



S8 Fig. Behavioral responses of *W¹¹¹⁸* and *Or98a^{-/-}* flies to (*E*)-β-farnesene.

(A) Two-choice assay to measure fly response to increasing concentrations of (*E*)-β-farnesene [$n = 13$ for 50 μ L of the 10^{-4} and 10^{-3} dilutions ($v v^{-1}$), and $n = 12$ for 50 μ L of the 10^{-2} dilution ($v v^{-1}$)]. (B) Repellency by (*E*)-β-farnesene was abolished in both *Or98a^{-/-}* flies. Behavioral responses of *w¹¹¹⁸* and two *Or98a^{-/-}* lines to (*E*)-β-farnesene at 10^{-2} dilution ($v v^{-1}$) ($H = 6.36$, $d.f. = 2$, $P < 0.042$; $*P < 0.05$ compared to *w¹¹¹⁸*, One-Way ANOVA on Ranks with Dunnett's test against control, $n = 16$ for each fly line.