. Defense-related GO terms are marked in green, GO terms related to biosynthesis of tryptophan-derived antimicrobials are marked in blue and GO terms associated with JA/ET signaling are marked in red.

GO biological process	<i>A. thaliana</i> – REFLIST (27352 genes)	among 145 induced genes	expected	over/under represented	fold enrichment	P-value
S-glycoside biosynthetic process (GO:0016144)	4	3	0.02	+	> 100	3.07E-03
indole glucosinolate biosynthetic process (GO:0009759)	4	3	0.02	+	> 100	3.07E-03
jasmonic acid and ethylene-dependent systemic resistance (GO:0009861)	14	4	0.07	+	55.03	2.25E-03
induced systemic resistance (GO:0009682)	28	6	0.15	+	41.28	2.23E-05
indole-containing compound biosynthetic process (GO:0042435)	34	6	0.18	+	33.99	6.97E-05
defense response to fungus, incompatible interaction (GO:0009817)	37	5	0.19	+	26.03	3.71E-03
indole-containing compound metabolic process (GO:0042430)	52	6	0.27	+	22.23	8.26E-04
toxin metabolic process (GO:0009404)	54	5	0.28	+	17.84	2.29E-02
defense response, incompatible interaction (GO:0009814)	132	12	0.69	+	17.51	1.66E-08
response to organonitrogen compound (GO:0010243)	133	11	0.69	+	15.93	3.41E-07
innate immune response (GO:0045087)	238	18	1.24	+	14.57	1.75E-12
sulfur compound biosynthetic process (GO:0044272)	81	6	0.42	+	14.27	1.04E-02
immune response (GO:0006955)	243	18	1.26	+	14.27	2.49E-12
response to chitin (GO:0010200)	108	8	0.56	+	14.27	2.64E-04
response to wounding (GO:0009611)	179	13	0.93	+	13.99	3.42E-08
response to jasmonic acid (GO:0009753)	173	12	0.9	+	13.36	3.56E-07
immune system process (GO:0002376)	274	19	1.42	+	13.36	1.24E-12
response to nitrogen compound (GO:1901698)	208	11	1.08	+	10.19	3.35E-05
response to salicylic acid (GO:0009751)	164	8	0.85	+	9.40	5.86E-03
response to ethylene (GO:0009723)	230	10	1.19	+	8.37	9.14E-04
sulfur compound metabolic process (GO:0006790)	282	12	1.46	+	8.20	7.76E-05
response to bacterium (GO:0009617)	353	15	1.83	+	8.18	1.43E-06
defense response to other organism (GO:0098542)	770	28	4	+	7.00	1.24E-12
response to organic cyclic compound (GO:0014070)	280	10	1.45	+	6.88	5.25E-03
defense response to bacterium (GO:0042742)	281	10	1.46	+	6.85	5.41E-03
defense response to fungus (GO:0050832)	425	15	2.21	+	6.80	1.69E-05
response to fungus (GO:0009620)	490	17	2.54	+	6.68	2.07E-06
response to external biotic stimulus (GO:0043207)	1002	32	5.2	+	6.15	2.87E-13
response to other organism (GO:0051707)	1002	32	5.2	+	6.15	2.87E-13

GO biological process	<i>A. thaliana</i> – REFLIST (27352 genes)	among 145 induced genes	expected	over/under represented	fold enrichment	P-value
response to biotic stimulus (GO:0009607)	1043	32	5.41	+	5.91	8.79E-13
defense response (GO:0006952)	1266	37	6.57	+	5.63	1.29E-14
response to external stimulus (GO:0009605)	1278	34	6.63	+	5.12	5.73E-12
response to acid chemical (GO:0001101)	877	22	4.55	+	4.83	2.50E-06
multi-organism process (GO:0051704)	1326	32	6.88	+	4.65	6.06E-10
response to oxygen-containing compound (GO:1901700)	1151	26	5.98	+	4.35	5.94E-07
response to endogenous stimulus (GO:0009719)	1292	27	6.71	+	4.03	1.39E-06
response to organic substance (GO:0010033)	1475	28	7.66	+	3.66	5.30E-06
response to stress (GO:0006950)	2706	51	14.05	+	3.63	1.50E-13
response to chemical (GO:0042221)	2075	38	10.77	+	3.53	1.03E-08
response to hormone (GO:0009725)	1212	21	6.29	+	3.34	2.91E-03
organonitrogen compound metabolic process (GO:1901564)	1398	21	7.26	+	2.89	2.59E-02
response to stimulus (GO:0050896)	4684	67	24.32	+	2.76	2.81E-13
Unclassified (UNCLASSIFIED)	7701	41	39.98	+	1.03	0.00E+00