



S7 Fig. Or59b-mediated acetone attraction in *D. melanogaster*.

Two-choice assay showing that acetone at 50 μ L of the 10^{-4} dilution ($v v^{-1}$) elicits attraction in w^{1118} *D. melanogaster* flies. This attraction was abolished in both *Or59b⁻¹* lines ($H = 9.28$, $d.f. = 2$, $P = 0.01$; $**P < 0.01$ compared to the w^{1118} , One-Way ANOVA on Ranks, $n = 10$ for each line).