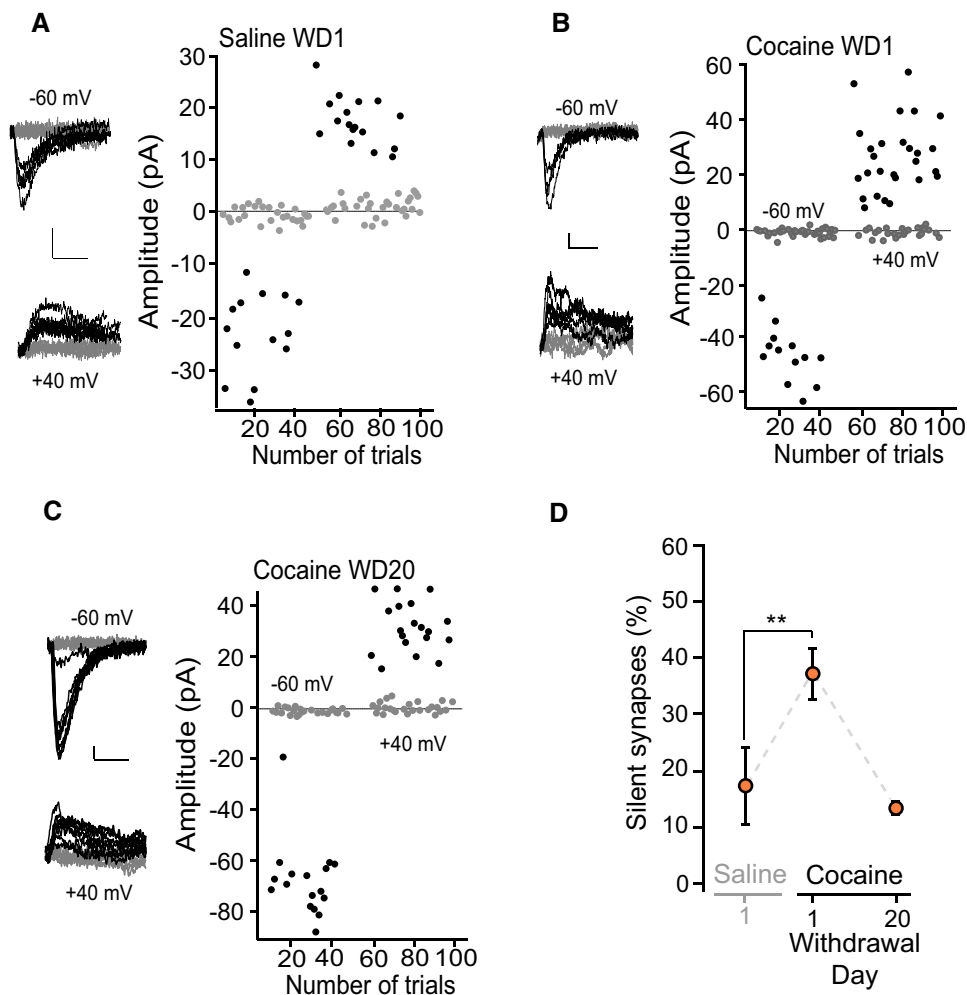


## Expanded View Figures



**Figure EV1. Repeated cocaine administration in the home cage induces the generation of silent synapses on WD1.**

A–C EPSCs evoked at  $-60$  mV and  $+40$  mV by minimum stimulation (left side) over 100 trials from example recordings from NAC MSNs of WT mice with saline WD1 (A), cocaine WD1 (B) and cocaine WD20 (C). Responses are shown in black and failures in gray. Scale bars 10 pA, 5 ms.

D Summarized results showing the percentage of silent synapses (orange circles; saline WD1,  $n/m = 7/18$ ; cocaine WD1,  $n/m = 7/14$ ; WD20,  $n/m = 3/11$ ) in NAC MSNs. Data are given as means  $\pm$  s.e.m.;  $**P < 0.01$ ; one-way ANOVA with Bonferroni post-test.