Supplementary Table 1

Overview of Phenotypes Produced by Different Genetic Manipulatons of Nrxn3α/β in Hippocampal and Olfactory Bulb Neurons

Parameter	Nrxn3α/β KO		Nrxn3α KO		Nrxn3α/β SS#4 KI	
1. Hippocampal Neurons						
mEPSC Frequency	↔		↔		↔	
mEPSC Amplitude	↓↓		↔		↓↓	
mIPSC Frequency	↔		n.d.		↔	
mIPSC Amplitude	↔		n.d.		↔	
AMPAR-EPSCs	↓↓		↔		↓↓	
NMDAR-EPSCs	↔		↔		↔	
PPR of NMDAR-EPSCs	↔		↔		↔	
IPSCs		↔		n.d.		↔
2. Olfactory Bulb Neurons						
mEPSC Frequency	↔		n.d.		↔	
mEPSC Amplitude	↔		n.d.		↔	
mIPSC Frequency	↓↓		↓↓		↔	
mIPSC Amplitude	↔		↔		↔	
AMPAR-EPSCs	↔		n.d.		↔	
NMDAR-EPSCs	↔		n.d.		↔	
IPSCs		↓↓		↓↓		↔
PPR of IPSCs		↑↑		↑↑		↔

Summary of synaptic findings cross-compared between three genotypes: *Nrxn3α/β* cKO, *Nrxn3α* KO and *Nrxn3*$^{SS\#4+}$ KI. Arrows indicate changes in synaptic properties measured in the three genotypes from two brain regions.