



Figure S1. Comparison of the intra-group differences in the expression levels of genes in the control and the H₂O₂-elicited sample.

Table S2. Statistics of the transcriptomic analysis**Table S2A. Gene mapping statistics**

	Control-1	Control-2	Control-3	H ₂ O ₂ -1	H ₂ O ₂ -2
Total reads	47,069,028 (100.00%)	54,373,304 (100.00%)	52,032,746 (100.00%)	50,900,752 (100.00%)	44,998,414 (100.00%)
Total mapped	44,554,976 (94.66%)	51,334,599 (94.41%)	48,978,449 (94.13%)	47,979,752 (94.26%)	42,798,219 (95.11%)
Multiple mapped	42,690,974 (90.70%)	49,096,450 (90.30%)	46,06,961 (89.96%)	45,968,784 (90.31%)	40,947,436 (91.00%)
Uniquely mapped	1,864,002 (3.96%)	2,238,149 (4.12%)	2,171,488 (4.17%)	2,010,968 (3.95%)	1,850,783 (4.11%)
Reads map to '+'	942,404 (2.00%)	1,130,786 (2.08%)	1,096,968 (2.11%)	1,017,238 (2.00%)	932,389 (2.07%)
Reads map to '-'	921,598 (1.96%)	1,107,363 (2.04%)	1,074,520 (2.07%)	993,730 (1.95%)	918,394 (2.04%)
Non-splice reads	1,864,002 (3.96%)	2,238,149 (4.12%)	2,171,488 (4.17%)	2,010,968 (3.95%)	1,850,783 (4.11%)
Splice reads	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Reads mapped in proper pairs	1,694,950 (3.60%)	2,036,422 (3.75%)	1,984,254 (3.81%)	1,828,442 (3.59%)	1,674,742 (3.72%)

Total reads: The number of reads after quality inspection (clean data)

Total mapped: The number of reads that can be matched to the reference sequence

Multiple mapped: The number of reads with multiple matching positions on the reference sequence

Unique mapped: The number of reads with only one matching position on the reference sequence

Reads map to '+', Reads map to '-': The number of reads mapped to the sense (+) or the nonsense (-) strands on the reference sequence (only the Unique Mapped reads are investigated)

Non splice reads: The number of reads that match the sequence of a single exon

Splice reads: The number of reads that overlap two exons (also known as junction reads)

Reads mapped in proper pairs: The number of two end reads matching to reference sequence at the same time.

Table S2B. Gene assembly statistics

	No.	>=500bp	>=1000bp	N50	N90	Maximum length	Minimum length	Total length	Average length
Transcript	120,623	85,543	73,702	5,368	1,712	28,619	201	343,306,921	2,846
Unigene	34,512	9,384	5,470	3,310	271	28,619	201	31,328,723	908

Table S4. Potential biosynthetic genes involved in antrodin C production

Gene ID	Protein ID	Query cover (%)	E value	Percent identity (%)	Predicted Function	Matching gene name
TRINITY_DN12797_c0_g1	gi 598002407	97	3.00E-70	36.69	WD40	poxJ/paeD
TRINITY_DN19315_c0_g1	gi 758349692	96	2.00E-93	42.05	Branched chain amino acid aminotransferase	poxL/paeG
TRINITY_DN12945_c0_g4	gi 597935992	90	2.00E-49	23.21	Nonribosomal peptide synthetases (NRPS)	poxE/paeO
TRINITY_DN12960_c2_g1	gi 1023204788	93	2.00E-25	25.78	Cytochrome P450	poxC/paeM
TRINITY_DN12230_c0_g1	gi 1023270917	91	1.00E-15	22.16	Cytochrome P450	poxM/paeH
TRINITY_DN12021_c0_g1	gi 1023274070	31	2.00E-09	26.98	Cytochrome P450	poxD/paeN