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Comparing Behavior and Clock Gene Expression between Caterpillars, Butterflies, and Moths

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Supplementary Material

Table 1:

Gene	Forward primer sequence	Reverse primer sequence
<i>Hv per</i>	CTCAACAAGCTGAACCGTCT	CATTCTTGCCGTCACCACTA
<i>Hv tim</i>	TCCTATTGTTGATGAACCATGTG	CGGAAATACGTGTAGGTAATGG
<i>Hv eIF4A</i>	GTGCTGGATGAAGCTGATGA	GCATGGTAGCAGACAGCAGA
<i>Dp per</i>	CGATTGTAAAGGAAGGCGGA	AACGTCTGGATTTCGATGGAC
<i>Dp tim</i>	GCACATCTCAGTAGCAACGA	GTCTCAGGAGCAGCACTAAC
<i>Dp pdf</i>	GAGACGACAAGCATGAGGAG	ATGGCGAGAACAGGTGGATA
<i>Dp EF1A</i>	TGTCGCTTTCGTACCCATTT	CCTTCAGCCTTACCCTCTTTAC

Table 2:

Treatment	Date sampled	Greenhouse temp. daytime avg. (°C)	Greenhouse temp. nighttime avg. (°C)
<i>Danaus</i> larvae	March 18-19	26.6	23.5
<i>Heliothis</i> larvae (on <i>N. attenuata</i> plant)	March 30-31	27.4	23.0
<i>Heliothis</i> larvae (on artificial diet)	April 6-7	26.5	22.9
<i>Danaus</i> adults	April 6-7	26.5	22.9
<i>Heliothis</i> adults	April 15-16	27.3	22.6

Table 3:

Supplementary Material

		M	SEM	Lower CI	Upper CI	p-value	A	SEM	Lower CI	Upper CI	p-value	Φ	SEM
Danaus larvae (plant-fed)	<i>per</i>	0.335	0.032	0.271	0.398	0.000	0.188	0.047	0.096	0.279	0.000	20.07	0.91
	<i>tim</i>	0.131	0.0053	0.121	0.142	0.000	0.023	0.0073	0.009	0.037	0.001	15.18	1.27
Heliothis larvae (plant-fed)	<i>per</i>	0.061	0.0062	0.049	0.073	0.000	0.021	0.0091	0.0036	0.039	0.018	19.12	1.52
	<i>tim</i>	0.241	0.033	0.176	0.306	0.000	0.116	0.048	0.072	0.261	0.001	18.29	1.04
Heliothis larvae (diet-fed)	<i>per</i>	0.099	0.010	0.079	0.119	0.000	0.022	0.015	-0.0071	0.050	0.141	20.87	2.49
	<i>tim</i>	0.364	0.035	0.296	0.432	0.00	0.114	0.049	0.0181	0.209	0.020	19.02	1.67
Danaus adults	<i>per</i>	0.262	0.019	0.225	0.298	0.000	0.196	0.025	0.146	0.245	0.000	17.64	0.53
	<i>tim</i>	0.243	0.013	0.218	0.267	0.000	0.147	0.017	0.114	0.181	0.000	15.76	0.48
Heliothis adults	<i>per</i>	0.105	0.015	0.077	0.134	0.000	0.090	0.022	0.047	0.133	0.000	17.74	0.81
	<i>tim</i>	0.333	0.063	0.210	0.457	0.000	0.206	0.094	0.021	0.391	0.029	16.28	1.56