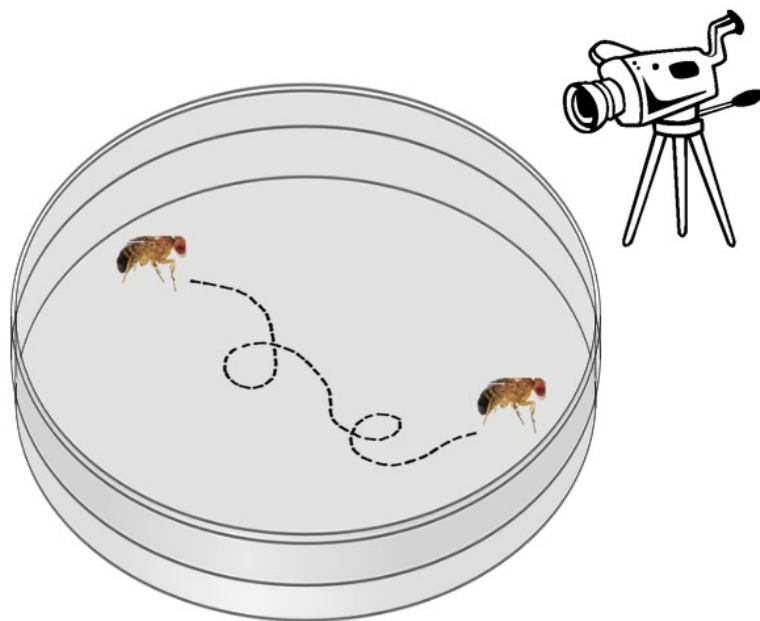
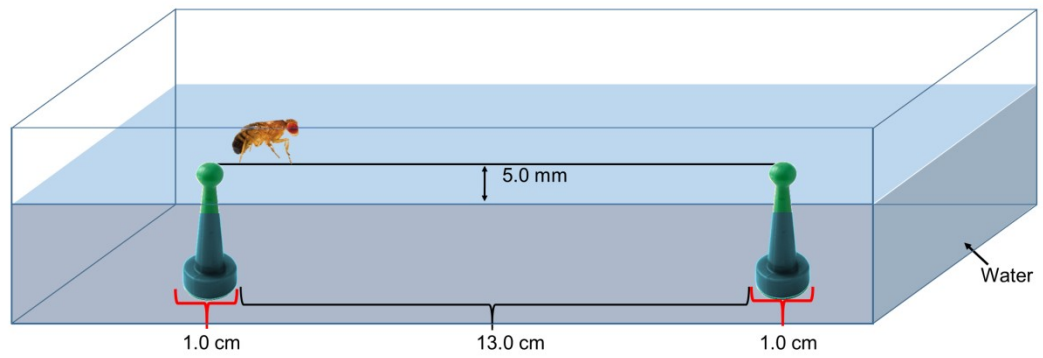


Supplementary material:



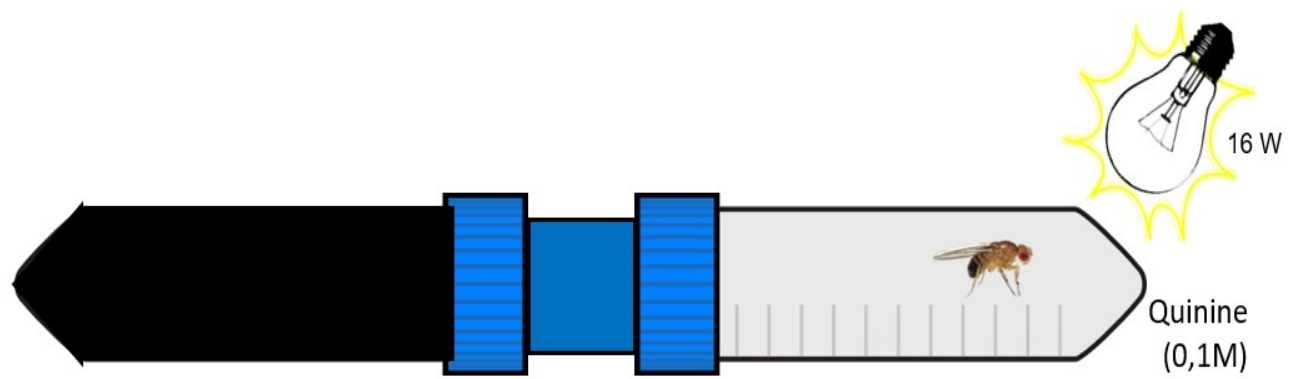
Diameter: 52.0 mm; height: 7.0 mm.

Fig. S. 1. Apparatus used for the open field test.



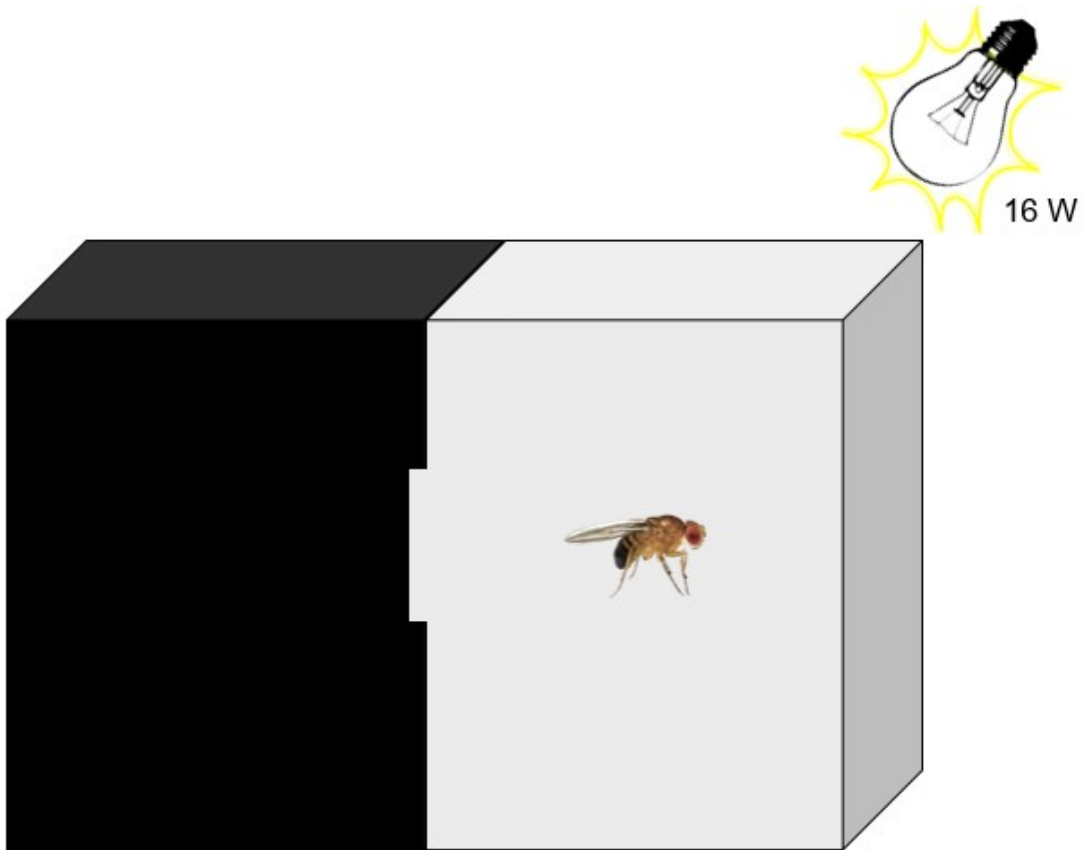
Length: 22.0 cm; width: 12.0 cm; height: 2.5 cm.

Fig. S. 2. Apparatus used for the evaluation of the equilibrist test.



Capacity: 12.0 mL; length: 10.5 cm; internal diameter: 1.5 cm, (in each compartment), connected by central platform with approximately 2.5 cm of length.

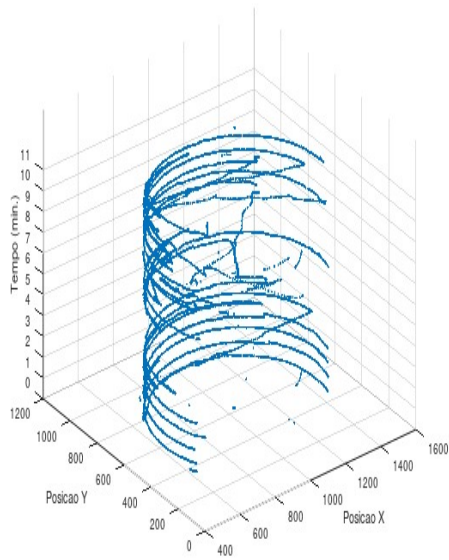
Fig. S. 3. Apparatus for aversive phototaxis suppression assay.



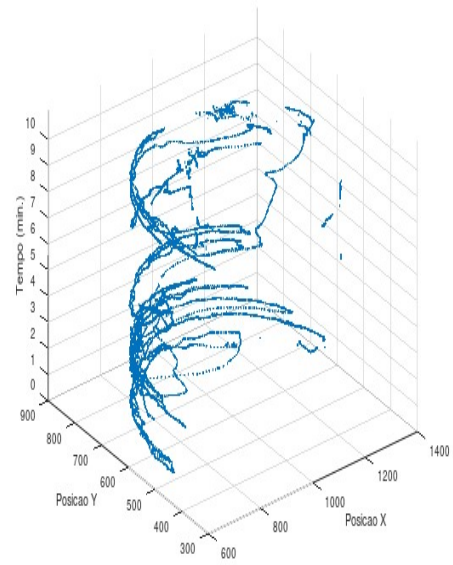
Length: 3.0 cm; width:1.5 cm; height: 3.6 cm in each compartment.

Fig. S. 4. Apparatus used for light/dark test.

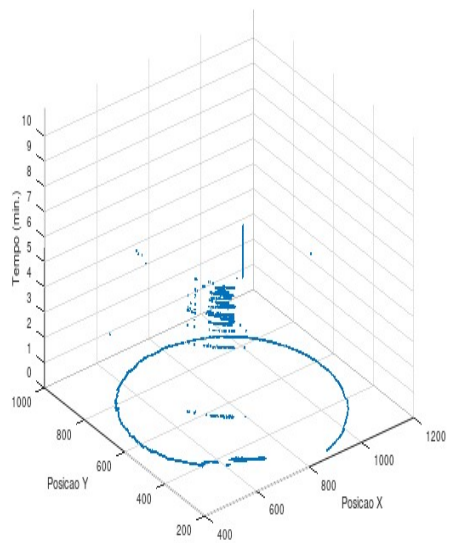
A) CONTROL



B) 4-PSQ



C) ROT



D) ROT+ 4-PSQ

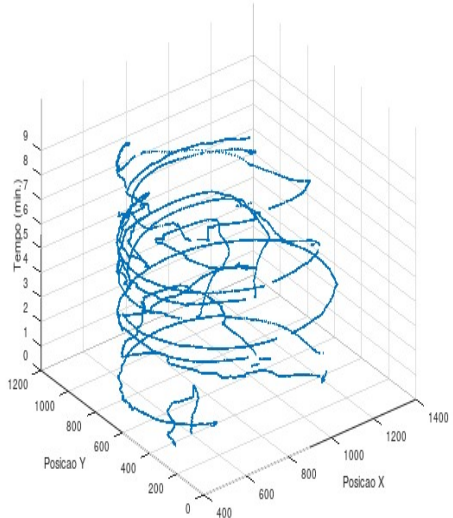


Fig. S.5. Images of the trajectories traversed in the open field test of each experimental group's fly, obtained through the idTracker program (Pérez-Escudero et al., 2014) and processed by GNU Octave. The blue line represents the trajectories of the flies. Figure (A) represents the trajectories of control group fly, (B) 4-PSQ (25 μ M) group, (C) ROT (500 μ M) group, and (D) 4-PSQ (25 μ M) + ROT (500 μ M) group).