

## Supplementary Material

### **Magnetic Fe-Doped ZnO Nanocomposites: Concentration-Driven Tuning of Biocompatibility and Antimicrobial Potency**

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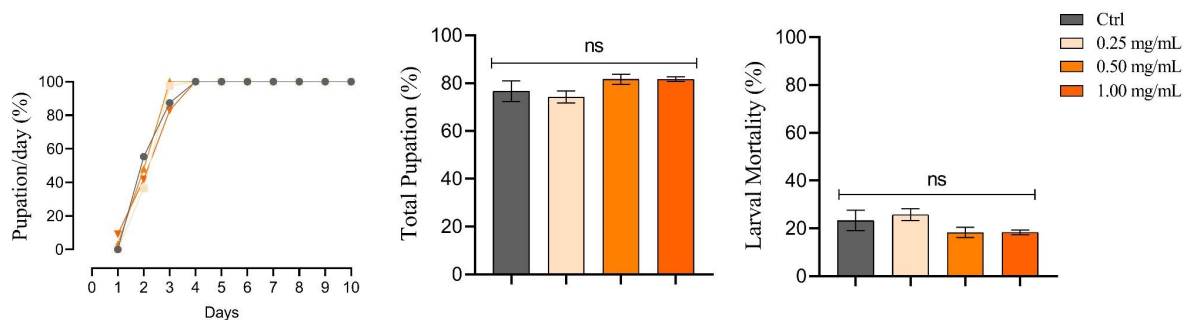
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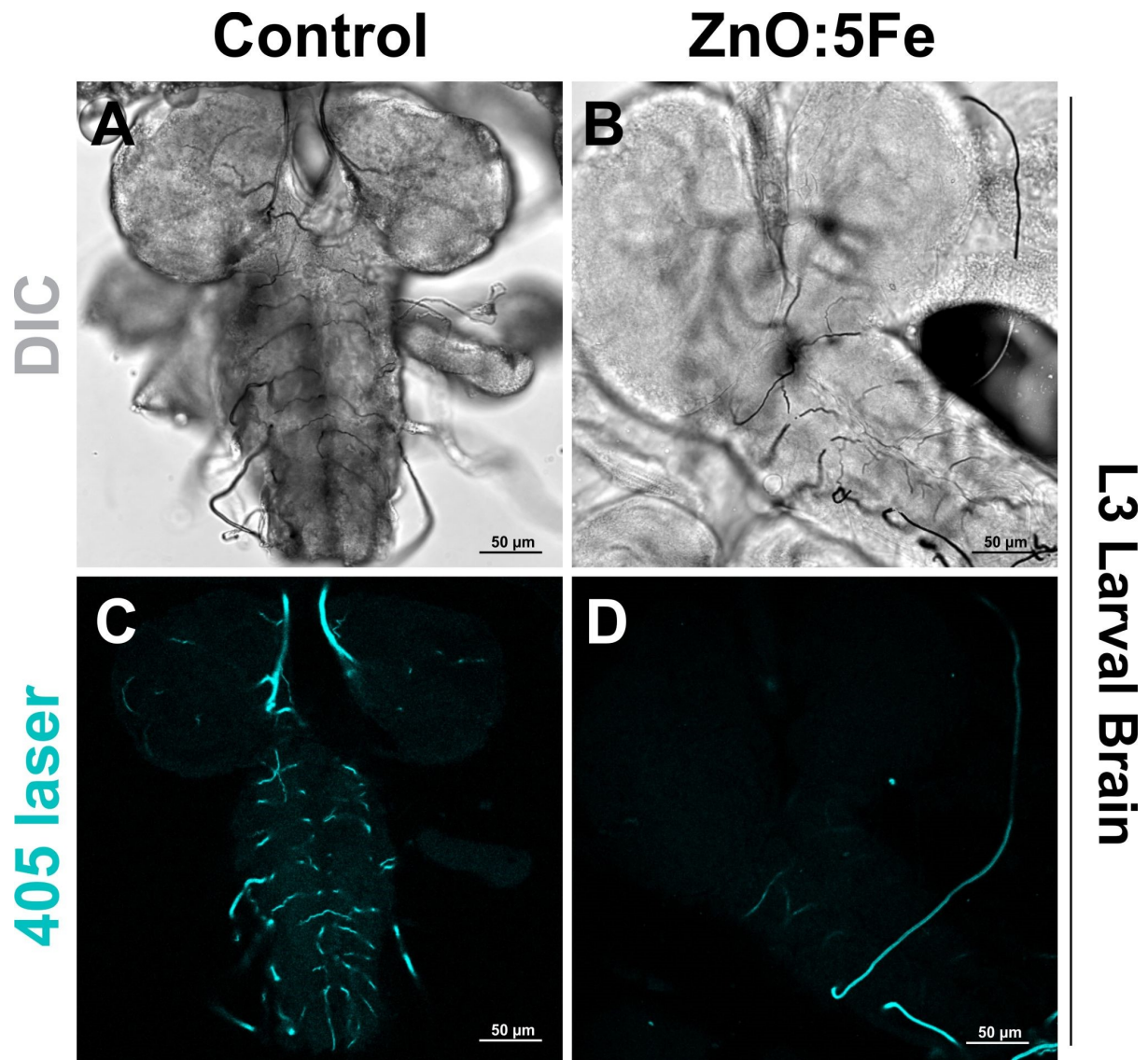
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**Supplementary 1.** Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) did not influence the oral exposure to nanocrystals during the post-embryonic development of fruit flies (*Drosophila melanogaster*). (A) Daily pupation formation. (B) Total pupation rate. (C) Larval motility.



**Supplementary 2. Confocal images of *Canton S* third instar larval brains exposed to standard and supplemented media with ZnO:5Fe. Any signal of luminescence was detected both in control L3 larval brains exposed to standard media (A and C) as larvae fed in media supplemented with ZnO:5Fe NCs under 405 nm laser excitation (B and D).**