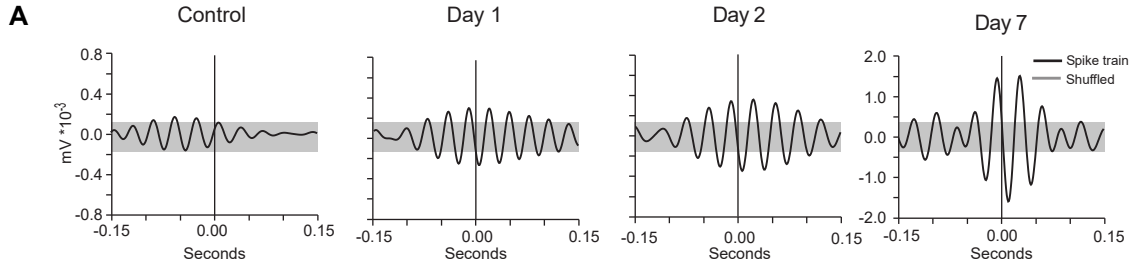
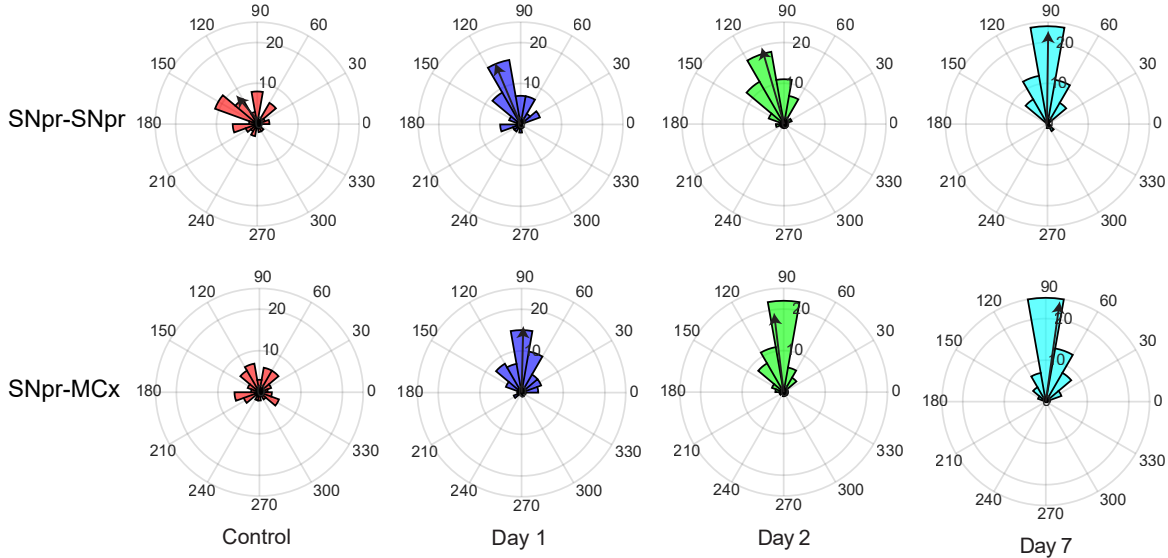


**Supplementary Figure 1**

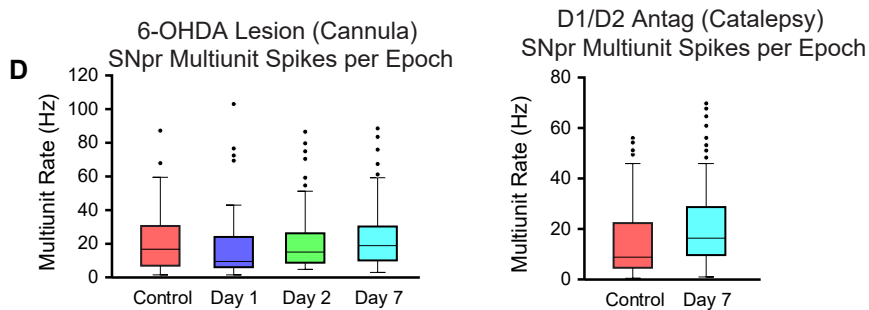
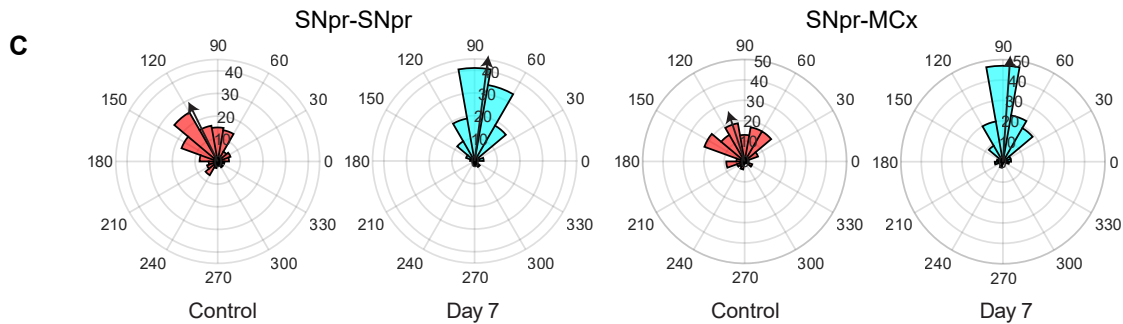
Representative SNpr-MCx High Beta/Low Gamma STWAs



**B** 6-OHDA Lesioned (Cannula) Spike-LFP Phase Distributions



D1/D2 Antagonist (Catalepsy) Spike-LFP Phase Distributions



Supplementary Figure 2