

Electronic Supplementary Information-Manuscript Id: RA-ART-02-2016-002928
“Biogenic Synthesis of Reduced Graphene Oxide-Silver (RGO-Ag) Nanocomposite and its Dual Applications as Antibacterial Agent and Cancer Biomarker Sensor”

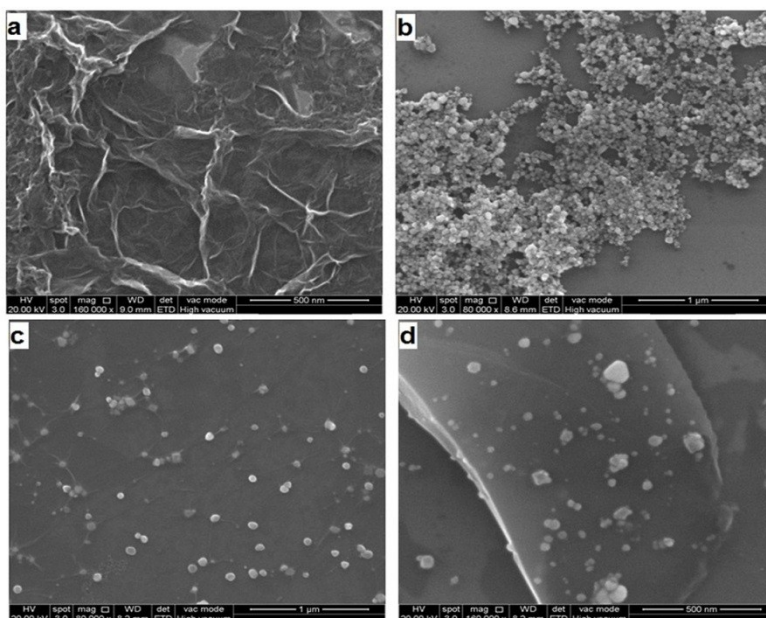


Fig. S1 SEM images of the synthesized (a) RGO (b) AgNPs (c) air-dried RGO-Ag nanocomposite (12 h) and (d) RGO-Ag nanocomposite (24 h).

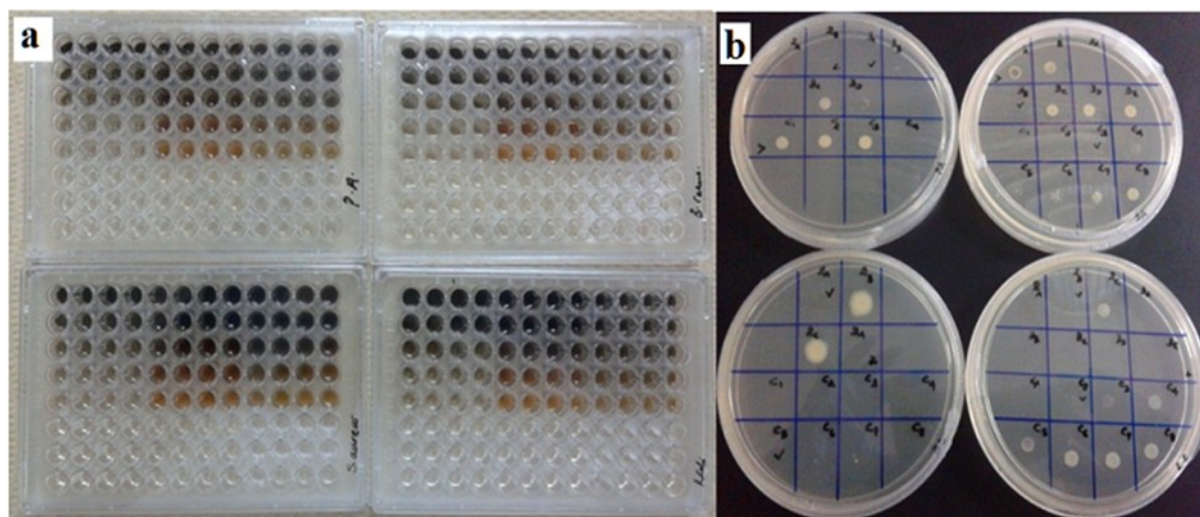


Fig. S2 (a) Broth dilution test to determine the MIC value of RGO, AgNPs, RGO-Ag and chloramphenicol (5 different concentrations) against 4 different bacteria, (b) MBC value calculation of RGO, AgNPs, RGO-Ag and chloramphenicol on 4 different bacteria

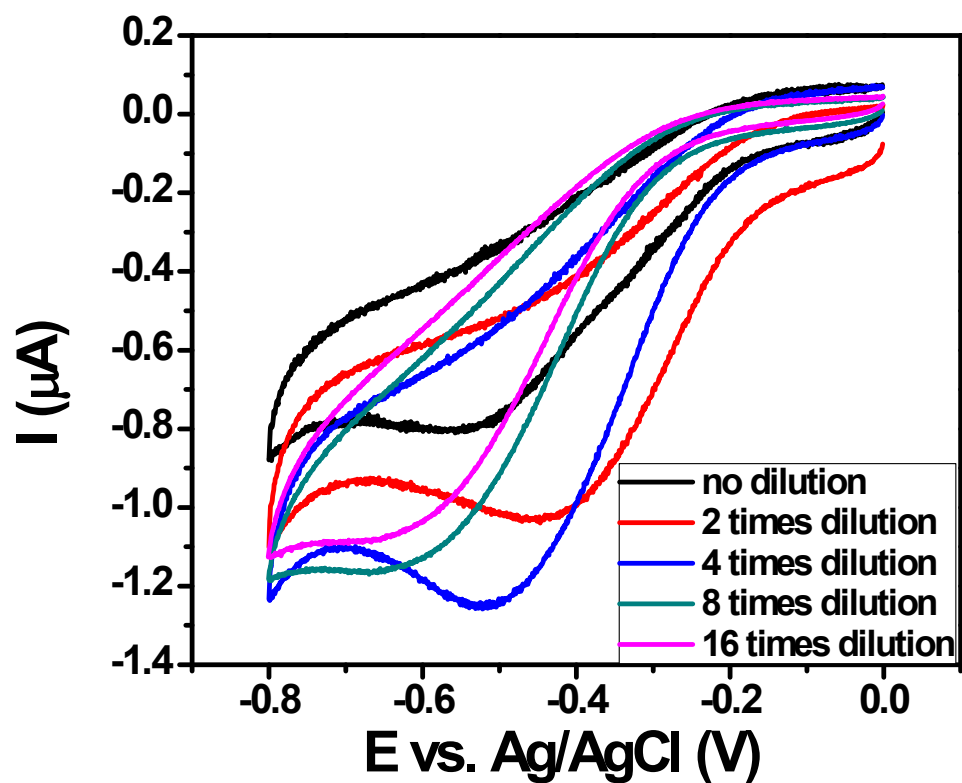


Fig. S3 Cyclic voltammograms recorded at different concentrations of RGO-Ag modified GC electrodes in 0.1 M PBS (pH 7.2) and 0.1 mM H_2O_2 with a scan rate of 50 mV s^{-1} .

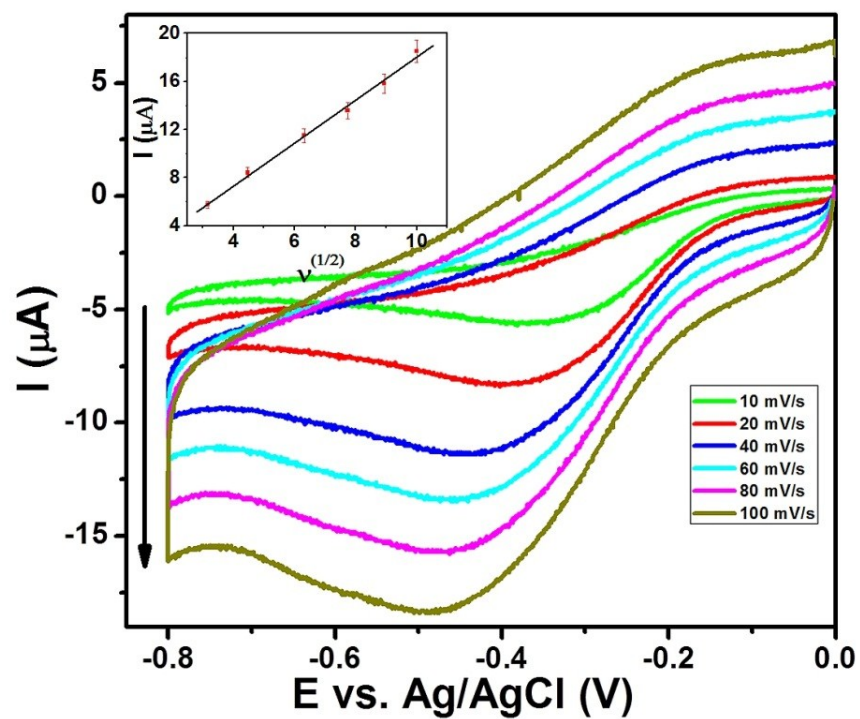


Fig. S4 Cyclic voltammograms recorded for GC/RGO-Ag nanocomposite modified electrode in the presence of 10 μM H_2O_2 in 0.1 M PBS (pH 7.2) at different scan rates (10-100 mV s^{-1}).