

Supplementary Figure 1. Following Late-training the temporal profile of evoked activity was not significantly different between simultaneously recorded ChR2+ and opsin-negative neurons. A, Sample traces of evoked polysynaptic activity (5 traces per cell and mean (bold)) from a simultaneously recorded pair of ChR2+ and Opsin- pyramidal neurons in response to red-alone. **B**, Comparison of the mean \pm SEM (shading) of evoked activity in simultaneously recorded ChR2+ and Opsin- pyramidal neurons from Late-trained slices (Opsin-: 8, ChR2+: 8). **C**, Average median event time of evoked network activity was not significantly different in ChR2+ and Opsin- neurons from Late trained slices. Data are presented as median event times \pm SEM: 398 \pm 45 ms and 516 \pm 41 ms for ChR2+ and Opsin- pyramidal neurons, respectively; n = 11, n = 24, p = 0.089, two-sided unpaired t-test. **D**, Average median peak time of evoked network activity was not significantly different in ChR2+ and Opsin- neurons from Late trained slices. Data are presented as median peak times \pm SEM: 593 \pm 38 ms and 673 \pm 36 ms for ChR2+ and Opsin- pyramidal neurons, respectively; n = 11, n = 24, p = 0.185, two-sided unpaired t-test.