



## Supplementary Information

# Highly Sensitive Electrochemical Biosensor Using Folic Acid-Modified Reduced Graphene Oxide for the Detection of Cancer Biomarker

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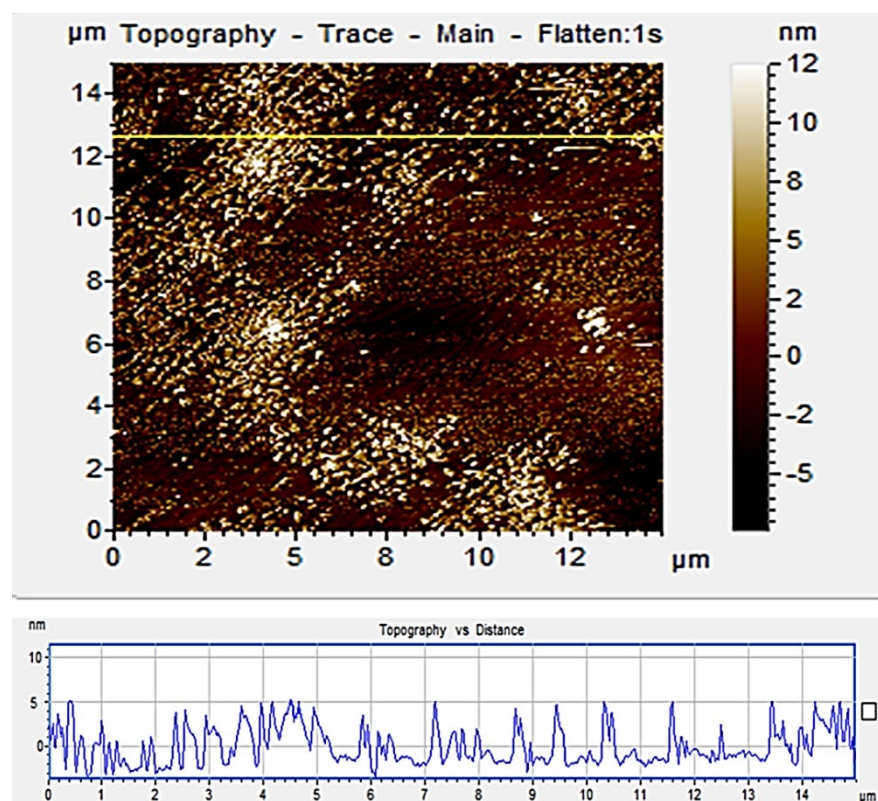
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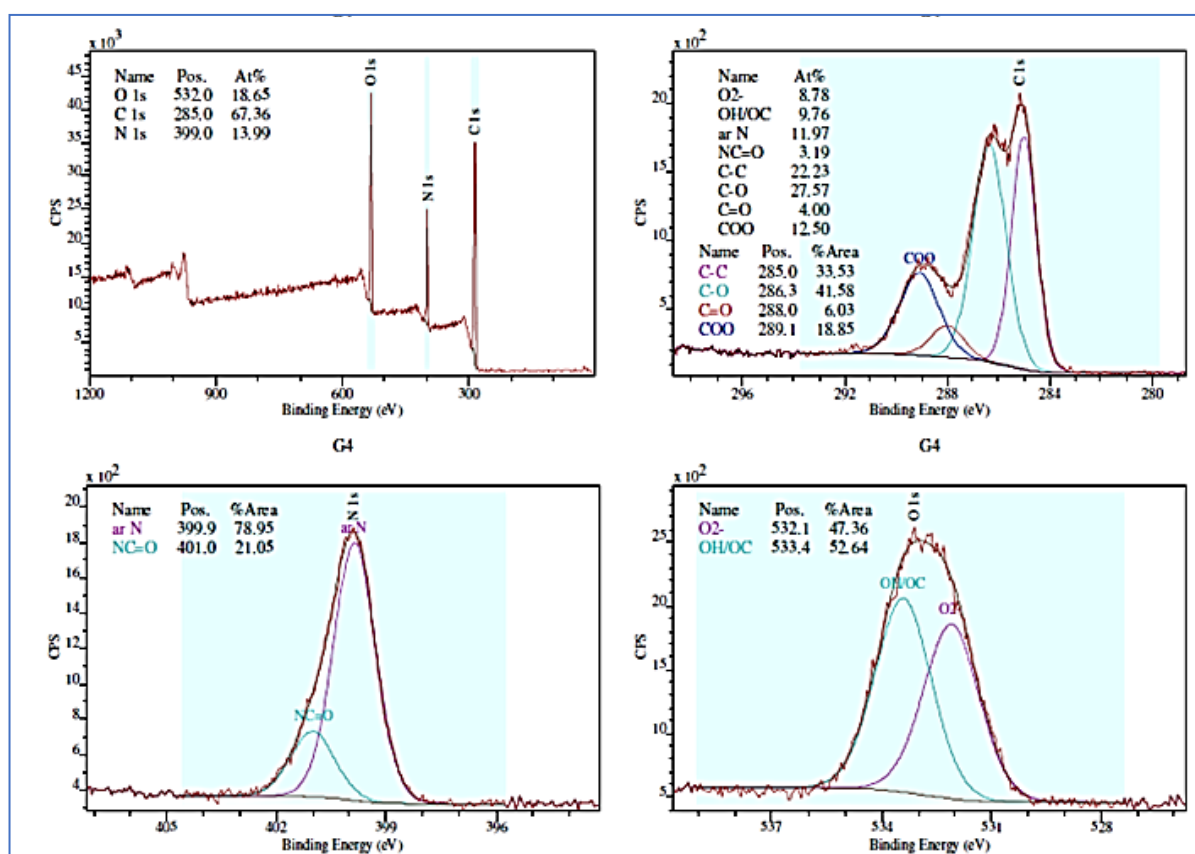
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**Figure S1.** AFM image of RGO-FA and the height profile at cross-section with average thickness as 5 nm.



**Figure S2.** XPS analysis of RGO-FA, displaying various bonds supporting the conjugation of RGO and FA and elemental analysis as an atomic percentage.

**Table S1.** FTIR peaks of FA and its corresponding functional groups [1]

Wavenumber (cm <sup>-1</sup> )	Functional group
1485–1519	Phenyl and Pterin ring
1604	NH bending
1619	C=C aromatic
1639	C=N
1650	C=O amide
1693	C=O carboxylic
3100–3500	OH carboxylic functional group of the glutamic acid moiety

#### Reference

1. Mohammed, E.M.K.A.D. Qualitative and quantitative determination of folic acid in tablets by FTIR spectroscopy. *Int. J. Adv. Pharm. Biol. Chem.* **2014**, *3*, 773–780.