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**Title:** Electrochemical detection of Cr(VI) and Cr(III) ions present in aqueous solutions using bio-modified carbon paste electrode: A voltammetric study

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**SUPPLEMENTARY MATERIAL**

***E:\Sphingopyxis Electroanalysis\Tiff Plots for paper\Linear scan rate-Cr3.tifE:\Sphingopyxis Electroanalysis\Tiff Plots for paper\Linear scan rate-Cr6.tif*Figure S1**

**(b)**

**(a)**

Figure S1. Linear fit plots of peak current as a function of scan rate for the detection of: (a) Cr(VI) and (b) Cr(III) ions

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Figure S2. Cyclic voltammetric detection of Cr(VI) using Sp-CPE as a function Cr(VI) concentration at: (a) pH 1; (b) pH 2 and (c) pH 3

Figure S3

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Figure S3. Cyclic voltammetric detection of Cr(III) using Sp-CPE as a function Cr(III) concentration at: (a) at pH 2; (b) pH 3 and (c) pH 4

E:\Sphingopyxis Electroanalysis\Tiff Plots for paper\Cr6 deposition.tifFigure S4

**(a)**

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**(b)**

Figure S4. Effect of pre-concentration time on the cathodic peak current for (a) Cr(VI) ions and (b) Cr(III) ions

Figure S5

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**(a)**

E:\Sphingopyxis Electroanalysis\Tiff Plots for paper\Supplementary-Cr(III) standard.tif

**(b)**

Figure S5. Calibration plot obtained using voltammetry using Sp-CPE for: (a) Cr(VI) ions and (b) Cr(III) ions