

## Author's Accepted Manuscript

Silver nanoflower–reduced graphene oxide composite based micro-disk electrode for insulin detection in serum

Ajay Kumar Yagati, Yonghyun Choi, Jinsoo Park, Jeong-Woo Choi, Hee-Sook Jun, Sungbo Cho



PII: S0956-5663(16)30099-9  
DOI: <http://dx.doi.org/10.1016/j.bios.2016.01.086>  
Reference: BIOS8426

To appear in: *Biosensors and Bioelectronic*

Received date: 19 November 2015  
Revised date: 29 January 2016  
Accepted date: 30 January 2016

Cite this article as: Ajay Kumar Yagati, Yonghyun Choi, Jinsoo Park, Jeong-Woo Choi, Hee-Sook Jun and Sungbo Cho, Silver nanoflower–reduced graphene oxide composite based micro-disk electrode for insulin detection in serum *Biosensors and Bioelectronic*, <http://dx.doi.org/10.1016/j.bios.2016.01.086>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and a review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

# Silver nanoflower–reduced graphene oxide composite based micro-disk electrode for insulin detection in serum

Ajay Kumar Yagati<sup>a</sup>, Yonghyun Choi<sup>a</sup>, Jinsoo Park<sup>a</sup>, Jeong-Woo Choi<sup>b</sup>, Hee-Sook Jun<sup>c</sup>, Sungbo Cho<sup>a,\*</sup>

<sup>a</sup>*Department of Biomedical Engineering, Gachon University, 191 Hambakmoero, Yeonsu-gu, Incheon, 21936, Republic of Korea*

<sup>b</sup>*Department of Chemical and Biomolecular Engineering, Sogang University, 35 Baekbeom-ro (Sinsu-dong), Mapo-gu, Seoul, 04107, Republic of Korea*

<sup>c</sup>*Lee Gil Ya Cancer and Diabetes Institute, Gachon University, 155 Get-Pearl-ro, Yeonsu-gu, Incheon, 21999, Republic of Korea*

## \*Corresponding Author

Prof. Sungbo Cho  
Department of Biomedical Engineering  
Gachon University  
Incheon, 21936, Republic of Korea  
Tel.: +82 32 820 4433; fax: +82 32 820 4449  
E-mail: [sbcho@gachon.ac.kr](mailto:sbcho@gachon.ac.kr) (S. Cho)

## Abstract

Sensitive and selective determination of protein biomarkers remains a significant challenge due to the existence of various biomarkers in human body at a low concentration level. Therefore,

Download English Version:

<https://daneshyari.com/en/article/7230776>

Download Persian Version:

<https://daneshyari.com/article/7230776>

[Daneshyari.com](https://daneshyari.com)