

Dendrimer-coated carbon nanotubes deliver dsRNA and increase the efficacy of gene knockdown in the red flour beetle *Tribolium castaneum*

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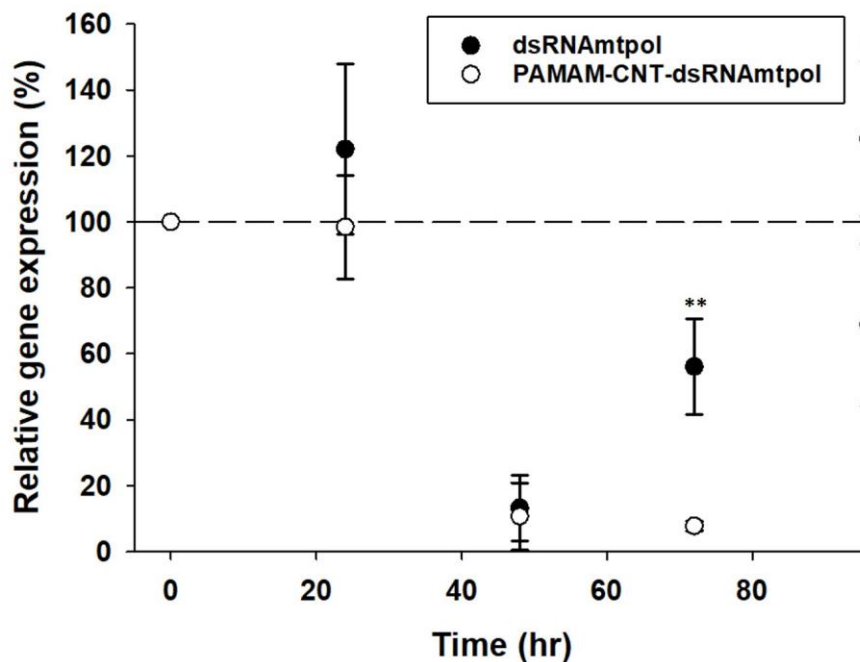


Figure S1. Relative normalised gene expression of targets after injection of PAMAM-CNTs, dsRNA or PAMAM-CNT-dsRNA complexes over 96 hr timecourse. *mtpol* expression was significantly decreased following injection of naked dsRNA_{mtpol} at 48h ($P < 0.001$) and 72h ($P < 0.05$) post-injection, recovering to control levels at 96h. *mtpol* expression was also significantly reduced in PAMAM-CNT-dsRNA_{mtpol} injected larvae at 48h ($P < 0.001$), 72h ($P < 0.001$) and 96h ($P < 0.05$). Expression was significantly lower in PAMAM-CNT-dsRNA_{mtpol} compared to dsRNA_{mtpol} alone at 72h ($P < 0.01$) and 96h ($P < 0.05$). Data are presented as means \pm SEM ($n = 4$ per treatment) as percentage. Asterixes represent significant difference between treatments determined by Student's t-test.