Supporting Information

Detection of Biomarkers with Graphene Nanoplatelets and Nanoribbons

Chee Shan Lim, Chun Kiang Chua, and Martin Pumera*

Table S-1. Peak potentials and detection limits of biomarkers at various surfaces as reported in literature.

Analyte	Electrode Surface	Peak Potential /V	Detection Limit /μM	Reference
Uric Acid	Gold	+0.45	-	Dey, R. S.; Gupta, S.; Paira, R.; Chen, S-M.; Raj, R. *J. Solid State Electrochem.* **2012**, *16*, 173.
	BPPG modified with 1,4-Naphthoquinone/MWCNT	+0.27	0.1	Oliveira, A. X.; Silva, S. M.; Leite, F. R. F.; Kubota, L. T.; Damos, F. S.; Cassia Silva Luz, R. *Electroanalysis.* **2013**, *25*, 723.
Ascorbic Acid	Functionalised Gold	+0.17	2.4	Zhang, L.; Jia, J.; Zou, X.; Dong, S. *Electroanalysis,* **2004**, *16*, 1413.
	Gold	+0.51	-	Zhang, L.; Jia, J.; Zou, X.; Dong, S. *Electroanalysis,* **2004**, *16*, 1413.
	BPPG	+1.06	-	Hadi, M.; Rouhollahi, A.; Yousefi, M. *Electroanalysis*, **2011**, *23*, 1497.
	EPPG	+0.24	-	Hadi, M.;

				Rouhollahi, A.; Yousefi, M. *Electroanalysis*, **2011**, *23*, 1497.
	Pyrolytic carbon film electrodes	+0.18	0.12	Hadi, M.; Rouhollahi, A.; Yousefi, M. *Electroanalysis*, **2011**, *23*, 1497.
Dopamine	Functionalised Gold	+0.24	1.2	Zhang, L.; Jia, J.; Zou, X.; Dong, S. *Electroanalysis,* **2004**, *16*, 1413.
	Gold	+0.46	-	Zhang, L.; Jia, J.; Zou, X.; Dong, S. *Electroanalysis,* **2004**, *16*, 1413.
	Pyrolytic carbon film electrodes	+0.02 to +0.27	2.3	Keeley, G. P.; McEvoy, N.; Nolan, H.; Kumar, S.; Rezvani, E.; Holzinger, M.; Cosnier, S.; Duesberg, G. S. *Anal. Methods.* **2012**, *4*, 2048.
NADH	BPPG	+0.59	-	Saleh, F. S.; Rahman, M. R.; Okajima, T.; Mao, L.; Ohsaka, T. *Bioelectrochemistry*, **2011**, *80*, 121.
	Mesoporous Carbon Modified Electrode	+0.3 (vs. SCE)	1.0	Wang, Y.; You, C.; Zhang, S.; Kong, J.; Marty, J-L.; Zhao, D.; Liu, B. Microchimica Acta. 2012, 167, 75.
	CNT	+0.38	-	Wooten, M.; Gorski, W. *Anal. Chem.* **2010**, *82*, 1299.
Guanine	BPPG	+0.71 (vs. SCE)	-	Li, Q.; Batchelor-McAuley, C.; Compton, R. G. *J. Phys. Chem. B.* **2010**, *114*, 7423.

	HOPG	+0.73 (vs. SCE)	-	Li, Q.; Batchelor-McAuley, C.; Compton, R. G. *J. Phys. Chem. B.* **2010**, *114*, 7423.
	GCE/MWCNT-poly(new fuchsin) modified electrode	+0.65	18.2	Tang, C.; Yogeswaran, U.; Chen, S-M. *Anal. Chim. Acta.* **2009**, *636*, 19.
	Graphitized mesoporous carbon modified glassy carbon electrode	+0.65	0.76	Thangaraj, R.; Kumar, A. S. *J. Solid. State. Electrochem.* **2013**, *17*, 583.
Adenine	BPPG	+1.03 (vs. SCE)	-	Randviir, E. P.; Banks, C. E. *RSC Adv*. **2012**, *2*, 5800.
	EPPG	+0.96 (vs. SCE)	-	Randviir, E. P.; Banks, C. E. *RSC Adv*. **2012**, *2*, 5800.
	GCE/MWCNT-poly(new fuchsin) modified electrode	+1.04	8.60	Tang, C.; Yogeswaran, U.; Chen, S-M. *Anal. Chim. Acta.* **2009**, *636*, 19.
	Graphitized mesoporous carbon modified glassy carbon electrode	+0.85	0.63	Thangaraj, R.; Kumar, A. S. *J. Solid. State. Electrochem.* **2013**, *17*, 583.