Figure S4  Silencing the mushroom body in 30Y\textsuperscript{GAL4} females disrupts aversive positional and attractive egg-laying responses. (A) At the non-permissive temperature (30°C), 30Y\textsuperscript{GAL4} females expressing UAS-Shi\textsuperscript{ts} in the mushroom body lose both positional aversion and egg-laying attraction to 0.50 mM lobeline when compared to relevant controls (gray bars). (*, P<0.05; 1-way ANOVA, Bonferroni post-test for comparison between columns within the 23°C or 30°C groups; 2-way ANOVA, Bonferroni post-test for comparison between temperatures within same genotypes; n=8). Of note, the positional aversion between 30Y\textsuperscript{GAL4}/UAS-Shi\textsuperscript{ts} females at 25°C and 30°C were not significantly different in the 2-way ANOVA Bonferroni post-test, likely due to the fact that leaky activity of the UAS-Shi\textsuperscript{ts} transgene also caused a decrease of positional aversion at the permissive temperature. Additionally, 30Y\textsuperscript{GAL4}/+ females demonstrated a significant increase in positional aversion at 23°C, when compared to UAS-Shi\textsuperscript{ts}/+ (*, P<0.05). However, this increase in positional aversion resulting from 30Y\textsuperscript{GAL4} construct in the heterozygote did not affect the 30Y\textsuperscript{GAL4}/UAS-Shi\textsuperscript{ts} females, which still lost positional aversion.