

Supplementary Materials for

Nucleus-independent transgenerational small RNA inheritance in Caenorhabditis elegans

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Figs. S1 and S2

Differentially expressed small RNAs between N2 and MY16

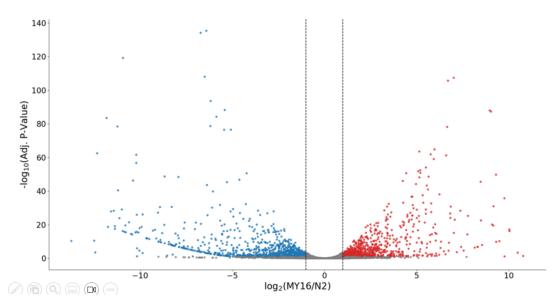


Fig. S1. Differentially expressed small RNAs between N2 and MY16

A volcano plot for small RNA data for all genes. Genes that are significantly upregulated in MY16 compared to N2 are colored red while genes that are significantly downregulated in MY16 compared to N2 are colored blue. Y axis represents statistical significance.

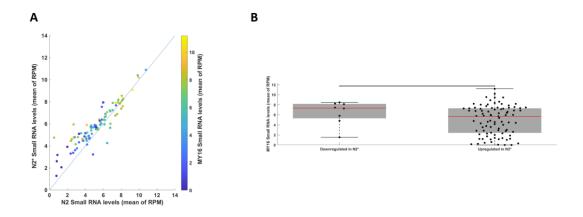


Fig. S2. no detection of small RNA inheritance from sperm's cytoplasm

- (A) Comparison of small RNA expression levels (log2 of reads per million (RPM)) of genes that are differentially expressed between N2 worms (X axis) and N2* worms (Y axis), with color code indicating the corresponding small RNA levels in MY16 worms
- (B) Comparison of genes that are downregulated in small RNA reads in N2* worms relative to N2 (left) and upregulated (right). Y axis indicates small RNA levels in MY16 worms. There is no significant difference between the two sets of genes.