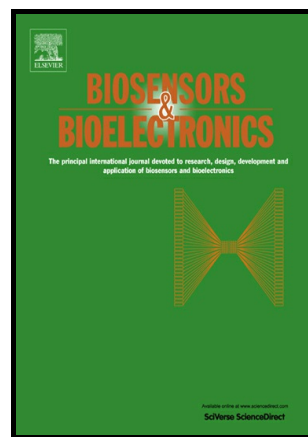


Conducting polymer-silk biocomposites for flexible and biodegradable electrochemical sensors

Ramendra K. Pal, Ahmed A. Farghaly, Congzhou Wang, Maryanne M. Collinson, Subhas C. Kundu, Vamsi K. Yadavalli



PII: S0956-5663(16)30199-3  
DOI: <http://dx.doi.org/10.1016/j.bios.2016.03.010>  
Reference: BIOS8521

To appear in: *Biosensors and Bioelectronic*

Received date: 16 December 2015  
Revised date: 25 February 2016  
Accepted date: 7 March 2016

Cite this article as: Ramendra K. Pal, Ahmed A. Farghaly, Congzhou Wang, Maryanne M. Collinson, Subhas C. Kundu and Vamsi K. Yadavalli, Conducting polymer-silk biocomposites for flexible and biodegradable electrochemical sensors, *Biosensors and Bioelectronic* <http://dx.doi.org/10.1016/j.bios.2016.03.010>

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.

## Conducting polymer-silk biocomposites for flexible and biodegradable electrochemical sensors

*Ramendra K. Pal*<sup>1</sup>, *Ahmed A. Farghaly*<sup>2</sup>, *Congzhou Wang*<sup>1</sup>, *Maryanne M. Collinson*<sup>2</sup>,  
*Subhas C. Kundu*<sup>3</sup>, *Vamsi K. Yadavalli*<sup>1,\*</sup>

<sup>1</sup> Department of Chemical and Life Science Engineering, <sup>2</sup> Department of Chemistry  
Virginia Commonwealth University  
601 and 1001, W Main Street, Richmond VA, USA 23284

<sup>3</sup> Dr. S.C. Kundu  
Department of Biotechnology  
Indian Institute of Technology Kharagpur, West Bengal – 721302, India 721302

\* Corresponding author: Dr. Vamsi K. Yadavalli

E-mail: vyadavalli@vcu.edu

**Keywords:** conducting polymer, silk protein, photolithography, biosensor, flexible

Download English Version:

<https://daneshyari.com/en/article/7230588>

Download Persian Version:

<https://daneshyari.com/article/7230588>

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