**Sensitive Electrochemical Determination of Hydrogen Peroxide using Copper Nanoparticles in a Polyaniline Film on a Glassy Carbon Electrode**

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**SUPPLEMENTARY MATERIAL**

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Figure S1. Fourier transform infrared spectra of polyaniline and polyaniline/Cu particles

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Figure S2. Cyclic voltammograms and plot of peak current versus scan rate.of H2O2 (0.1 M ) on polyaniline electrode (A, B) in buffer (pH 6.5) and polyaniline/Cu electrode (C, D) in H2O2 solution at scan rates of 10, 50, 100, 150, 200, 250 and 300 mV/s, respectively.



Figure S3. Influence of the potential co-existing species on polyaniline/Cu electrode.

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Figure S4. Amperometric responses of polyaniline/Cu electrode for detecting H2O2 in tap water samples