Supplementary Materials: Electrochemical Detection for Uric Acid Based on β-Lactoglobulin-Functionalized Multiwall Carbon Nanotubes Synthesis with PtNPs Nanocomposite

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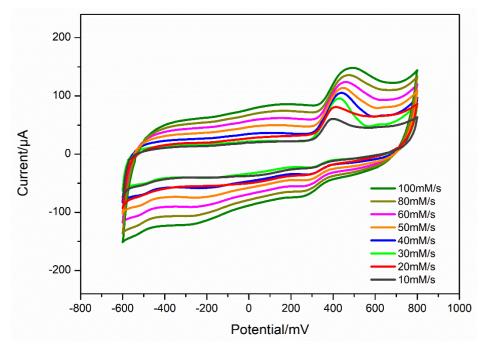


Figure S1. CVs of the scan rate of UA detection with UOx/BSA/BLG-MWCNTs-PtNPs/GCE in same uric acid solution conditions (buffer pH = 7.0, the scanning voltage range -600 mV~800 mV, 0.9 mM) under different scan rate (10 mV/s, 20 mV/s, 30 mV/s, 40 mV/s, 50 mV/s, 60 mV/s, 80 mV/s, 100 mV/s).

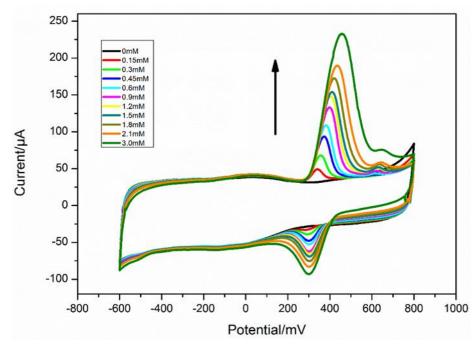


Figure S2. CVs study of UOx/BSA/BLG-MWCNTs-PtNPs/GCE upon different concentrations of UA (0, 0.15, 0.3, 0.45, 0.6, 0.9, 1.2, 1.5, 1.8, 2.1, 3.0 mM) into pH 7.0, 0.1 M PBS solution under stirring

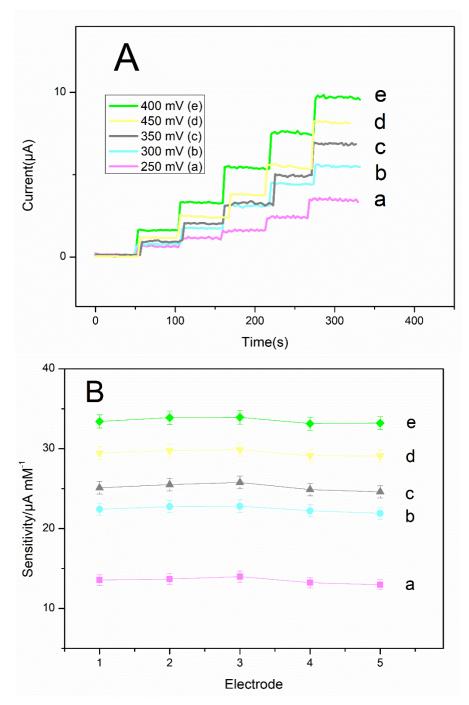


Figure S3. (**A**) Amperometric response of UOx/BSA/BLG-MWCNTs-PtNPs/GCE upon successive additions of 50 μ M uric acid into 0.1 M PBS solution under stirring at operating voltage from 250 mV to 450 mV, the contrast of sensitivity is shown in a bar graph (**B**).