

Electrochemically driven optical and SERs immunosensor for the detection of therapeutic cardiac drug

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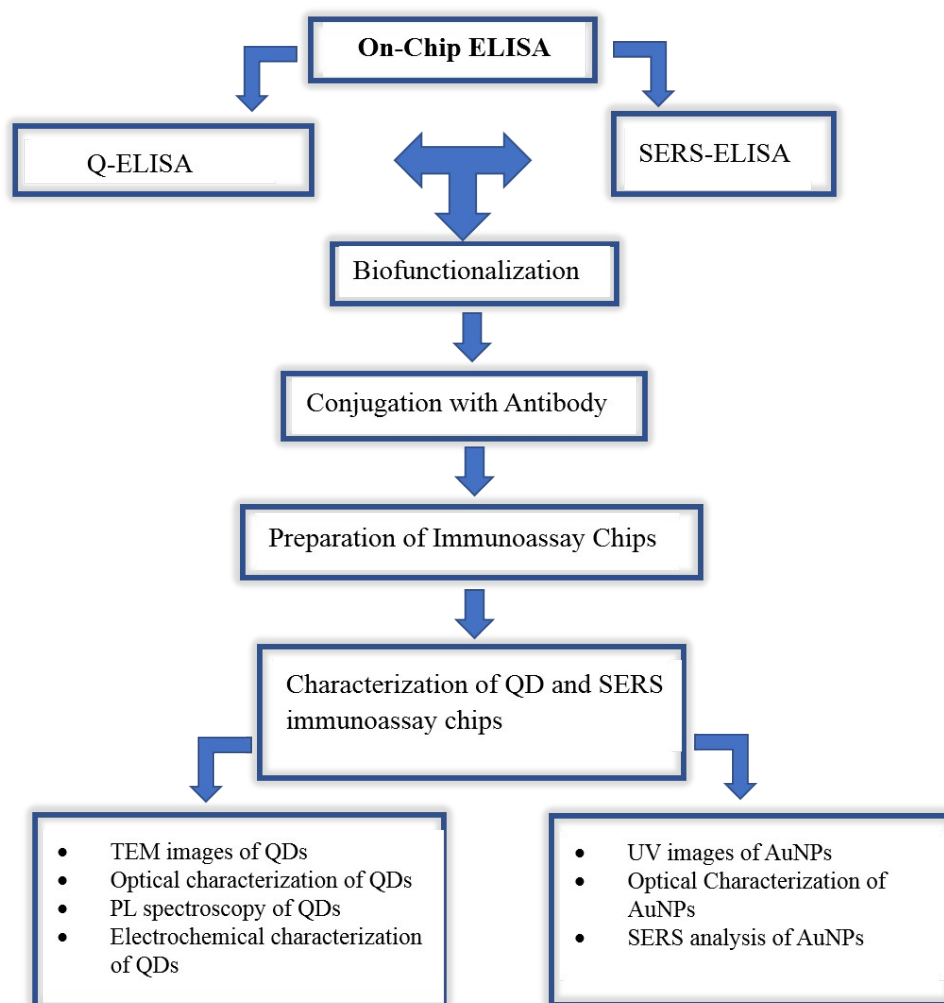


Fig.S1. Flow chart showing the experimental scheme of Q-ELISA and SERS-ELISA.

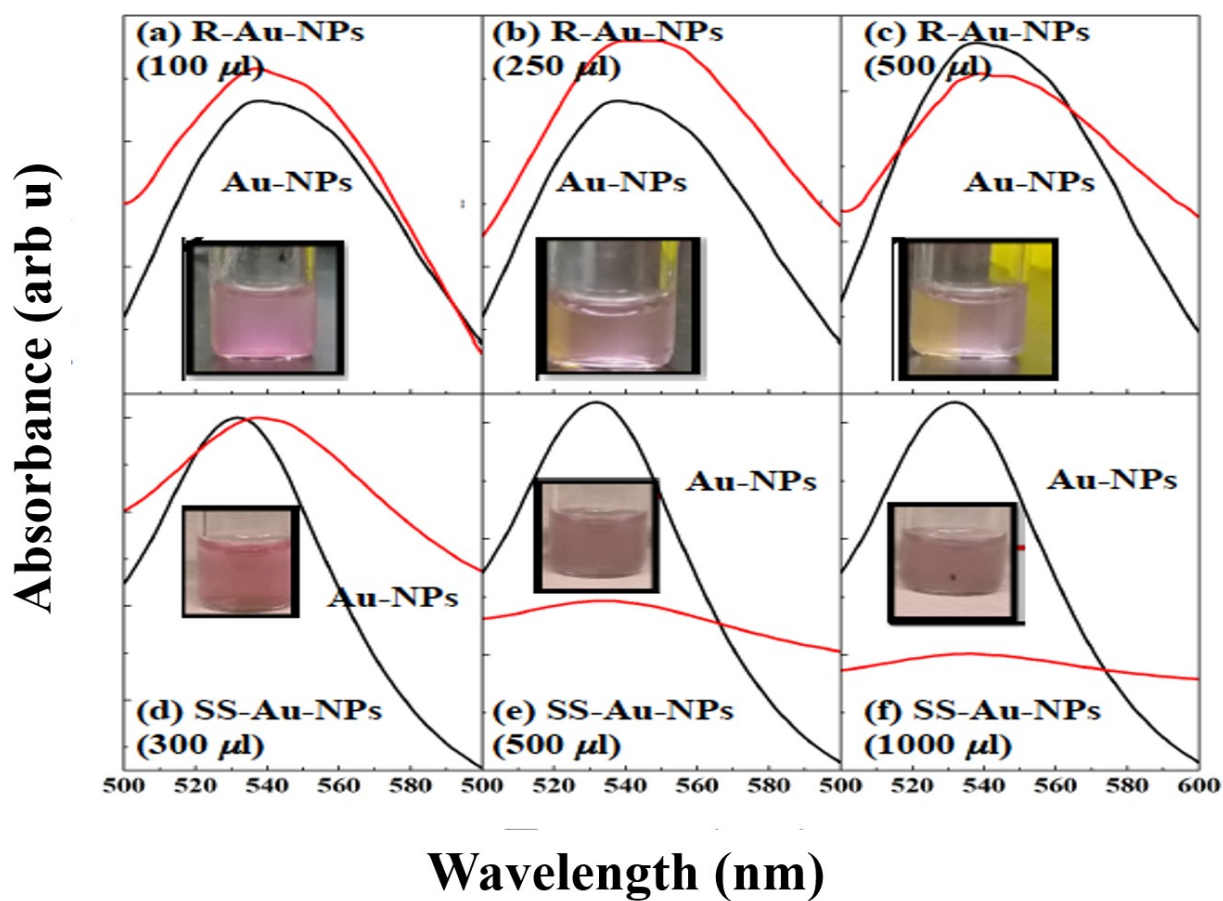


Fig. S2. UV-/Vis spectra of three different volumes of Raman reporter (R): **a** (100 μL), **b** (250 μL), **c** (500 μL); UV-VIS spectra of different quantities of sodium silicate (SS), **d** (300 μL), **e** (500 μL), **f** (1000 μL).

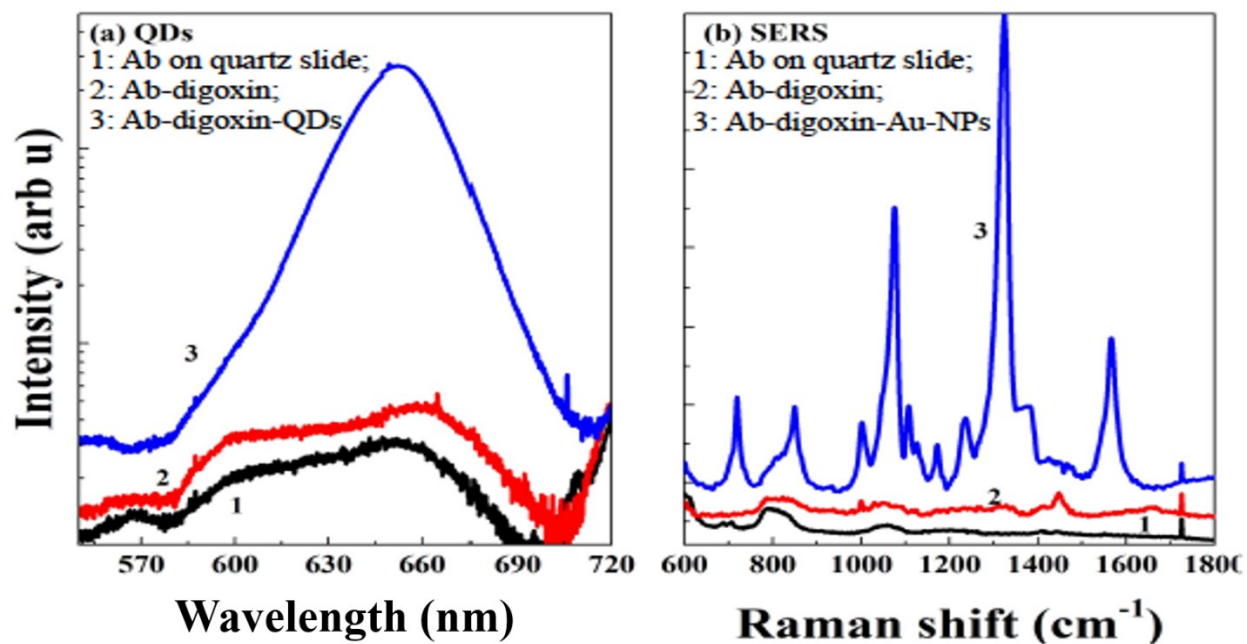


Fig. S3. On Chip Binding: PL and SERS spectra taken at each step of fabrication of ELISA chips on conjugation with digoxin drug with **a** QDs and **b** Au-NPs during various stages (spectrum 1: antibody on quartz slide; 2: Antibody conjugated to digoxin; and 3: Antibody attached to digoxin conjugated QDs (Au-NPs)).

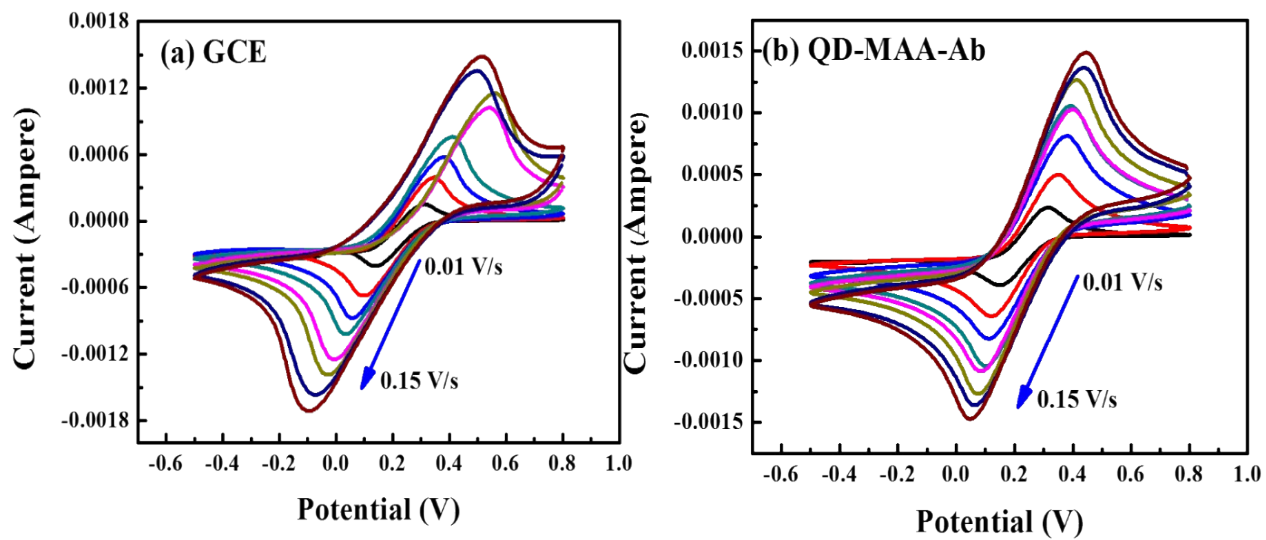


Fig. S4. CV graph showing variation in oxidation/reduction potentials and currents on varying the scan rate of **a** bare GC electrode **b** QD-MAA-Ab coated GC electrode.