**Supplementary Material file:**

Dissecting the serotonergic food signal stimulating sensory-mediated aversive behavior in *C. elegans*

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 **RESCUE/Overexpressor strains:**

*RWK108 ins-1(tm1888); fvEx47[ceh-2p::ins-1::gfp*] expressed *ins-1* in the NSM neurons of *ins-1* null animals.

*RWK109 N2; fvEx47[ceh-2p::ins-1XS::gfp*] expressed *ins-1* in the NSM neurons ofwild-type animals.

*RWK111 N2; fvEx49[ceh-2p::tph-1::gfpXS*] expressed *tph-1* in the NSM neurons of wild-typeanimals.

*RWK114 N2; fvEx51[srh-142p::ins-1XS*] expressed *ins-1* in the ADF sensory neurons of wild-type animals.

*RWK228 N2; fvEx108[srh-142p::tph-1XS::gfp]* expressed *tph-1* in the ADF sensory neurons of wild-type animals

 **Neuron selective/specific RNAi strains:**

*RWK13 N2;* *fvEx6[glr-3p::ser-1RNAi]* expressed a ser-1RNAi in the RIAinterneurons of wild-type animals

*RWK20 N2; fvEx109[ceh-2p::tph-1RNAi]* expressed atph-1 RNAiin the NSMneurons of wild-type animals

*RWK21 N2; fvEx8[srh-142p::tph-1RNAi]* expressed atph-1 RNAiin the ADFsensory neurons of wild-type animals

*RWK124 N2; fvEx61[ceh-2p::ins-1RNAi]* expressed anins-1 RNAiin the NSMneurons of wild-type animals

*RWK125 ser-1; fvEx61[ceh-2p::ins-1RNAi]* expressed anins-1 RNAiin the NSMneurons of *ser-1(ok345)* animals

*RWK126 ser-5; fvEx61[ceh-2p::ins-1RNAi]* expressed anins-1 RNAiin the NSMneurons of *ser-5(tm2654)* animals

*RWK127 mod-1; fvEx61[ceh-2p::ins-1RNAi]* expressed anins-1 RNAiin the NSMneurons of *mod-1(ok103)* animals

*RWK128 ser-1; fvEx62[ceh-2p::mod-5RNAi]* expressed amod-5 RNAiin the NSMneurons of *ser-1(ok345)* animals

*RWK128 N2; fvEx62[ceh-2p::mod-5RNAi]* expressed amod-5 RNAiin the NSMneurons of wild-type animals

*RWK130 ser-5; fvEx62[ceh-2p::mod-5RNAi]* expressed amod-5 RNAiin the NSMneurons of *ser-5(tm2654)* animals

*RWK131 mod-1; fvEx62[ceh-2p::mod-5RNAi]* expressed amod-5 RNAiin the NSMneurons of *mod-1(ok103)* animals

*RWK132 N2; fvEX61/fvEX7[ceh-2p::ins-1/tph-1RNAi]* expressed ains-1 and tph-1 RNAiin the NSMneurons of wild-type animals

*RWK134 N2; fvEx64[srh-142p::osm-9RNAi]* expressed an osm-9 RNAiin theADF sensory neurons of wild-type animals

*RWK137 N2; fvEx67[srh-142p::ins-1RNAi]* expressed an ins-1 RNAiin theADF sensory neurons of wild-type animals

*RWK138 ser-1; fvEx67[srh-142p::ins-1RNAi]* expressed an ins-1 RNAiin theADF sensory neurons of *ser-1(ok345)* animals

*RWK139 ser-5; fvEx67[srh-142p::ins-1RNAi]* expressed an ins-1 RNAiin theADF sensory neurons of *ser-5(tm2654)* animals

*RWK140 mod-1; fvEx67[srh-142p::ins-1RNAi]* expressed an ins-1 RNAiin theADF sensory neurons of *mod-1(ok103)* animals

*RWK141 N2; fvEx68[srh-142p::mod-5RNAi]* expressed a mod-5 RNAiin theADF sensory neurons of wild-type animals

*RWK142 ser-1; fvEx68[srh-142p::mod-5RNAi]* expressed a mod-5 RNAiin theADF sensory neurons of *ser-1(ok345)* animals

*RWK143 ser-5; fvEx68[srh-142p::mod-5RNAi]* expressed a mod-5 RNAiin theADF sensory neurons of *ser-5(tm2654)* animals

*RWK144 mod-1; fvEx68[srh-142p::mod-5RNAi]* expressed a mod-5 RNAiin theADF sensory neurons of *mod-1(ok103)* animals

*RWK145 N2; fvEx8/fvEx67[srh-142p::tph-1/ins-1RNAi]* expressed a tph-1 and ins-1 RNAiin theADF sensory neurons of wild-type animals

*RWK218 N2; fvEx68/fvEx6[srh-142p::mod-5/glr-3p::ser-1RNAi]* expressed a mod-5 and ser-1 RNAiin theADFs and RIAs of wild-type animals

*RWK219 N2; fvEx67/fvEx6[srh-142p::ins-1/glr-3p::ser-1RNAi]* expressed an ins-1 and ser-1 RNAiin theADFs and RIAs of wild-type animals

*RWK220 N; fvEx62/fvEx6[ceh-2p::mod-5/glr-3p::ser-1RNAi]* expressed a mod-5 and ser-1 RNAiin theNSMs and RIAs of wild-type animals

*RWK221 N2; fvEx61/fvEx6[ceh-2p::ins-1/glr-3p::ser-1RNAi]* expressed an ins-1 RNAi andser-1 RNAi in the NSMs and RIAs of wild-type animals

*RWK224 N2; fvEx107[egl-47p::mod-5RNAi]* expressed a mod-5 RNAi in the HSNs of wild-type animals

*RWK225 mod-1; fvEx107[egl-47p::mod-5RNAi]* expressed a mod-5 RNAi in the HSNs of *mod-1(ok103)* animals

*RWK226 tdc-1; fvEx68[srh-142p::mod-5RNAi]* expressed a mod-5 RNAi in the ADFs of *tdc-1(n3419)* animals

*RWK227 tbh-1; fvEx68[srh-142p::mod-5RNAi]* expressed a mod-5 RNAi in the ADFs of *tbh-1(n3247)* animals

*RWK228 N2; fvEx[srh-142p::mod-5RNAi/glr-3p::ser-1RNAi]* expressed a mod-5 and ser-1 RNAi in the ADFs and RIAs of wild-type animals

*RWK229 N2; fvEx[srh-142p::ins-1RNAi/glr-3p::ser-1RNAi]* expressed an ins-1 and ser-1 RNAi in the ADFs and RIAs of wild-type animals