



Supplementary information, Figure S4 (A) Quantification of the effect of disrupting peptides on surface expression of GluN2A-containing NMDARs induced by neuronal activity. cLTP with PEP-1: $98.5 \pm 3.6\%$, $n = 26$; cLTP with PEP-2: $98.3 \pm 2.9\%$, $n = 31$; cLTP with PEP-3: $99.1 \pm 4.0\%$, $n = 21$; cLTP with SCR-1: $121 \pm 6.2\%$, $n = 26$; cLTP with SCR-2: $115.4 \pm 5.0\%$, $n = 21$; cLTP with SCR-3: $118.4 \pm 5.3\%$, $n = 21$. All data are presented as mean \pm s.e.m. * $p < 0.05$; ** $p < 0.01$.