Electronic Supplementary Material

Direct electrochemistry and electrocatalysis of hemoglobin on a glassy carbon electrode modified with poly(ethylene glycol diglycidyl ether) and gold nanoparticles on a quaternized cellulose support. A sensor for hydrogen peroxide and nitric oxide

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Fig. S1 UV–vis spectra of (a)Au NPs, (b) Au@Qc solution, (c)1.0 mg mL\textsuperscript{-1} Hb solution, (d) dry Hb(1.0 mg mL\textsuperscript{-1}) film, (e) dry Au@Qc/PEGDGE film, (f) dry Au@Qc/PEGDGE/Hb film.
Fig. S2 Cyclic voltammograms of Au@Qc/PEGDGE/Hb film modified GCE in phosphate buffer solution (pH 7.0) at different scan rates of (a) 0.025, (b) 0.05, (c) 0.075, (d) 0.1, (e) 0.125, (f) 0.15, (g) 0.175, (h) 0.2, (i) 0.225, (j) 0.25, (k) 0.275, (l) 0.3 V s$^{-1}$. Inset: plot of the peak current against the scan rate.

Fig. S3 Cyclic voltammograms of the Au@Qc/PEGDGE/Hb film modified GC electrode in 0.1 mol L$^{-1}$ PBS with different pH values (a→h: 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5).