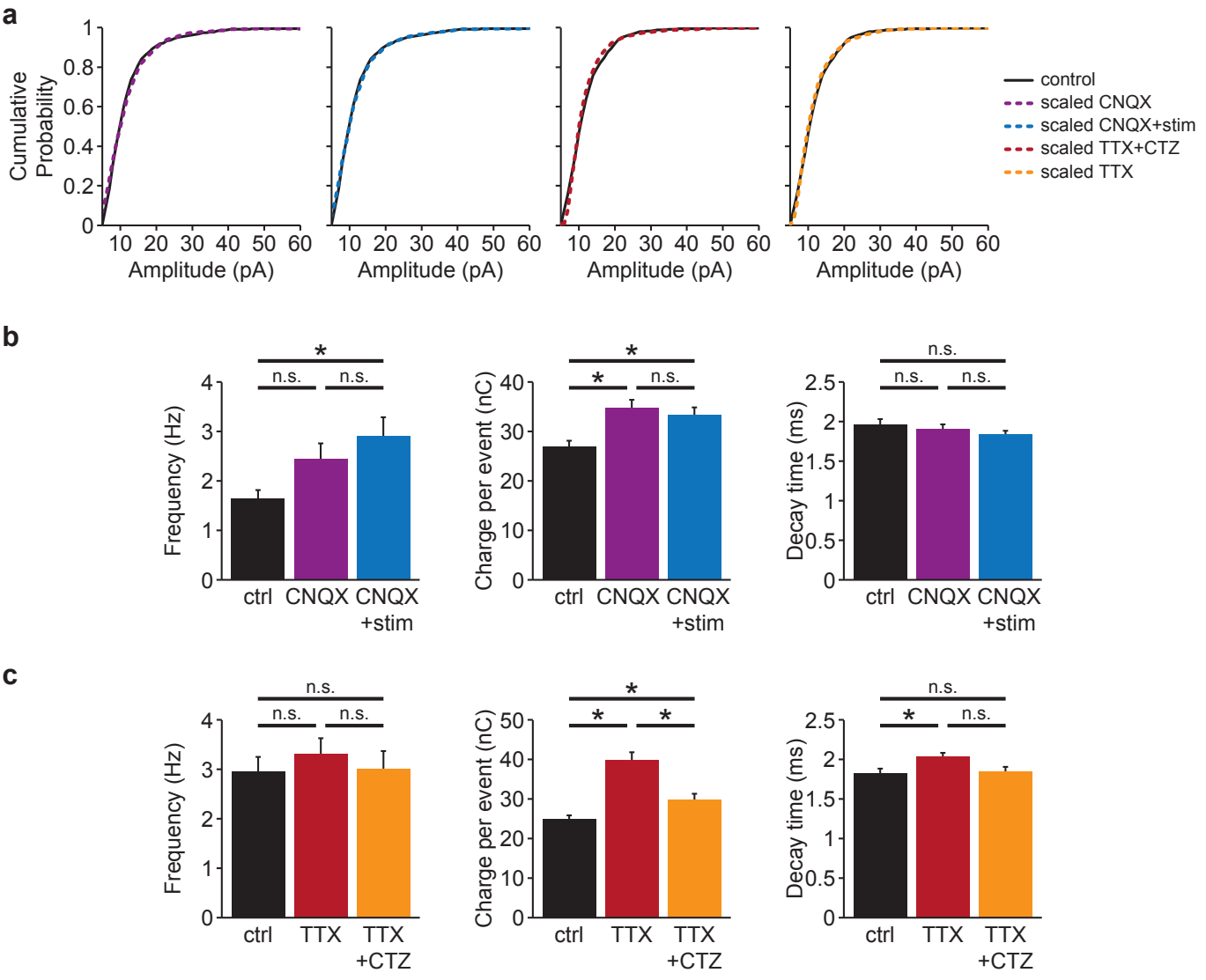

Supplementary Figure 7: Scaled mEPSC amplitude distributions, and other mEPSC features. **(a)** Scaled mEPSC amplitude distributions for CNQX, CNQX+photostimulation, TTX, and TTX+CTZ (same data as Figs. 3 and 4). Scaled distributions are no different that those from sister controls (CNQX, $p>0.9$; CNQX+stim, $p>0.9$; TTX, $p>0.7$; TTX+CTZ, $p>0.5$). **(b)** Mean frequency (control, 1.645±0.168 pA, $n=44$ cells; CNQX, 2.282±0.270 pA, $n=51$ cells; CNQX+photostimulation, 2.640±0.253 pA, $n=46$ cells; $p<0.02$), charge per event (control, 26.957±1.209 nC; CNQX, 34.804±1.643 nC; CNQX+photostimulation, 33.527±1.373 nC; $p<10^{-3}$), and decay time (control, 1.973±0.062 ms; CNQX, 1.908±0.062 ms; CNQX+photostimulation, 1.841±0.044; $p>0.2$) for CNQX+photostimulation experiments. There are signficance difference in frequency of control vs. CNQX+photostimulation conditions ($p<10^{-2}$), and in charge per event of control vs. both CNQX cases (control vs. CNQX, $p<10^{-3}$; control vs. CNQX+photostimulation, $p<10^{-3}$). **(c)** Mean frequency (control, 2.962±0.297 pA, $n=47$ cells; TTX, 3.321±0.368 pA, $n=58$ cells; TTX+CTZ, 3.008±0.368 pA, $n=50$ cells; $p>0.6$), charge per event (control, 24.909±0.928 nC; TTX, 39.965±1.931 nC; TTX+CTZ, 29.867±1.439 nC; $p<10^{-10}$), and decay time (control, 1.832±0.056 ms; TTX, 2.037±0.053 ms; TTX+CTZ, 1.850±0.061; $p<0.02$) for TTX+CTZ experiments. There are signficance difference in charge between all conditions (control vs. TTX, $p<10^{-8}$; control vs. TTX+CTZ, $p<10^{-2}$; TTX vs. TTXCTZ, $p<10^{-4}$), and in decay time for cultures treated with TTX (control vs. TTX, $p<10^{-2}$).