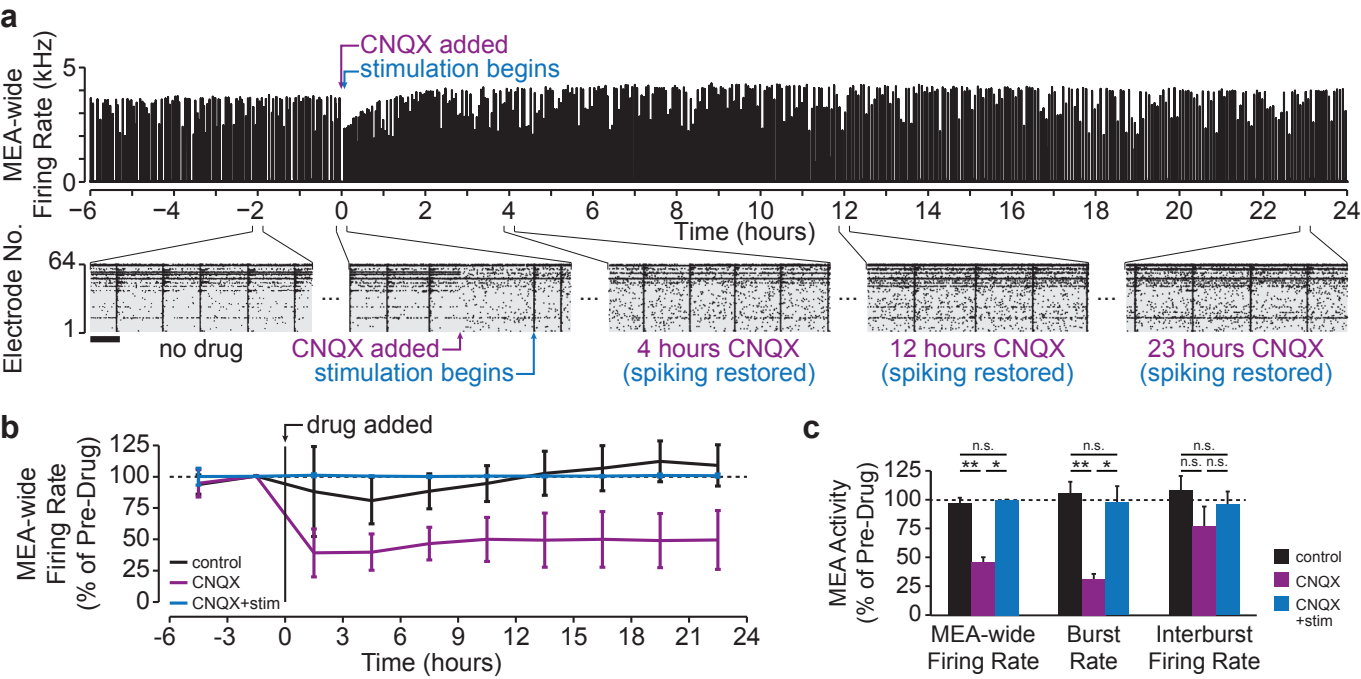
a
CNQX added
stimulation begins
MEA-wide Firing Rate (kHz)
5
0
−6 −4 −2 0 2 4 6 8 10 12 14 16 18 20 22 24
Time (hours)
Electrode No.
64
1
no drug
CNQX added
stimulation begins
4 hours CNQX (spiking restored)
12 hours CNQX (spiking restored)
23 hours CNQX (spiking restored)
b
drug added
MEA-wide Firing Rate (% of Pre-Drug)
125 100 75 50 25 0
control
CNQX
CNQX+stim
-6 -3 0 3 6 9 12 15 18 21 24
Time (hours)
c
MEA Activity (% of Pre-Drug)
125 100 75 50 25 0
n.s.
**
*
n.s.
n.s.
n.s.
control
CNQX
CNQX +stim
MEA-wide Firing Rate
Burst Rate
Interburst Firing Rate