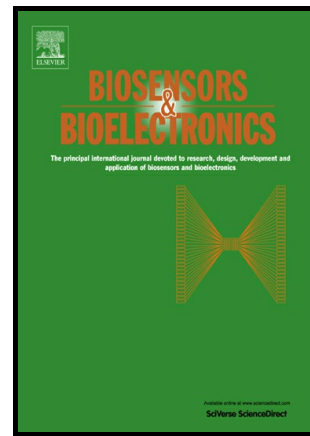


## Author's Accepted Manuscript

Versatility of a localized surface plasmon resonance-based gold nanoparticle-alloyed quantum dot nanobiosensor for immunofluorescence detection of viruses

Kenshin Takemura, Oluwasesan Adegoke, Naoto Takahashi, Tatsuya Kato, Tian-Cheng Li, Noritoshi Kitamoto, Tomoyuki Tanaka, Tetsuro Suzuki, Enoch Y. Park



PII: S0956-5663(16)31063-6  
DOI: <http://dx.doi.org/10.1016/j.bios.2016.10.045>  
Reference: BIOS9267

To appear in: *Biosensors and Bioelectronic*

Received date: 11 August 2016  
Revised date: 8 October 2016  
Accepted date: 19 October 2016

Cite this article as: Kenshin Takemura, Oluwasesan Adegoke, Naoto Takahashi, Tatsuya Kato, Tian-Cheng Li, Noritoshi Kitamoto, Tomoyuki Tanaka, Tetsuro Suzuki and Enoch Y. Park, Versatility of a localized surface plasmon resonance-based gold nanoparticle-alloyed quantum dot nanobiosensor for immunofluorescence detection of viruses, *Biosensors and Bioelectronic* <http://dx.doi.org/10.1016/j.bios.2016.10.045>

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

# Versatility of a localized surface plasmon resonance-based gold nanoparticle-alloyed quantum dot nanobiosensor for immunofluorescence detection of viruses

Kenshin Takemura<sup>a</sup>, Oluwasesan Adegoke<sup>b</sup>, Naoto Takahashi<sup>a</sup>, Tatsuya Kato<sup>b,c</sup>, Tian-Cheng Li<sup>d</sup>, Noritoshi Kitamoto<sup>e</sup>, Tomoyuki Tanaka<sup>f</sup>, Tetsuro Suzuki<sup>g</sup>, Enoch Y. Park<sup>b,c\*</sup>

<sup>a</sup>Laboratory of Biotechnology, Department of Agriculture, Graduate School of Integrated Science and Technology, Shizuoka University, 836 Ohya, Suruga-ku, Shizuoka 422-8529, Japan

<sup>b</sup>Laboratory of Biotechnology, Research Institute of Green Science and Technology, Shizuoka University, 836 Ohya, Suruga-ku, Shizuoka 422-8529, Japan

<sup>c</sup>College of Agriculture, Academic Institute, Shizuoka University, 836 Ohya, Suruga-ku, Shizuoka 422-8529, Japan

<sup>d</sup>Department of Virology II, National Institute of Infectious Diseases, Gakuen 4-7-1, Musashi-Murayama, Tokyo 208-0011, Japan

<sup>e</sup>School of Human Science and Environment, University of Hyogo, 1-1-12 Shinzaike-Honcho, Himeji, Hyogo 670-0092, Japan

<sup>f</sup>Hidaka General Hospital, Gobo, Wakayama 644-0002, Japan

<sup>g</sup>Department of Infectious Diseases, Hamamatsu University School of Medicine, 1-20-1 Higashi-ku, Handa-yama, Hamamatsu 431-3192, Japan

kenpi901@yahoo.co.jp (KT)  
adegoke.sesan@mailbox.co.za (OA)  
pakkun0449@yahoo.co.jp (TN)  
kato.tatsuya@shizuoka.ac.jp (TK)  
litc@nih.go.jp (TCL)  
kitamoto@shse.u-hyogo.ac.jp (NK)  
moqui-tom@maia.eonet.ne.jp (TT)  
tesuzuki@hama-med.ac.jp (TS)  
park.enoch@shizuoka.ac.jp (EYP)

\* Correspondence to. Research Institute of Green Science and Technology, Shizuoka University, 836 Ohya Suruga-ku, Shizuoka, 422-8529, Japan. Tel. & fax: +81 54 238 4887. park.enoch@shizuoka.ac.jp (EYP)

## Abstract

Download English Version:

<https://daneshyari.com/en/article/5031467>

Download Persian Version:

<https://daneshyari.com/article/5031467>

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