



**Supporting Figure 2.** Normal operant learning in mice with loss-of-function mutations in *Syngap1*, *Nlgn3*, *Dlgap1*, *Dlgap2*, *Shank2* genes. We observed no effects of genotype on the numbers of sessions required by animals in each mutant cohort to complete the various stages of pre-training (“Initial Touch”, “Must Touch”, “Must Initiate” and “Punish Incorrect”). Data presented as mean  $\pm$  standard deviation. Instances where there are no error bars indicates *all* animals in the group required the minimal number of sessions to reach criterion on that stage.