Table S1. Percent cfos expression in hippocampus and amygdala. Mice from experiment in Fig. 2 were examined 1-hour following the retrieval trial in ctxB and immunostained for cfos expression. Data is presented as a percentage of total cells counted in the corresponding area. hM_3D_q n = 10, control n = 10. Group means were compared by T-test and p-value is indicated.

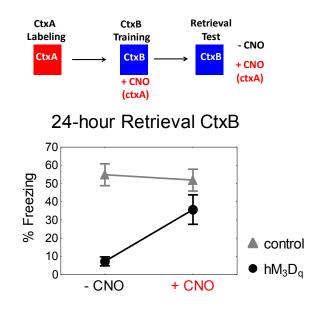


Fig. S1. Using a different context for novel ctxA results in the same effects as shown in experiment 1 (see Fig 3C). hM3D^{fos} mice show impaired 24 hour memory for ctxB that is rescued by injection of CNO. hM3D^{fos} n = 15, control n = 17. Repeated measures ANOVA genotype x CNO interaction F(1,28) = 5.012, p <.05. Post hoc Fisher's LSD test revealed that hM3D^{fos} mice were freezing significantly less than control mice in the absence of CNO, p < 0.001, were statistically similar to controls in the presence of CNO, p = 0.114, and showed a significant increase in freezing in ctxB in the presence of CNO compared to ctxB alone, p <.005.