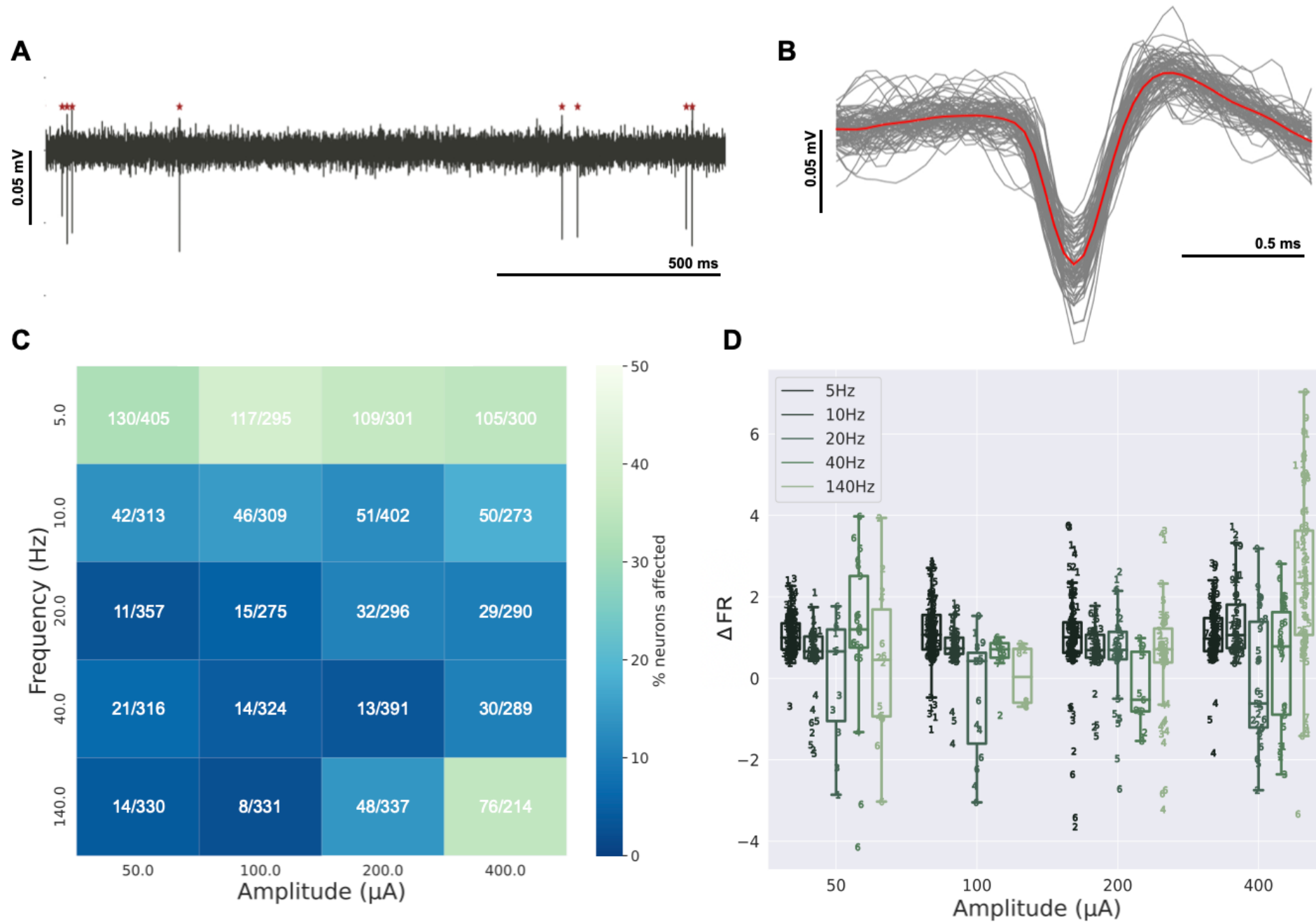


- 4x4 microelectrode array recorded electrophysiological signals from layer 2/3 of somatosensory cortex
- Rats anaesthetized under light propofol (44.0 mg/kg/hr)

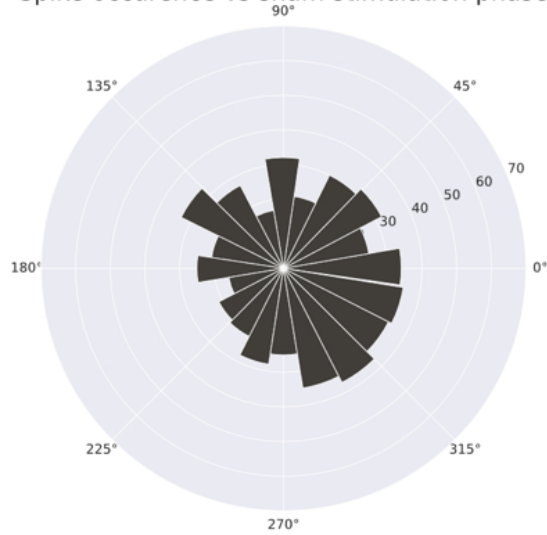
# Firing rate (FR) results



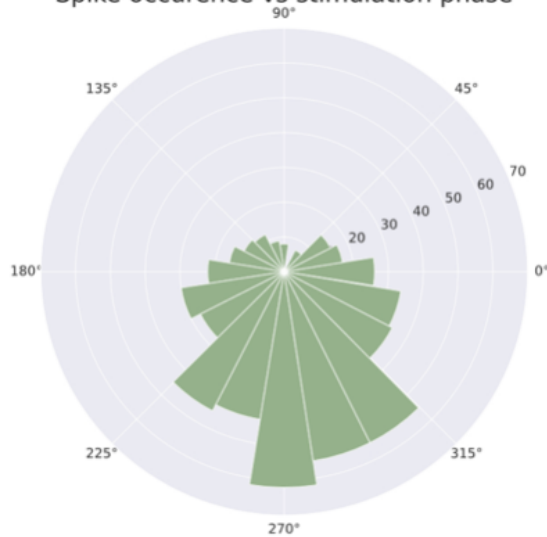
# Pairwise phase consistency (PPC) results

**A**

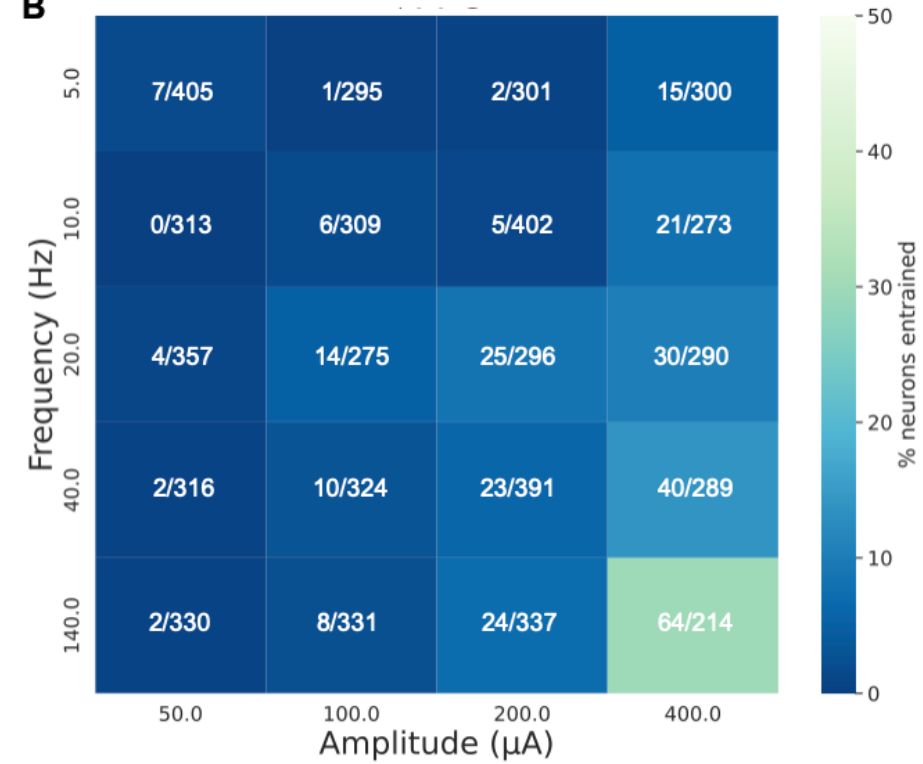
Spike occurrence vs sham stimulation phase



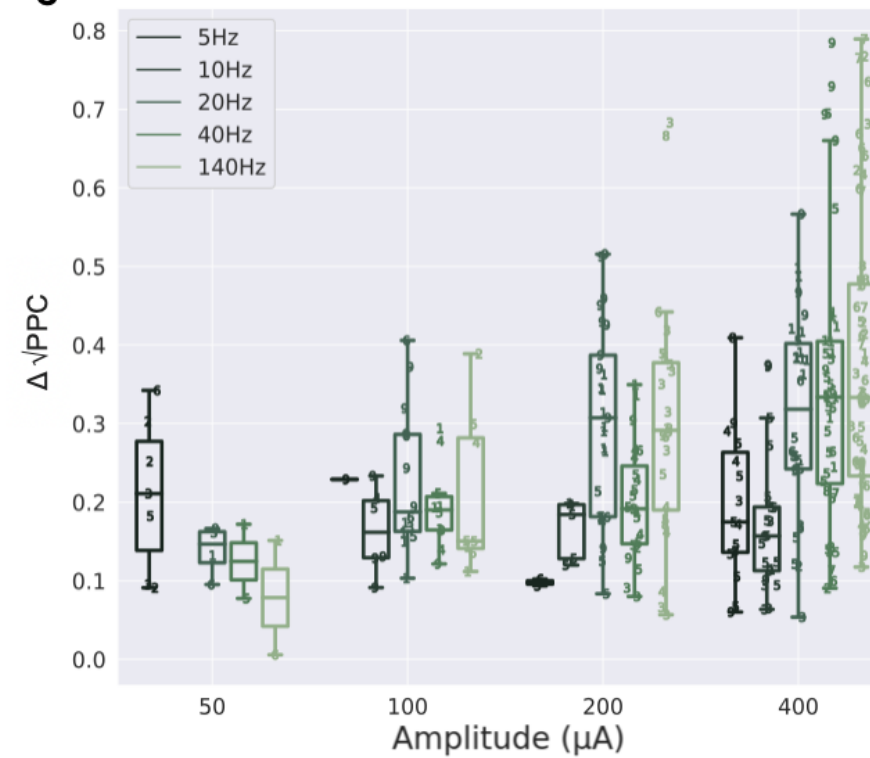
Spike occurrence vs stimulation phase



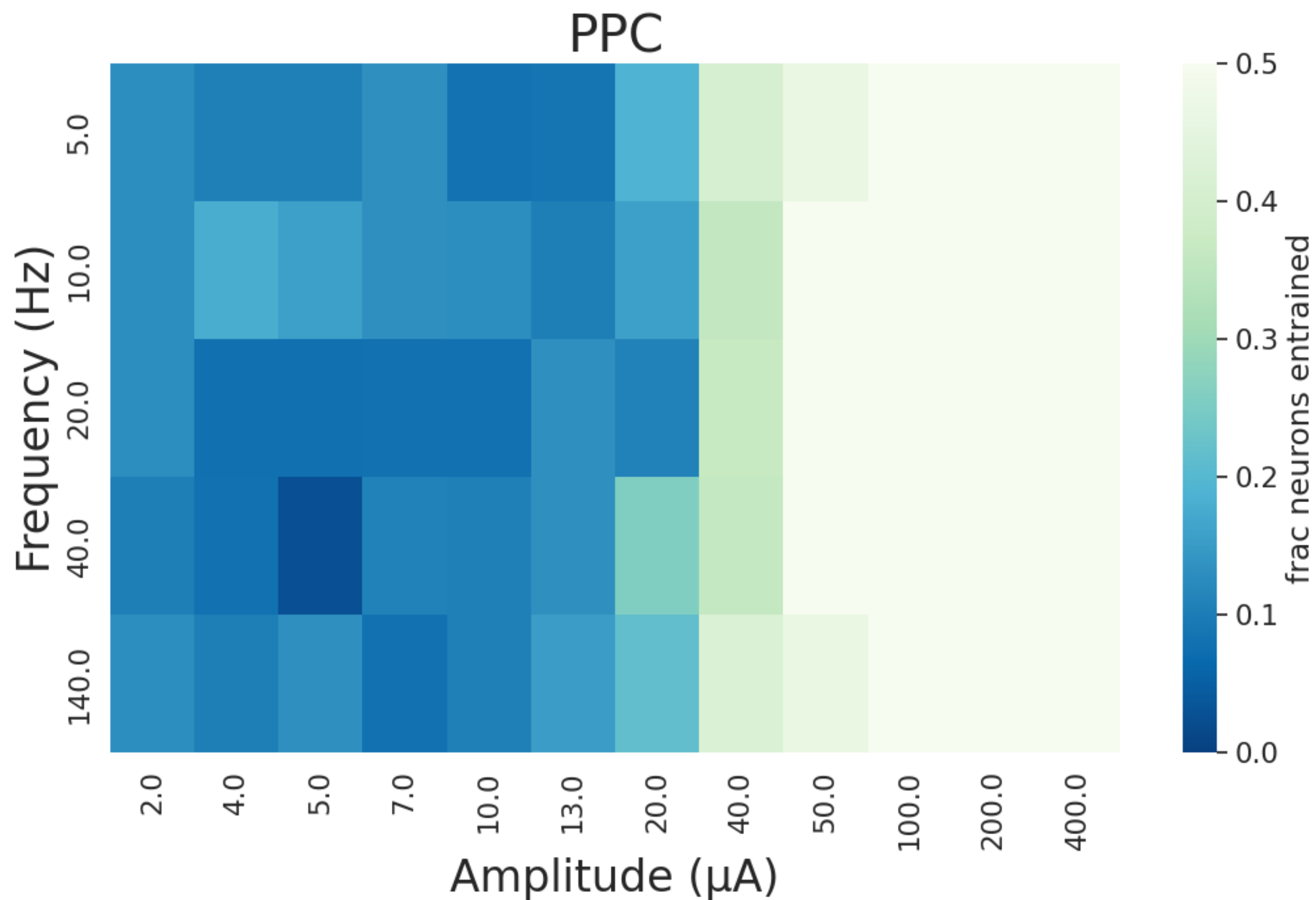
**B**



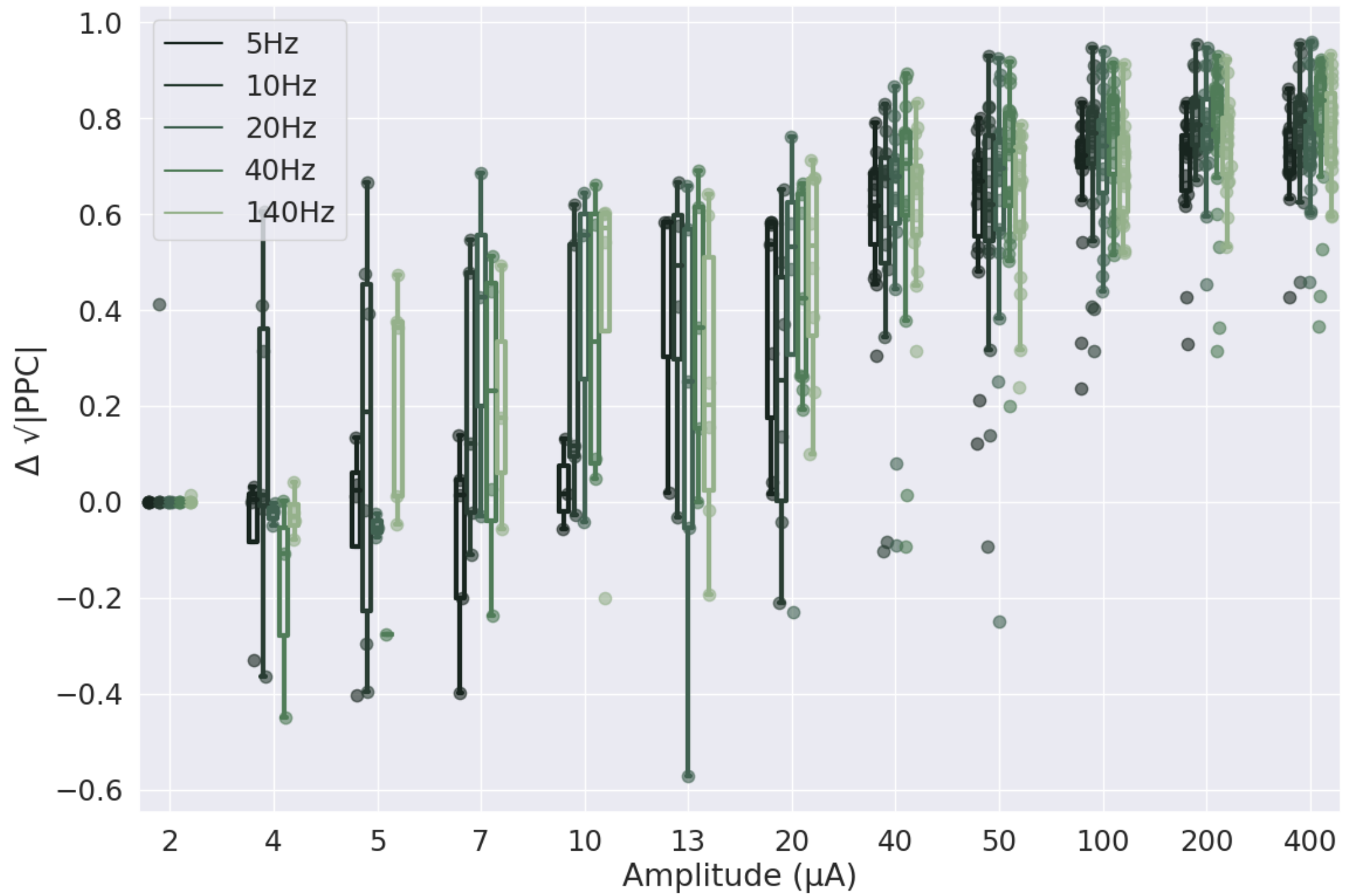
**C**



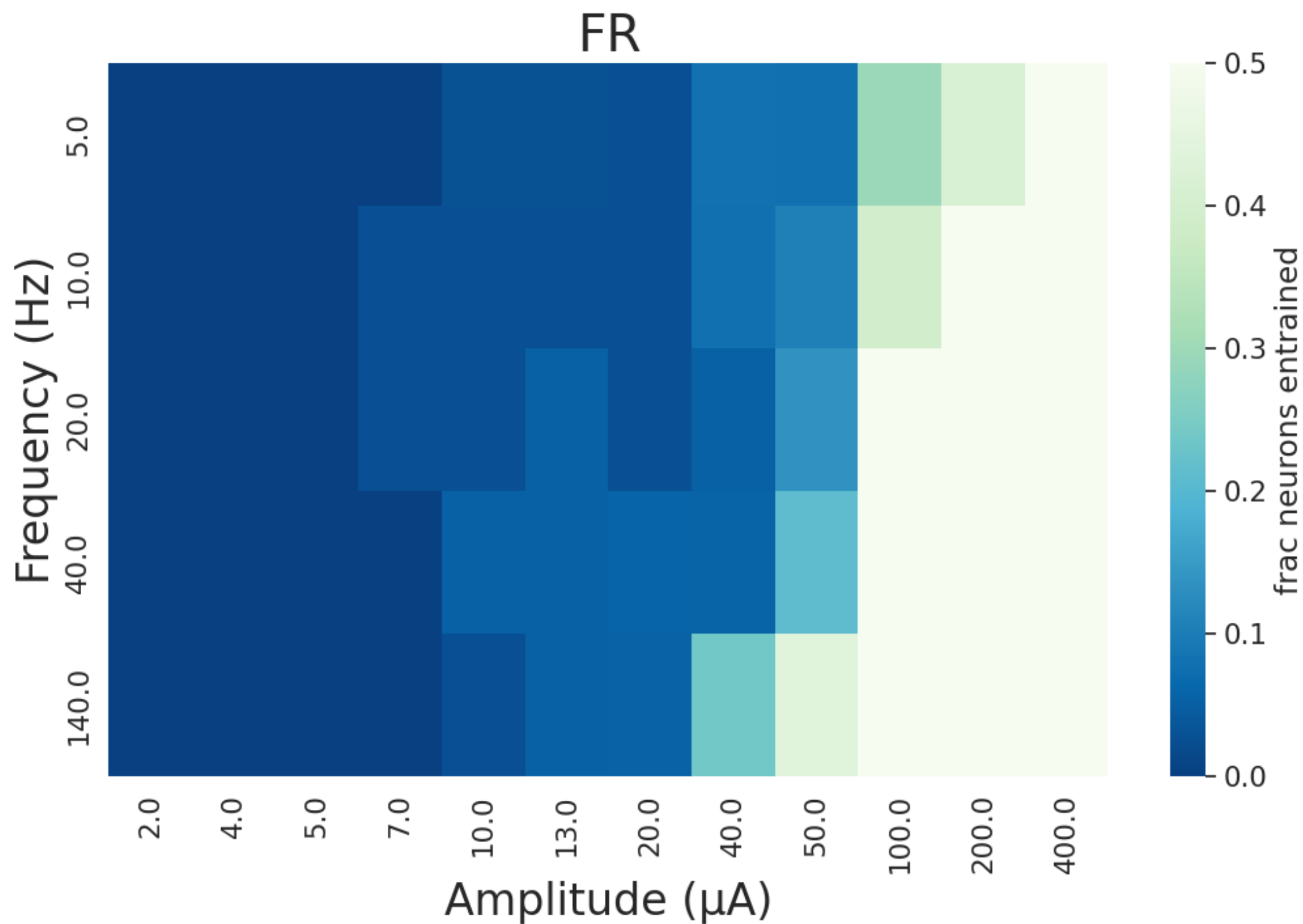
# Pairwise phase consistency (PPC) sim results



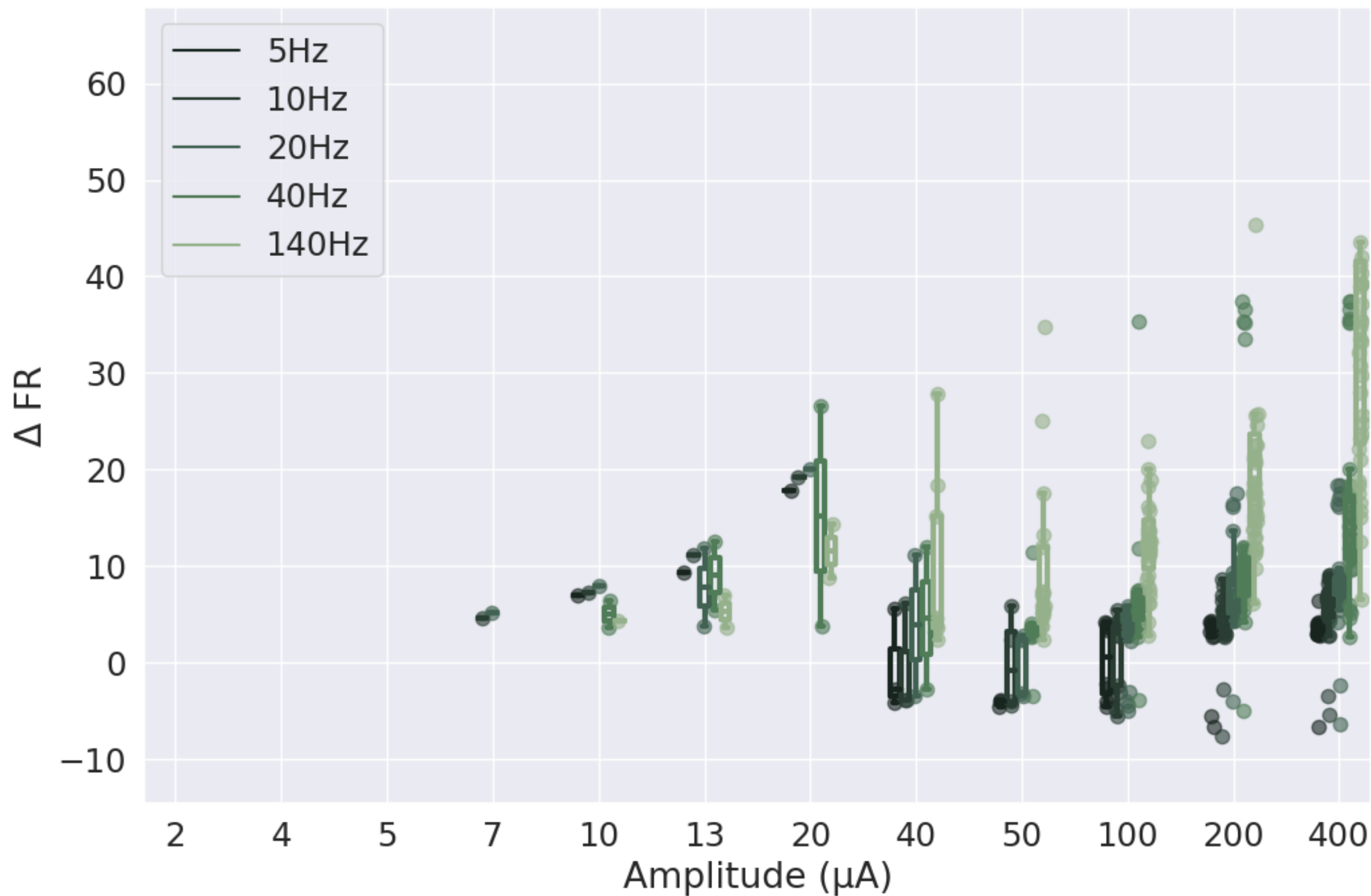
# Pairwise phase consistency (PPC) sim results



# Firing rate (FR) sim results



## Firing rate (FR) sim results



**Regression plots:**

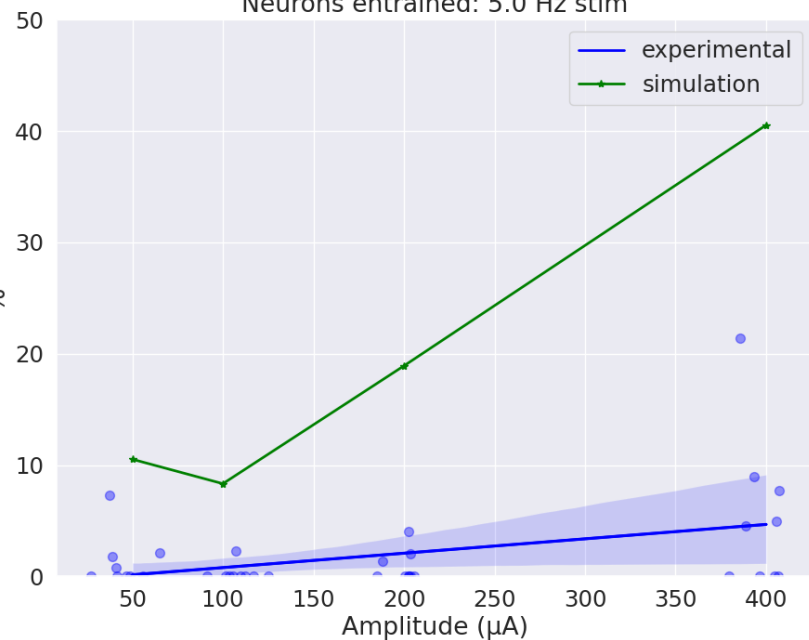
Computed as the regression across rats for # of neurons entrained/# neurons detected

For degree of entrainment - one regression plot per rat (change across neurons per rat)

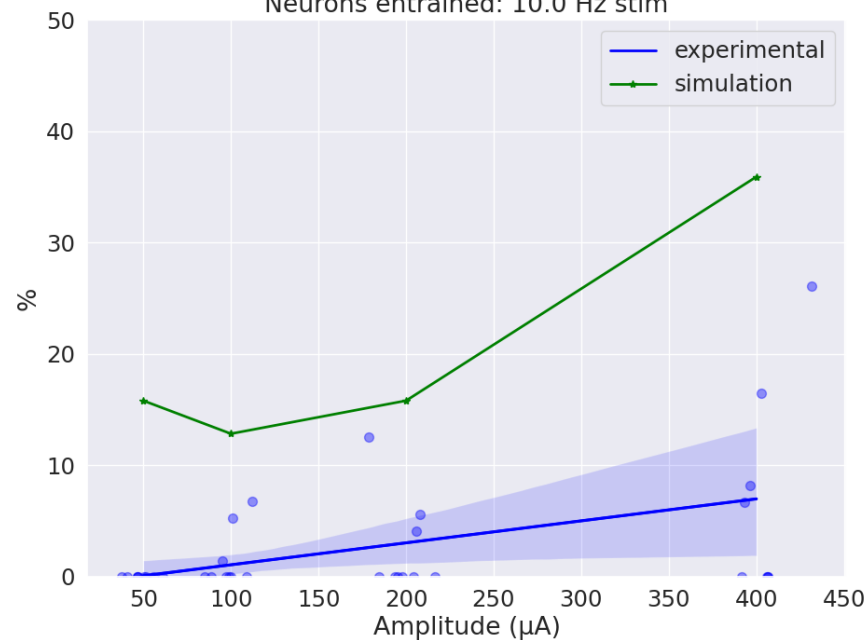
Simulation amplitudes were 1/10 of experimental (5, 10, 20, 40uA) but plotted as 50, 100, 200, 400uA



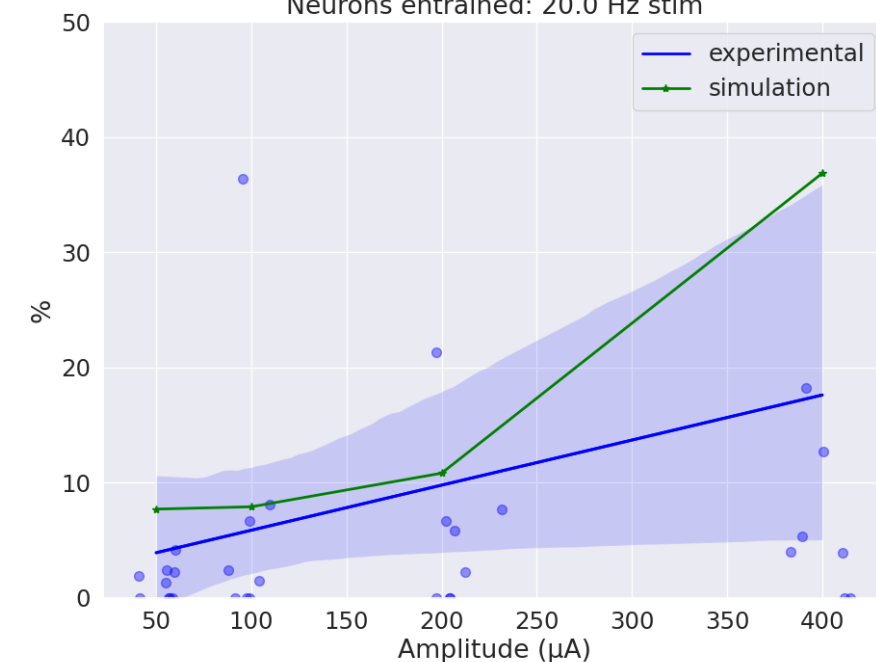
Neurons entrained: 5.0 Hz stim



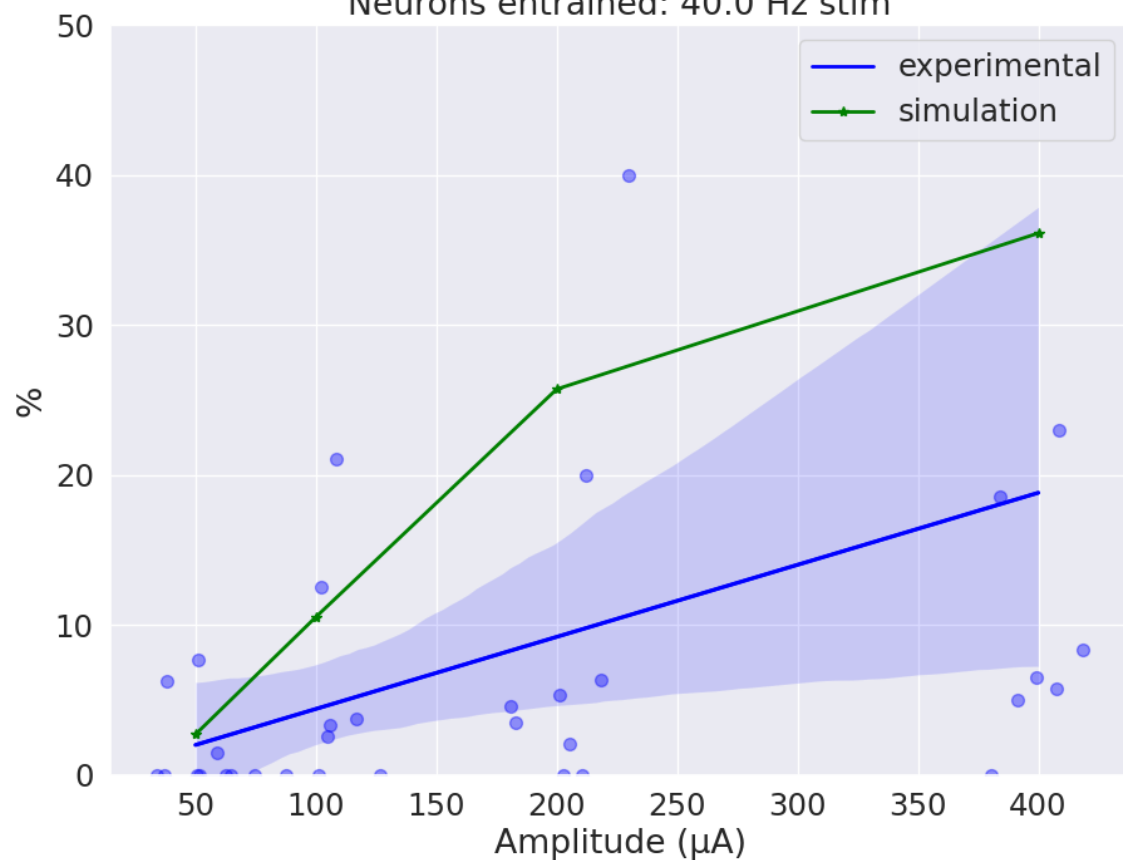
Neurons entrained: 10.0 Hz stim



Neurons entrained: 20.0 Hz stim



Neurons entrained: 40.0 Hz stim



Neurons entrained: 140.0 Hz stim

