Electronic Supplementary Material (ESI) for Nanoscale Advances. This journal is © The Royal Society of Chemistry 2021

Supplementary Information

Novel Application of Bipolar Electrochemical Exfoliated Graphene for Highly Sensitive Disposable Label-Free Cancer Biomarker Aptasensors

Shahrzad Forouzanfar^a, Iman Khakpour^b, Fahmida Alam^a, Nezih Pala^a, Chunlei Wang^{b,c*}

^aDepartment of Electrical and Computer Engineering, Florida International University ^bDeprtment of Mechanical and Materials Engineering, Florida International University ^cCenter for Study of Matter at Extreme Conditions, Florida International University *Corresponding Author:wangc@fiu.edu

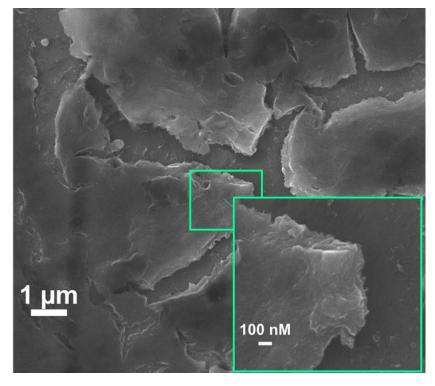


Figure S1 SEM images of GO deposited on stainless steel electrode (inset image is a magnified image of designated area)

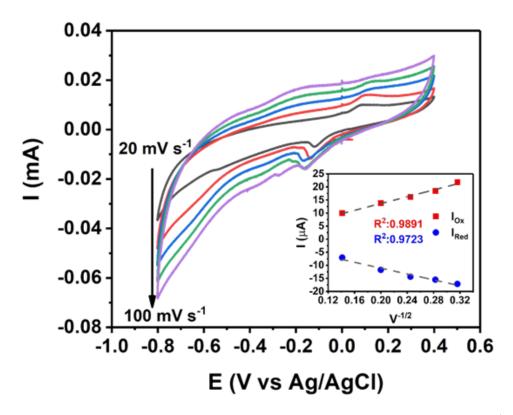


Figure S2 The CV plots of the SS/GO electrode at different scan rates at the range of 10–100 mV s⁻¹ and the calibration curves of reduction and oxidation peak current versus the square root of scan rates (inset plots).

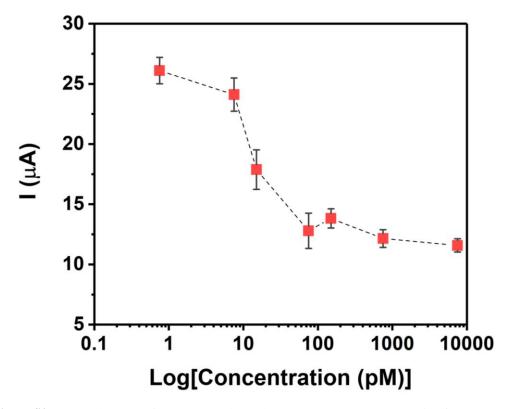


Figure S3 DPV peak current for SS/GO_{Apt} electrode response to PDGF-BB ranging from 0–1 nM.