

## Supplementary information

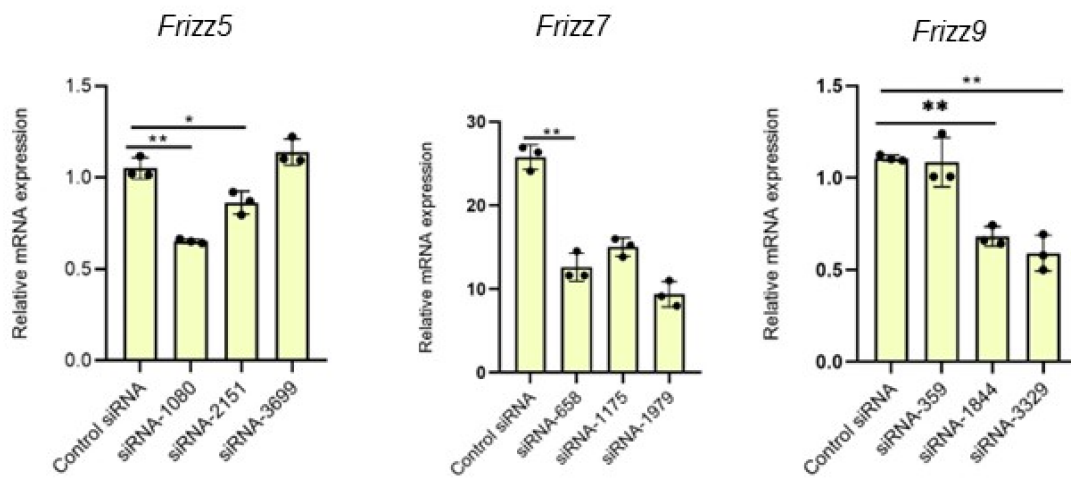
*Schistosoma* sex-biased microRNAs regulate ovarian development and egg production by targeting Wnt signaling pathway

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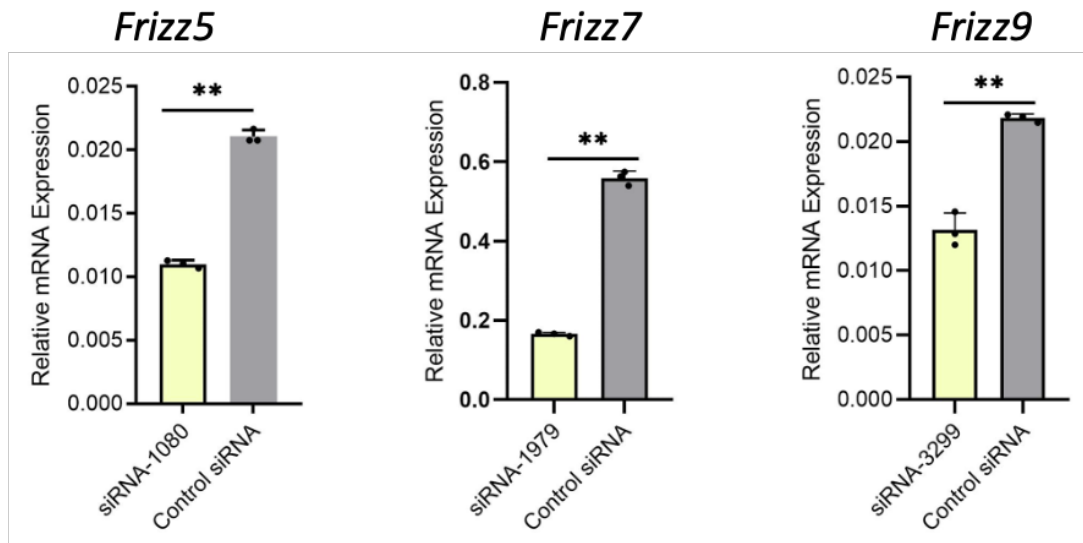
Supplementary Figures  
Supplementary Table 1-10

## Supplementary Figure 1



Supplementary Figure 1. Screening of best siRNA for inhibiting *Frizzled-5, 7 and 9*. Data are shown as the mean  $\pm$  standard error and represent triplicate experiments' results. \* denotes  $P \leq 0.05$  and \*\* denotes  $P \leq 0.001$ .

Supplementary Figure 2

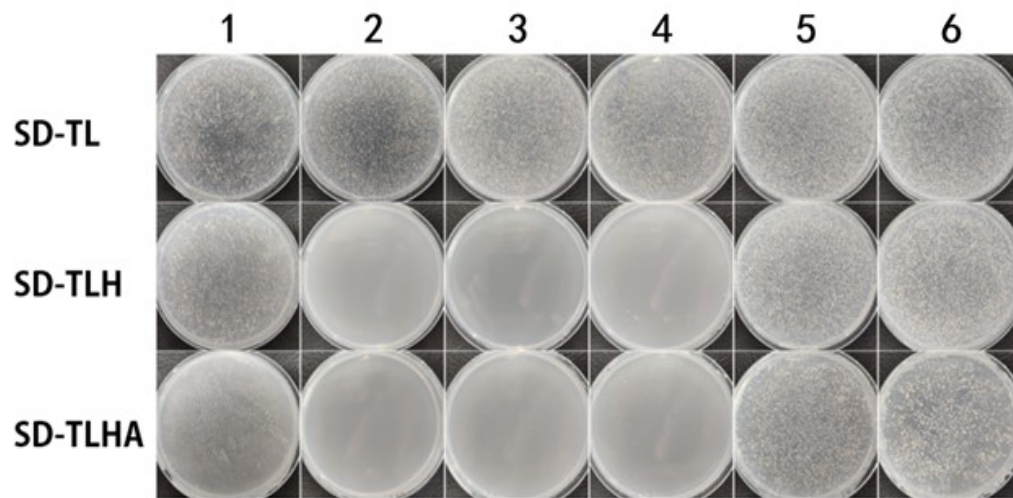


Supplementary Figure 2. RT-qPCR analysis of mRNA suppression induced by the best selected siRNA for *Frizzled-5/7/9*.

Data are shown as the mean  $\pm$  standard error and represent triplicate experiments' results.

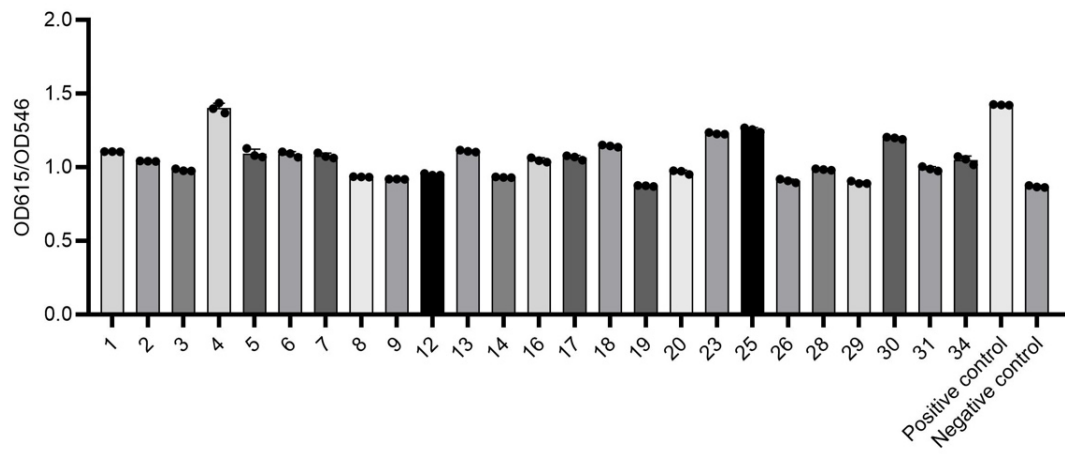
\*\* denotes  $P \leq 0.001$ .

**Supplementary Figure 3**



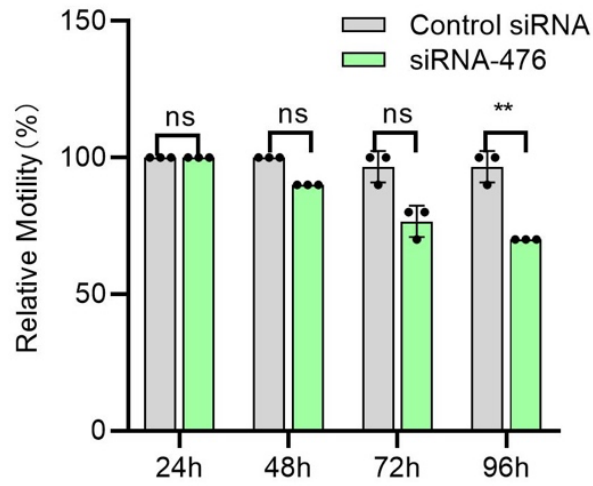
Supplementary Figure 3. Evaluation of self-activity of SjFrizzled-7 bait plasmid in Yeast cells.

### Supplementary Figure 4



Supplementary Figure 4. Validation of the interaction between bait and pray plasmid by  $\beta$ -galactosidase activity.

### Supplementary Figure 5



Supplementary Figure 5. *SjRho* inhibition induced reduced worm viability at day 4 of post treatment.

Data are shown as the mean  $\pm$  standard error and represent triplicate experiments' results.

\*  $P \leq 0.05$  and \*\*  $P \leq 0.001$ .