**Supplementary Material S1**

No differences were observed among saline, non-sensitized and sensitized mice in the novelty test (One Way ANOVA: FigS1A F(2,18) = 0.01; FigS1B F(2,21) = 0.60; FigS1C F(2,22) = 0.52; FigS1D F(2,19) = 0.56). Thus, the locomotor response to a new environment does not predict the variability of the development of behavioral sensitization.