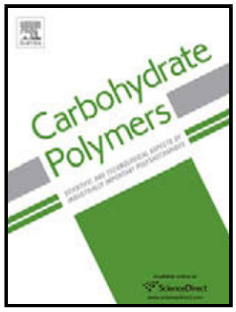

Title: Electrodeposition of a Magnetic and Redox-Active Chitosan Film for Capturing and Sensing Metabolic Active Bacteria

Authors: Ying Li, Yi Liu, Eunkyoung Kim, Yingying Song, Chen-Yu Tsao, Zi Teng, Tieren Gao, Lei Mei, William E. Bentley, Gregory F. Payne, Qin Wang

PII: S0144-8617(18)30490-9
DOI: https://doi.org/10.1016/j.carbpol.2018.04.096
Reference: CARP 13550

To appear in:

Received date: 4-12-2017
Revised date: 4-4-2018
Accepted date: 25-4-2018

Please cite this article as: Li, Ying., Liu, Yi., Kim, Eunkyoung., Song, Yingying., Tsao, Chen-Yu., Teng, Zi., Gao, Tieren., Mei, Lei., Bentley, William E., Payne, Gregory F., & Wang, Qin., Electrodeposition of a Magnetic and Redox-Active Chitosan Film for Capturing and Sensing Metabolic Active Bacteria.*Carbohydrate Polymers* https://doi.org/10.1016/j.carbpol.2018.04.096

Electrodeposition of a Magnetic and Redox-Active Chitosan Film for Capturing and Sensing Metabolic Active Bacteria

Ying Li[a], *Yi Liu*[b,c], *Eunkyoung Kim*[b,c], *Yingying Song*[a], *Chen-Yu Tsao*[b,c], *Zi Teng*[a], *Tieren Gao*[d], *Lei Mei*[a], *William E. Bentley*[b,c] , *Gregory F. Payne*[b,c], *Qin Wang*[a,*]

[a] Department of Nutrition and Food Science, University of Maryland, College Park, Maryland 20742, USA.

[b] Fischell Department of Bioengineering, University of Maryland, College Park, Maryland 20742, USA.

[c] Institute for Bioscience & Biotechnology Research, University of Maryland, College Park, Maryland 20742, USA.

[d] Department of Materials Science and Engineering, University of Maryland, College Park, Maryland 20742, USA.

[*]Corresponding Author. E-mails: wangqin@umd.edu; Phone: 1-(301) 405-8421; Fax: 1-(301)-314-3313.

Graphical Abstract