

**Supplementary materials for: *Solanum nigrum* fruit extract
modulates immune system activity of mealworm beetle, *Tenebrio
molitor* L.**

Table S1. Primers used in the study

Name	Forward primer	Reverse primer	References
Cecropin	ATGGACAACCAATGCCACCC	GGTCTTCGATTCCGTTGCCT	Jacobs et al. 2017
Tenecin-3	CATCACGACGGACATCTGGG	TAAATGTCCGCCTGGTTGGC	Jacobs et al. 2017
Toll	TGCGTAGCAAACAGGTGGAT	TCGCGTAGCGGTAGTAGAGA	Jacobs et al. 2017
RPL13a	TCGTCGTGAGATGCGAACAA	CTGCTTCCCACGTTCTGTCT	Jacobs et al. 2017
References			
Jacobs, C.G., J.D. Gallagher, S.E. Evison, D.G. Heckel, A. Vilcinskas, and H. Vogel. 2017. Endogenous egg immune defenses in the yellow mealworm beetle (<i>Tenebrio molitor</i>). <i>Developmental & Comparative Immunology</i> 70:1-8.			

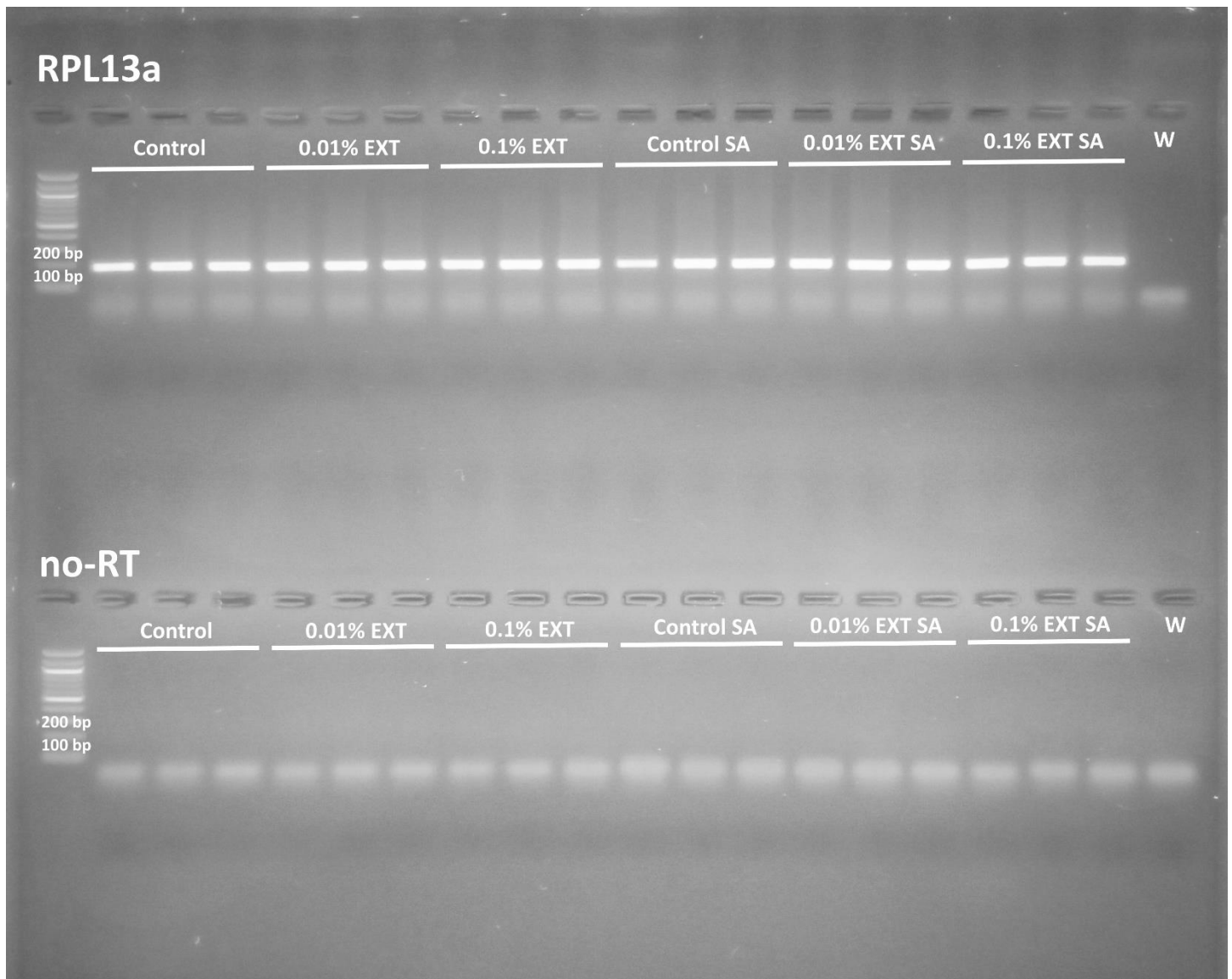


Figure S1. Positive and negative control for Reverse transcription quantitative PCR (RT-qPCR) analysis. The samples were checked using Reverse transcription PCR (RT PCR) method. Electrophoresis of RT PCR products was performed using a 2% TAE agarose gel stained with ethidium bromide. RPL13a - positive control of obtained samples; no-RT - negative control without using of reverse transcriptase during transcription of RNA to cDNA; Control - samples collected 24 hours after injection of physiological saline; 0.01% EXT - samples collected 24 hours after injection of physiological saline and *Solanum nigrum* fruit extract at concentration 0.01%; 0.1% EXT - samples collected 24 hours after injection of physiological saline and *Solanum nigrum* fruit extract at concentration 0.1%. Control SA - samples collected 24 hours after injection of physiological saline from additionally immunized beetles. 0.01% EXT SA- samples collected 24 hours after injection of physiological saline and *Solanum nigrum* fruit extract at concentration 0.01% from immunized beetles; 0.1% EXT SA- samples collected 24 hours after injection of physiological saline and *Solanum nigrum* fruit extract at concentration 0.1% from immunized beetles; W -water (no template control).