Electronic Supplementary Material (ESI) for Analytical Methods.


# An Electrochemical sensor for paracetamol based on an electropolymerized molecularly imprinted *o*-phenylenediamine film on a multi-walled carbon nanotube modified glassy carbon electrode

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Supporting information

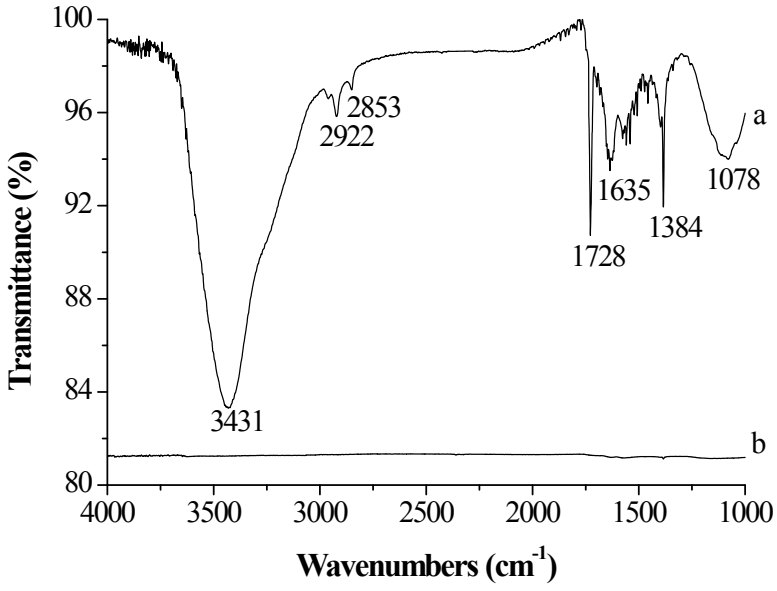


**Fig.S1** FT-IR spectra of MWCNTs (a. acid processed MWCNTs; b. received-MWCNTs).

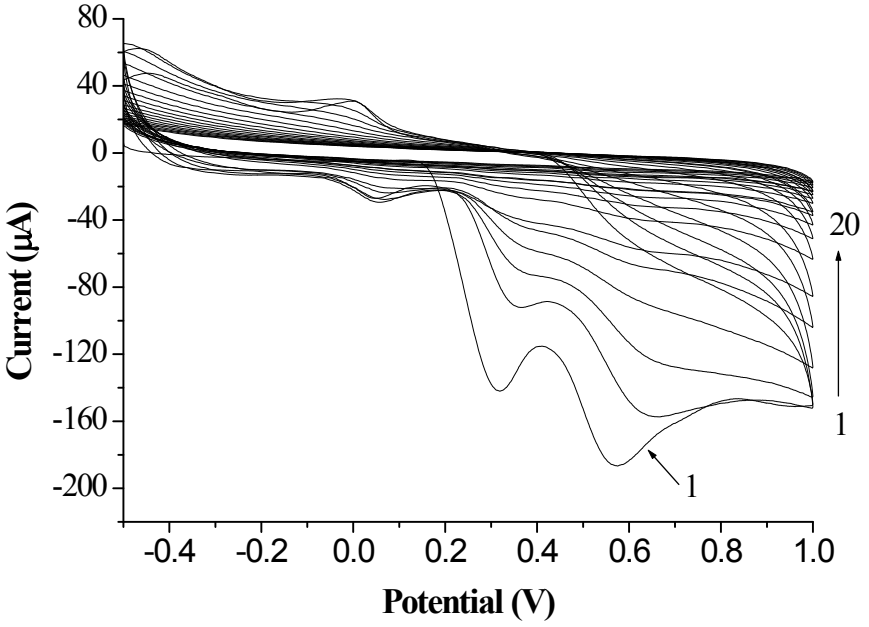


**Fig. S2** Repetitive cyclic voltammograms during the electrocopolymerization of *o*PD (5.0 mmol $L^{-1}$) and PT (5.0 mmol $L^{-1}$) onto MGCE. Scan rate: 50 mV $s^{-1}$. Supporting electrolyte: $N_2$-saturated PBS (0.05 mol $L^{-1}$, pH: 7.0) containing 0.1 mol $L^{-1}$ KCl. Scan circles: 20.

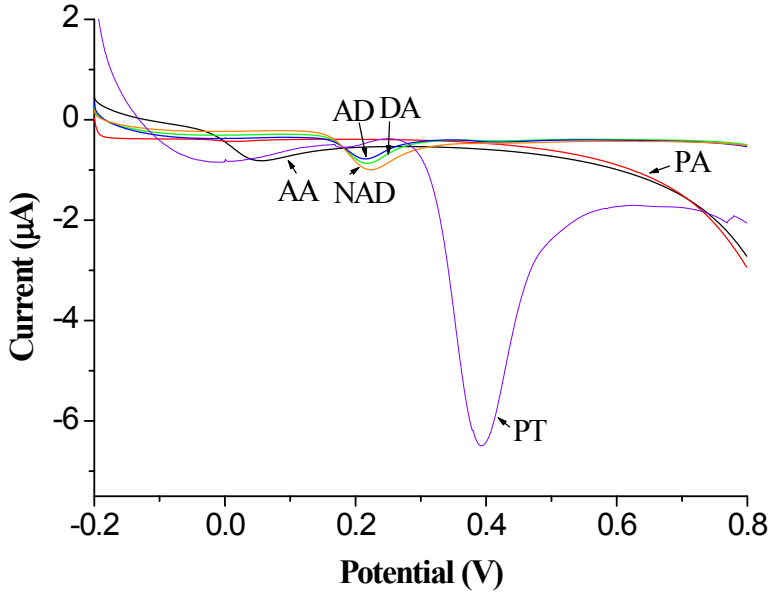


**Fig. S3** LSVs of MIP-MGCE to 10 μmol $L^{-1}$ PT, 10 μmol $L^{-1}$ DA, 10 μmol $L^{-1}$ PA, 10 μmol $L^{-1}$ AA, 10 μmol $L^{-1}$AD and 10 μmol $L^{-1}$ NAD, respectively.

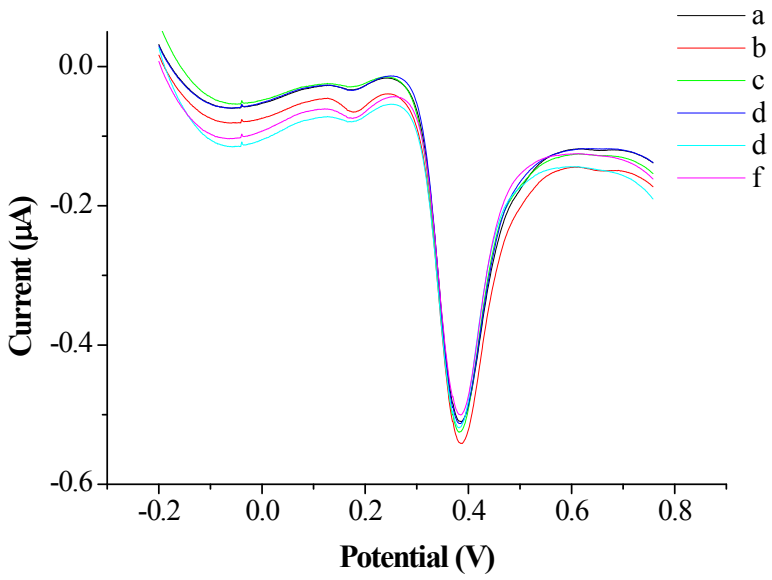


**Fig. S4** LSVs of MIP-MGCE to 1 μmol $L^{-1}$ PT in the presence of 10 μM DA, PA, AA, AD and NAD, respectively. (a) 1 μmol $L^{-1}$ PT; (b) 1 μmol $L^{-1}$ PT and 10 μmol $L^{-1}$ DA; (c) 1 μmol $L^{-1}$ PT and 10 μmol $L^{-1}$PA; (d) 1 μmol $L^{-1}$ PT and 10 μmol $L^{-1}$ AA; (e) 1 μmol $L^{-1}$ PT and 10 μmol $L^{-1}$ AD; (f) 1 μmol $L^{-1}$ PT and 10 μmol $L^{-1}$ NAD.