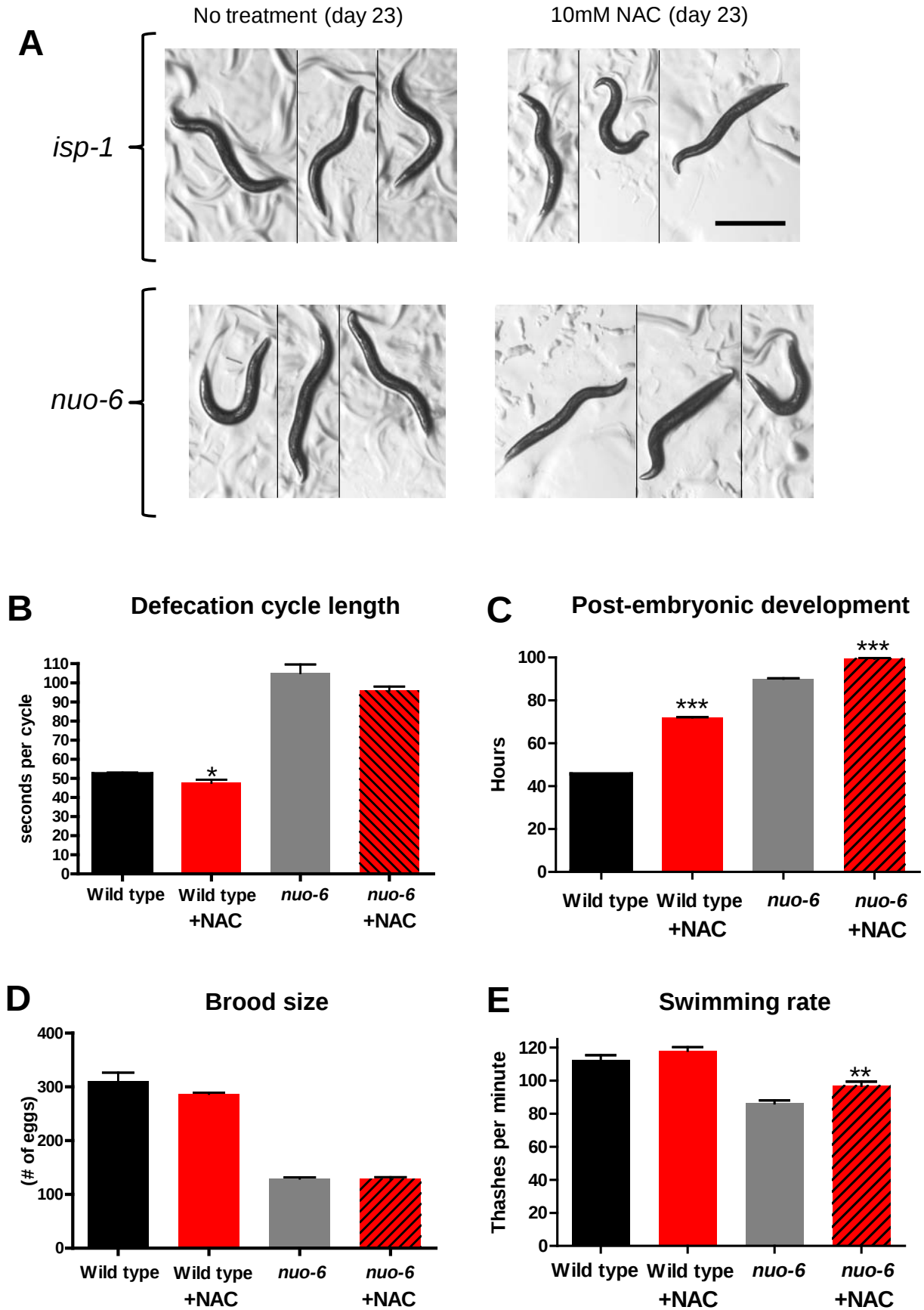




Legend of Supporting Figure S2: **A)** NAC (N-acetyl-cysteine) had no effect on the apparent health of *isp-1* or *nuo-6* mutants. Mutant animals were treated or not with 10mM NAC throughout their lives and all pictures in the panel were taken on day 23 of their lifespan, when less than 25% of untreated mutants, but more than 75% of NAC-treated mutants had already died. NAC treated *isp-1* and *nuo-6* mutants did not show any visible ill effects from the treatment. All worms are shown at the same magnification; scale bar is 0.5mm. Phenotypes possibly resulting from NAC treatment of *nuo-6(qm200)* mutants were also quantified. We chose to examine *nuo-6* mutants because their longevity was the most sensitive to NAC (completely suppressed at 10mM). Adult worms were allowed to lay eggs on NAC plates and phenotypes of the resulting F1 progeny were scored. **B)** NAC significantly decreased defecation cycle length of the wildtype ($p=0.0104$), while it has no significant effect on that of *nuo-6(qm200)* mutant ($n=15$). **C)** NAC significantly increased post-embryonic development length of both the wild type and *nuo-6(qm200)* mutants ($n=100$). **D)** NAC has no significant effect on brood size of both the wild type and *nuo-6(qm200)* mutants ($n=50$). **E)** NAC has no significant effect on the swimming rate (frequency of thrashing) of the wild type, but it significantly increased that of *nuo-6(qm200)* mutants ($p=0.0024$) ($n=15$).