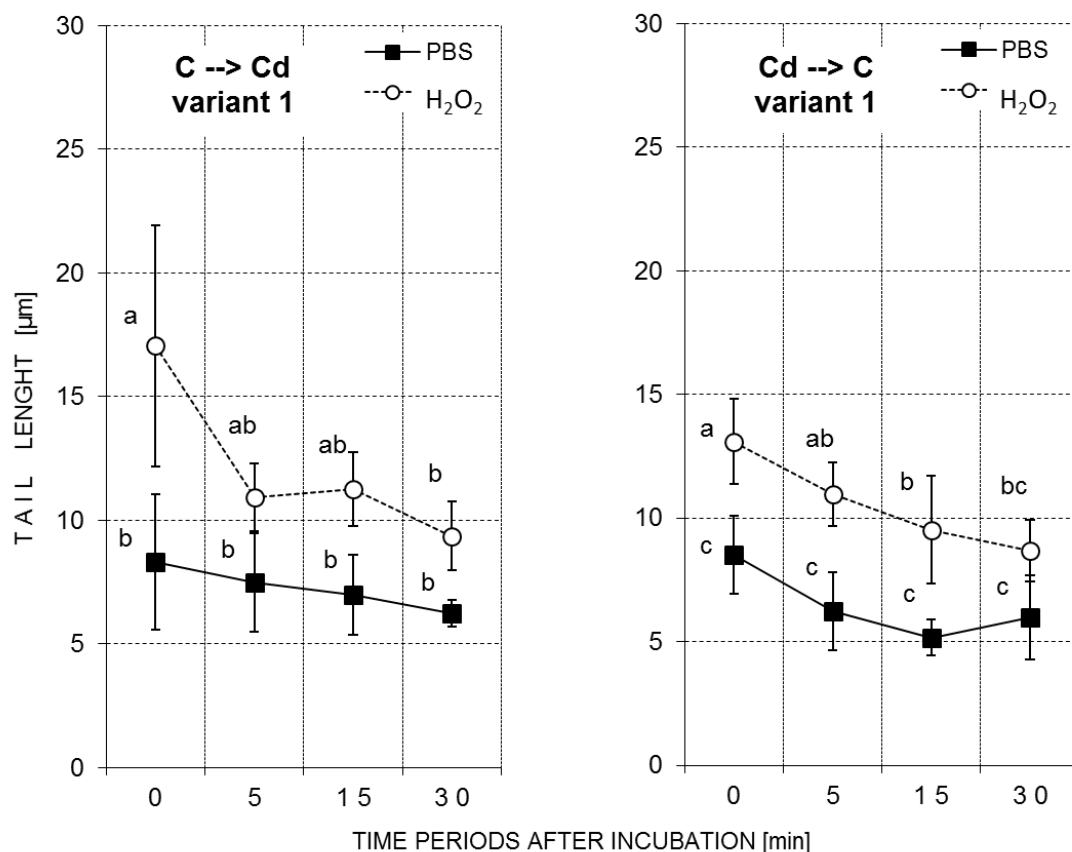


## S2 Fig. Tail length (a) and olive tail moment (b) in *S. exigua* hemocyte nuclei (Variant 1).

(a) Tail length ( $\mu\text{m}$ ; mean  $\pm$  SD) in the nuclei of the hemocytes of the 5<sup>th</sup> instar of *S. exigua* from the control and cadmium strains that were fed the exchanged diet (control to cadmium or cadmium to control) for one week (Variant 1). After isolation the cells were suspended in PBS and mixed with an  $\text{H}_2\text{O}_2$  solution (treated groups; final concentration 50  $\mu\text{M}$ ) or with PBS (reference groups) and incubated for 1 min.

Abbreviations:  $\circ$  or  $\blacksquare$  – mean of medians of fifty nuclei measured on each slide; (C->Cd), (Cd->C) – individuals from the control and cadmium strains that were fed the exchanged diet (control to cadmium or cadmium to control, respectively); 0, 5, 15 or 30 min – time period after the end of the incubation; the same letters indicate homogenous groups within a strain (ANOVA, Tukey test,  $p < 0.05$ ).



(b) Olive tail moment (in arbitrary units; mean  $\pm$  SD) in the nuclei of the hemocytes of the 5<sup>th</sup> instar of *S. exigua* from the control and cadmium strains that were fed the exchanged diet (control to cadmium or cadmium to control) for one week (Variant 1). After isolation the cells were suspended in PBS and mixed with an H<sub>2</sub>O<sub>2</sub> solution (treated groups; final concentration 50  $\mu$ M) or with PBS (reference groups) and incubated for 1 min.

Abbreviations:  $\circ$  or  $\blacksquare$  – mean of medians of fifty nuclei measured on each slide; (C->Cd), (Cd->C) – individuals from the control and cadmium strains that were fed the exchanged diet (control to cadmium or cadmium to control, respectively); 0, 5, 15 or 30 min – time period after the end of the incubation; the same letters indicate homogenous groups within a strain (ANOVA, Tukey test,  $p < 0.05$ ).

