



**Figure 5.** *CaMKII* and *CaMKK* are required for the formation of a stable synaptic depression during LTP. *A*, Control traces showing a 100 pA current step (top) and a 100% EPSC (bottom) in a control neuron. *B*, *C*, Traces showing a 100 pA current step (top) and a 100% EPSC (bottom) in a neuron treated with *CaMKII* inhibitor (NBQX) or *CaMKK* inhibitor (ML9001). The graphs show the EPSC amplitude (100% EPSC) over time. *D*, *E*, Traces showing a 100 pA current step (top) and a 100% EPSC (bottom) in a neuron treated with *CaMKII* inhibitor (NBQX) or *CaMKK* inhibitor (ML9001) in the presence of *CaMKII* inhibitor (NBQX) or *CaMKK* inhibitor (ML9001). The graphs show the EPSC amplitude (100% EPSC) over time. Scale bar, 100 pA and 100% EPSC.

EPSCs were recorded in the presence of NBQX (50  $\mu$ M) and TBOA (50  $\mu$ M) to block spillover from other synapses. The EPSCs were recorded in the presence of NBQX (50  $\mu$ M) and TBOA (50  $\mu$ M) to block spillover from other synapses.