

Author's Accepted Manuscript

High-performance nanogap electrode-based impedimetric sensor for direct DNA assays

Hyunjung Lee, Joo Oak Keem, Hyunmin Cho, Jong Min Choi, Won Seok Chung, Dae-Young Jeon, Dong Su Lee, Yong-Beom Shin



PII: S0956-5663(18)30550-5
DOI: <https://doi.org/10.1016/j.bios.2018.07.050>
Reference: BIOS10639

To appear in: *Biosensors and Bioelectronic*

Received date: 16 May 2018
Revised date: 23 July 2018
Accepted date: 25 July 2018

Cite this article as: Hyunjung Lee, Joo Oak Keem, Hyunmin Cho, Jong Min Choi, Won Seok Chung, Dae-Young Jeon, Dong Su Lee and Yong-Beom Shin, High-performance nanogap electrode-based impedimetric sensor for direct DNA assays, *Biosensors and Bioelectronic*, <https://doi.org/10.1016/j.bios.2018.07.050>

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 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.

High-performance nanogap electrode-based impedimetric sensor for direct DNA assays

Hyunjung Lee^{a*}, Joo Oak Keem^a, Hyunmin Cho^a, Jong Min Choi^a, Won Seok Chung^a, Dae-Young Jeon^b, Dong Su Lee^b, Yong-Beom Shin^{a,c*}

^a*BioNano Health Guard Research Center (H-GUARD), Daejeon 34141, Republic of Korea*

^b*Institute of Advanced Composite Materials, Korea Institute of Science and Technology, Jeonbuk 55324, Republic of Korea*

^c*Hazards Monitoring Bionano Research Center, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Daejeon 34141, Republic of Korea*

hjunglee@kribb.re.kr

ybshin@kribb.re.kr

Abstract

The rapid and sensitive detection of pathogen DNA (Deoxyribonucleic acid) would be essential for diagnosis and appropriate antibiotic treatment time. Herein, we report a novel

Download English Version:

<https://daneshyari.com/en/article/7228932>

Download Persian Version:

<https://daneshyari.com/article/7228932>

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