SUPPLEMENTARY INFORMATION

Rapid and highly sensitive strain-effect graphene-based bio-sensor for detection of stroke and cancer bio-markers

Mein Jin Tan\textsuperscript{a}, Han-Chi Pan\textsuperscript{b}, Duo Lin\textsuperscript{a,b}, Chinh-Yu Tseng\textsuperscript{d}, Qi Feng Lim\textsuperscript{c}, Mein Jin Tan\textsuperscript{c,*}, Kien Voon Kong\textsuperscript{d,*}

\textsuperscript{a}College of Integrated Traditional Chinese and Western Medicine, Fujian University of Traditional Chinese Medicine, Fuzhou, China,

\textsuperscript{b}Fujian Normal University, Key Laboratory of OptoElectronic Science and Technology for Medicine, Ministry of Education, Fujian Provincial Key Laboratory for Photonics Technology, Fuzhou, China

\textsuperscript{c}Institute of Material Research and Engineering, A*STAR, Singapore,

\textsuperscript{d}Department of Chemistry, National Taiwan University, Taiwan.

*e-mail: Email: joshtan83@gmail.com, and kvkong@ntu.edu.tw
Figure S1. Height measurement of RuO$_2$ on MG by AFM.