

Electronic Supplementary Information

Protein conjugated carboxylated gold@reduced graphene oxide for aflatoxin B₁ detection

Saurabh Srivastava, Shiju Abraham, Chandan Singh, Md. Azahar Ali, Anchal Srivastava, Gajjala Sumana, B. D. Malhotra*

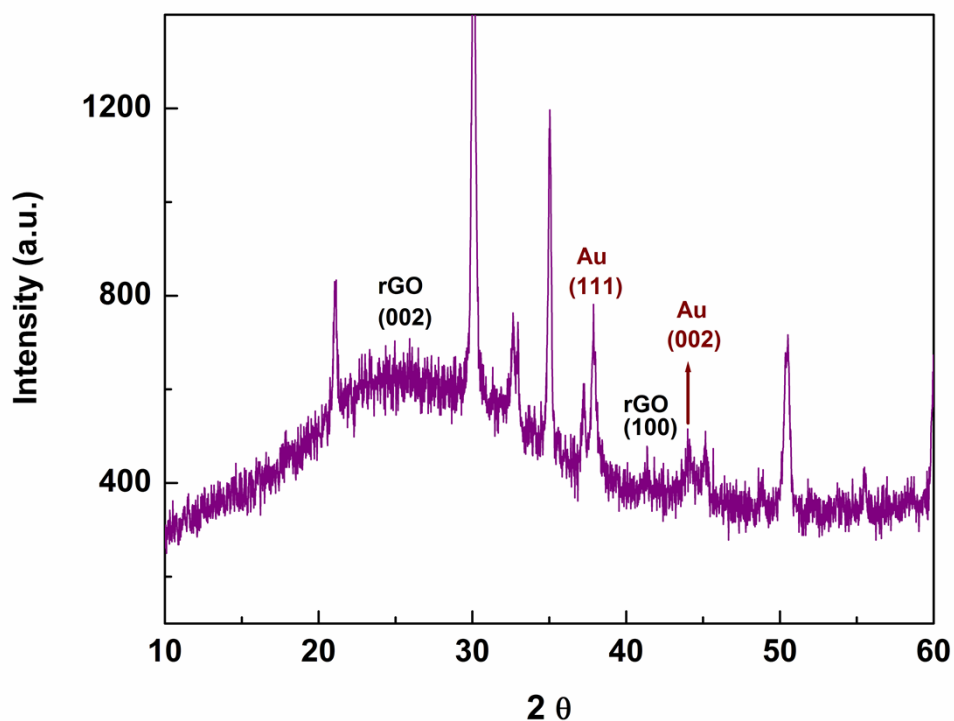


Fig. S1. X-ray diffraction pattern of electrophoretically deposited RGO-Au film over ITO substrate

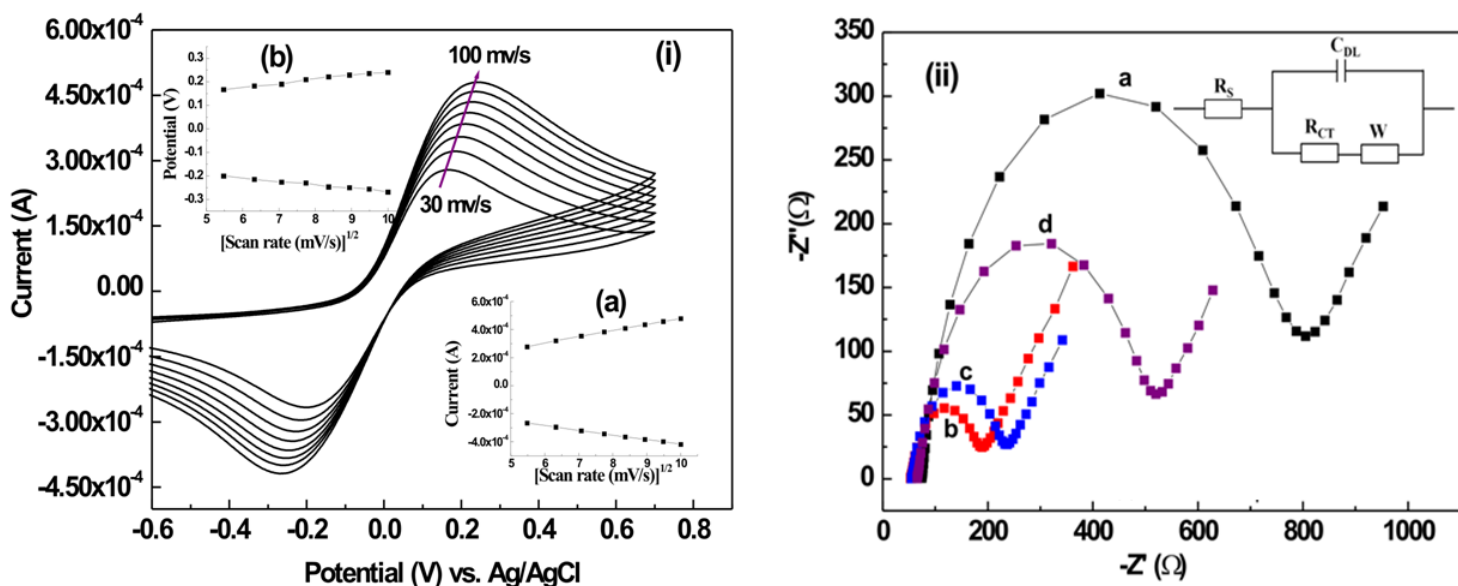


Fig. S2 (i) CV of the BSA/anti-AFB₁/Au@rGO/ITO immunoelectrode obtained at different scan rates (30–100 mV/ s); inset (a): redox peak current as a function of the square root of the scan rate and inset (b): redox peak potential as a function of the square root of the scan rate and (ii) Electrochemical impedance spectra (EIS, Nyquist plot) obtained for (a) rGO/ITO, (b) Au@rGO/ITO, (c) anti-AFB₁/ Au@rGO /ITO and (d) BSA/anti-AFB₁/Au@rGO/ITO electrodes.