Supporting Information for

Reduced Graphene Oxides: Influence of the Reduction Method on the Electrocatalytic Effect towards Nucleic Acid Oxidation

Daniela F. Báez 1,2, Helena Pardo 3, Ignacio Laborda 3, José F. Marco 4, Claudia Yáñez 1 and Soledad Bollo 1,2,*

- ¹ Centro de Investigación de Procesos Redox, CiPRex,Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Sergio Livingstone 1007. Independencia, Santiago 8380492, Chile; d.baez@ciq.uchile.cl (D.F.B.); cyanez@ciq.uchile.cl (C.Y.)
- ² Advanced Center for Chronic D (ACCDiS), Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Sergio Livingstone 1007.
 Independencia, Santiago 8380492, Chile
- ³ Facultad de Química, Universidad de la República de Uruguay, Avenida General Flores 2124, Montevideo 11800, Uruguay; hpardo@fq.edu.uy (H.P.); ilaborda@fq.edu.uy (I.L.)
- ⁴ Instituto de Química Física Rocasolano, CSIC, Madrid 28006, Spain; jfmarco@iqfr.csic.es (J.F.M)
- * Correspondence: sbollo@ciq.uchile.cl

Keywords: graphene; reduced graphene oxide; glassy carbon electrode; SECM; DNA oxidation

Conflicts of Interest: The authors declare no conflict of interest.

Electronic Supplementary Information. Báez et al

Figure 1S: X-ray photoelectron spectroscopy (XPS). Wide scan XPS spectra recorded from (**a**) Graphite; (**b**) GO; (**c**) CRGO; (**d**) hTRGO; (**e**) ERGO and (**f**) TRGO.



Figure 2S: Transmission electron microscopy, TEM images of (a) GO; (b) CRGO; (c) hTRGO; (d) ERGO and (e) TRGO.



TEM images were obtained with a JEOL JEM-1010 microscope, operating at 100 kV. The RGOs were dispersed in ethanol, sonicated for 30 minutes and deposited on a carbon/copper 200-mesh grid.





XRD diffractograms were performed using a Rigaku Ultima IV diffractometer using Cu*K* α radiation (λ = 1.5418 Å) in the 2 θ = 5- 60° range