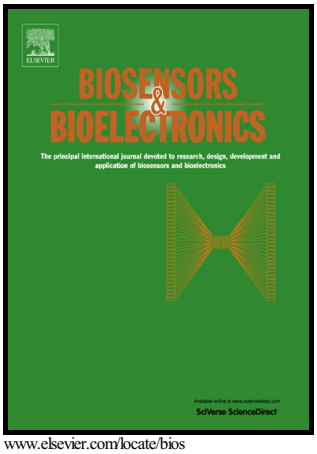

www.elsevier.com/locate/bios

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 fo immunofluorescence detection of viruses, *Biosensors and Bioelectronic* http://dx.doi.org/10.1016/j.bios.2016.10.045

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

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

[a]*Laboratory of Biotechnology, Department of Agriculture, Graduate School of Integrated Science and Technology, Shizuoka University, 836 Ohya, Suruga-ku, Shizuoka 422-8529, Japan*

[b]*Laboratory of Biotechnology, Research Institute of Green Science and Technology, Shizuoka University, 836 Ohya, Suruga-ku, Shizuoka 422-8529, Japan*

[c]*College of Agriculture, Academic Institute, Shizuoka University, 836 Ohya, Suruga-ku, Shizuoka 422-8529, Japan*

[d]*Department of Virology II, National Institute of Infectious Diseases, Gakuen 4-7-1, Musashi-Murayama, Tokyo 208-0011, Japan*

[e]*School of Human Science and Environment, University of Hyogo, 1–1–12 Shinzaike-Honcho, Himeji, Hyogo 670–0092, Japan*

[f]*Hidaka General Hospital, Gobo, Wakayama 644-0002, Japan*

[g]*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