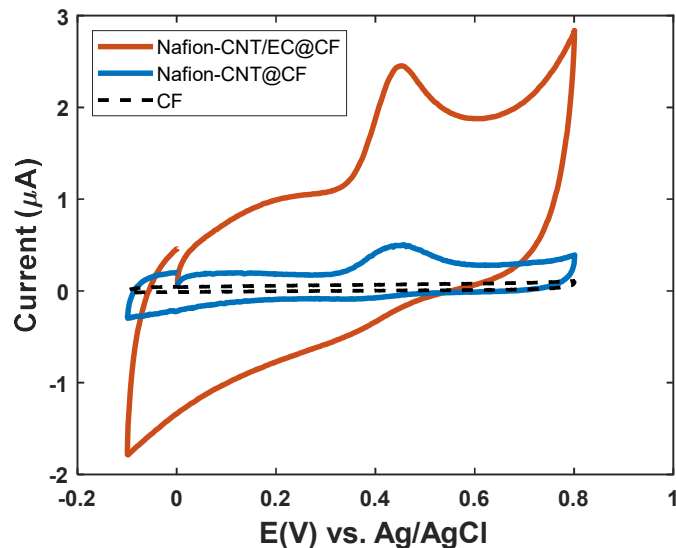
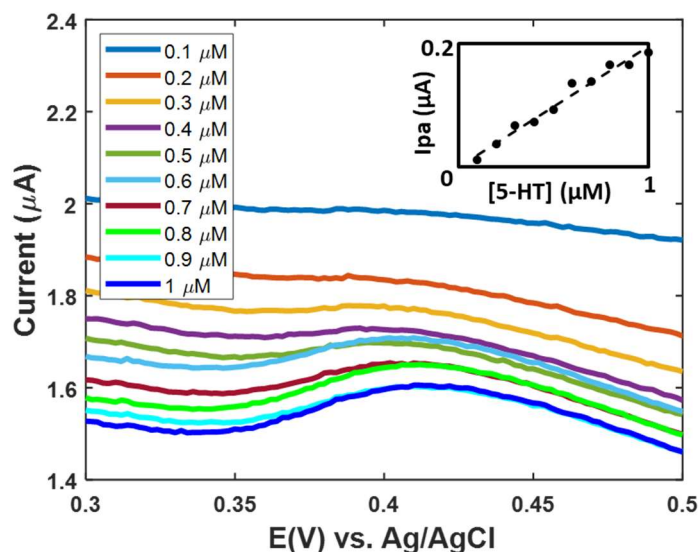


Electrochemical Activation of CNT-coated Carbon Fiber Microelectrodes for Serotonin Sensing

Supplementary Figures



Supplementary Fig. S1: Comparison of modified electrodes in their CV detection of 10 μM 5-HT in PBS (Orange: Nafion-CNT/EC@CF, Blue: Nafion-CNT@CF, Black dashed: bare CF). The peak oxidation currents (I_{pa}) are 1.25 μA , 0.32 μA for Nafion-CNT/EC@CF and Nafion-CNT@CF, respectively. No peak oxidation peak was detected by the bare CF electrode.



Supplementary Fig. S2: 5-HT sensitivity of the Nafion-CNT/EC@CF electrode, assessed by CV response to 0.1 - 1 μM 5-HT in PBS. Inset: Linear trend between 5-HT concentration and I_{pa} with a slope of 0.19 $\mu\text{A}/\mu\text{M}$ ($R^2=0.9744$), indicating sensitivity.