

A PEDOT: PSS-MWCNT-Modified MEA Platform with Integrated Electrical Stimulation for Enhanced Maturation and Drug Screening of iPSC-Cardiomyocytes

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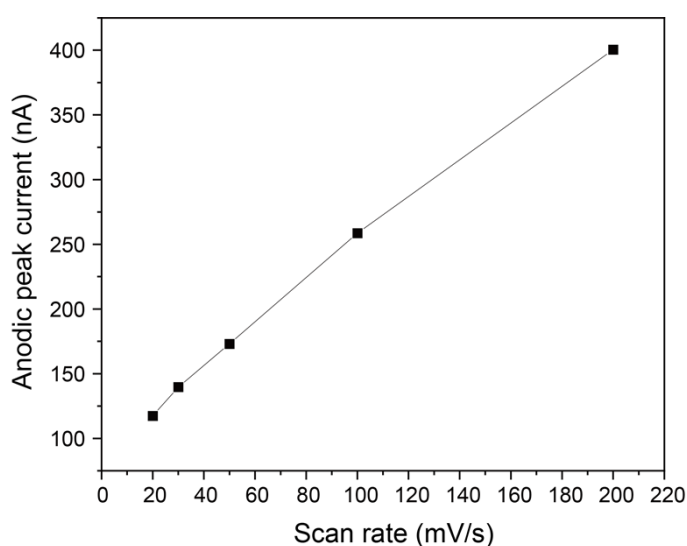
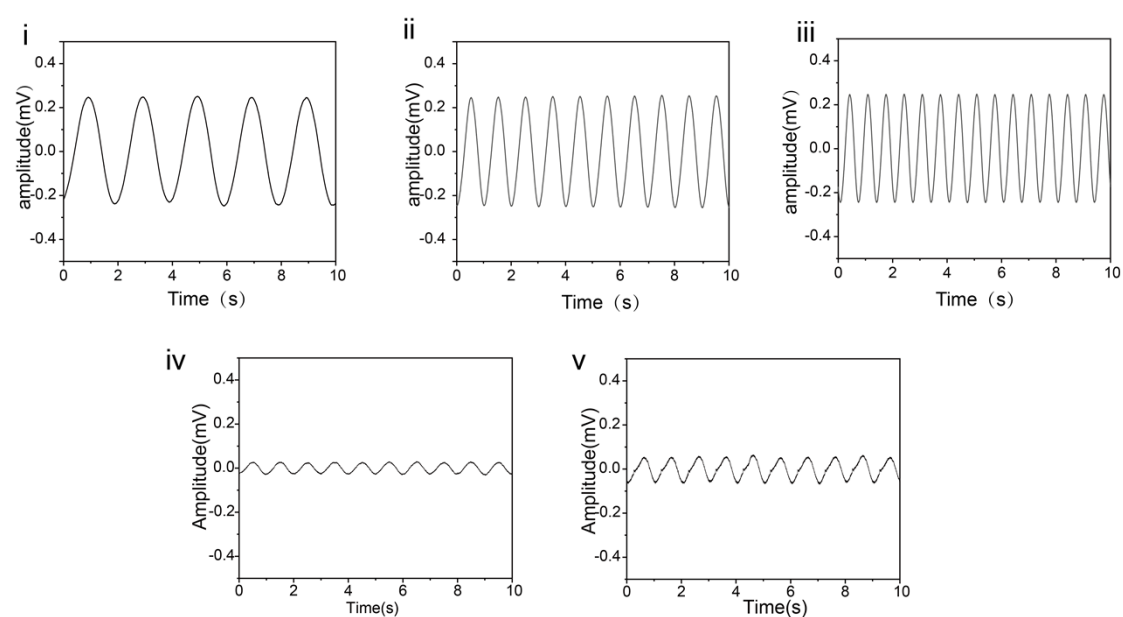


Figure S1. The linear relationship between scan rate and oxidation peak current was obtained from cyclic voltammetry measurements.



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17 **Figure S2.** Representative field potential waveforms were recorded from cardiomyocytes cultured
 18 on bare gold and PEDOT: PSS-MWCNT electrodes on day 7.



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20 **Figure S3.** Representative output signals recorded from PEDOT: PSS-MWCNT microelectrodes in
 21 PBS during sinusoidal input stimulation ($500\ \mu\text{V}$) delivered via platinum electrodes at frequencies
 22 of 0.5 Hz (i), 1 Hz (ii), and 1.5 Hz (iii). Additional recordings were obtained under 1 Hz stimulation
 23 with reduced input amplitudes of $50\ \mu\text{V}$ (iv) and $100\ \mu\text{V}$ (v).

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