Figure S3  Homozygous survival plotted as a function of population density, and with dVMAT mutants expressing UAS-DVMAT using the indicated drivers. (A) Survival of homozygous dVMAT progeny (/-) are plotted as a function of population density (black circles). Data for dVMAT mutants expressing UAS-DVMAT using the Ddc-Gal4 are shown in gray. Rescue of dVMAT using TH-Gal4 (B), TrH-Gal4 (C), Tdc-Gal4 (D), and daughterless-Gal4 (E) is indicated. Second-order polynomial trendlines are displayed as solid lines. (F) Under standard culture situations (500-1000 progeny/bottle), approximately 6% of the homozygous dVMAT null mutant (/-) progeny survive. Expression of a DVMAT transgene in DA or 5-HT cells using TH-Gal4 (TH), TrH-Gal4 (TrH), or Ddc-Gal4 (Ddc) respectively, do not rescue the survival deficit, whereas expression of DVMAT using da-Gal4 (ubiq5HT) or Tdc2-Gal4 (Tdc) significantly rescues lethality under standard, high density culture conditions (1-way ANOVA, * p<0.05, Bonferroni post test).