

Supplementary Materials for

A dietary phytochemical alters caste-associated gene expression in honey bees

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The PDF file includes:

Table S1. Summary of read alignments using Bowtie 2.

Legends for tables S2 and S3

Table S4. Genes in the Hippo signaling pathway differentially expressed in larvae consuming diet containing *p*-coumaric acid.

Other Supplementary Material for this manuscript includes the following:

(available at www.advances.sciencemag.org/cgi/content/full/1/7/e1500795/DC1)

Table S2 (Microsoft Excel format). DEGs in the 0.5 mM *p*-coumaric acid treatment relative to control treatment.

Table S3 (Microsoft Excel format). DEG significantly enriched clusters with enrichment scores higher than 5.

Supplementary Materials:

Supplemental Table S1. Summary of read alignments using Bowtie 2.

Sample names	No. of reads	No. of unaligned reads (%)	No. of reads aligned 1 time (%)	No. of reads aligned >1 times (%)
0 mM-1	56874766	9752857 (17.15)	43225883 (76.00)	3896026 (6.85)
0 mM-2	52557453	9314644 (17.72)	39619512 (75.38)	3623297 (6.89)
0 mM-3	59985500	10270114 (17.12)	45577410 (75.98)	4137976 (6.90)
0.5 mM-1	55999063	10075755 (17.99)	42273881 (75.49)	3649427 (6.52)
0.5 mM-2	58448780	10760915 (18.41)	44162547 (75.56)	3525318 (6.03)
0.5 mM-3	59001499	10523220 (17.84)	44846851 (76.01)	3631428 (6.15)

Supplemental Table S2. DEGs in the 0.5 mM *p*-coumaric acid treatment relative to control treatment.

Supplemental Table S3. DEG significantly enriched clusters with enrichment scores higher than 5.

Supplemental Table S4. Genes in the Hippo signaling pathway differentially expressed in larvae consuming diet containing *p*-coumaric acid.

Gene ID	Gene name	Fold change	Adjusted p value
GB53008	Ds	2.66	2.21E-07
GB47470	Ft	2.28	7.50E-10
GB54092	Atrophin	2.31	8.09E-14
GB55164	Lgl	1.34	0.003193566
GB55971	App	-1.29	0.043760315
GB54210	Zyx	2.04	1.11E-11
GB54226	Dachs	1.39	0.013494448
GB50175	PP2A	-1.25	0.031685216
GB48571	Ex	2.11	7.62E-09
GB55908	Kibra	1.85	5.96E-09
GB45441	Par6	-1.56	7.76E-05
GB43138	Sdt	1.63	1.03E-05
GB42761	PatJ	1.32	0.030860699
GB44117	Ed	1.72	0.000486066
GB40091	dJub	2.25	5.69E-14
GB44888	Egr	1.35	0.007539412
GB45547	Wengen	-1.47	0.000412288
GB44311	F-actin	1.94	4.04E-09
GB53036	Warts	1.72	6.21E-07
GB48849	Mats	-2.04	1.34E-10
GB50985	Yki	1.29	0.024687453
GB44177	Mad	1.31	0.011190078
GB54841	Sd	1.39	0.006834858
GB48655	Hth	1.73	0.007961887
GB51048	vein	1.84	0.004645568
GB47654	Km	2.16	0.000645763