### **Accepted Manuscript**

Title: Towards the development of a sensitive and selective electrochemical aptamer-based ampicillin sensor

Authors: Zhi-gang Yu, Arin L. Sutlief, Rebecca Y. Lai

PII: S0925-4005(17)32325-0

DOI: https://doi.org/10.1016/j.snb.2017.11.193

Reference: SNB 23687

To appear in: Sensors and Actuators B

Received date: 6-7-2017 Revised date: 16-11-2017 Accepted date: 30-11-2017



Please cite this article as: Zhi-gang Yu, Arin L.Sutlief, Rebecca Y.Lai, Towards the development of a sensitive and selective electrochemical aptamer-based ampicillin sensor, Sensors and Actuators B: Chemical https://doi.org/10.1016/j.snb.2017.11.193

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 proof before it is published in its final 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.

## ACCEPTED MANUSCRIPT

SENSORS AND ACTUATORS B 000 (2017) 000-000



Contents lists available at SceinceDirect

#### Sensors and Actuators B: Chemical

journal homepage: www.elsevier.com/locate/snb



Peer review under responsibility of xxxxx.



Hosting by Elsevier

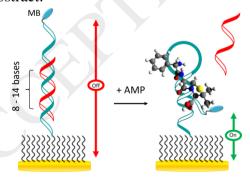
xxxx-xxxx/\$ – see front matter © 2017 xxxxxxxxx. Hosting by Elsevier B.V. All rights reserved. http://dx.doi.org/10.1016/j.snb.2017.00.000

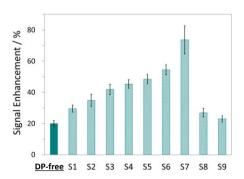
# Towards the development of a sensitive and selective electrochemical aptamer-based ampicillin sensor

Zhi-gang Yu<sup>a,b</sup>, Arin L. Sutlief, Rebecca Y. Lai<sup>b\*</sup>

<sup>a</sup>College of Chemistry and Chemical Engineering, Yangtze Normal University, Fuling, Chongqing 400715, China

#### **Graphical Abstract:**





#### **Highlights**

• A systematic approach was used to design a "signal-on" E-AB ampicillin sensor.

<sup>&</sup>lt;sup>b</sup>Department of Chemistry, University of Nebraska-Lincoln, Lincoln, Nebraska 68588-0304, United States

<sup>\*</sup> Corresponding author. Tel.: +1-402-472-5340; fax: +1-402-472--0000 E-mail address: rlai<br/>2@unl.edu

#### Download English Version:

# https://daneshyari.com/en/article/7141402

Download Persian Version:

https://daneshyari.com/article/7141402

<u>Daneshyari.com</u>