

## Accepted Manuscript

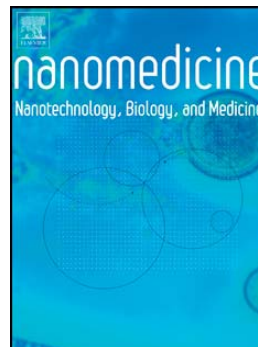
A new strategy for battling bacterial resistance: turning potent, non-selective and potentially non-resistance-inducing biocides into selective ones

Sadegh Ghanbar, Miral Fumakia M.Sc, Emmanuel A. Ho Ph.D., Song Liu Ph.D.

PII: S1549-9634(17)30210-1  
DOI: doi: [10.1016/j.nano.2017.11.014](https://doi.org/10.1016/j.nano.2017.11.014)  
Reference: NANO 1699

To appear in: *Nanomedicine: Nanotechnology, Biology, and Medicine*

Received date: 24 July 2017  
Revised date: 6 October 2017  
Accepted date: 14 November 2017



Please cite this article as: Ghanbar Sadegh, Fumakia Miral, Ho Emmanuel A., Liu Song, A new strategy for battling bacterial resistance: turning potent, non-selective and potentially non-resistance-inducing biocides into selective ones, *Nanomedicine: Nanotechnology, Biology, and Medicine* (2017), doi: [10.1016/j.nano.2017.11.014](https://doi.org/10.1016/j.nano.2017.11.014)

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.

## **A new strategy for battling bacterial resistance: turning potent, non-selective and potentially non-resistance-inducing biocides into selective ones**

*Sadegh Ghanbar,<sup>†</sup> Miral Fumakia,<sup>‡</sup> Emmanuel A. Ho,<sup>‡</sup> ¶ and Song Liu<sup>\*†,§</sup>*

<sup>†</sup> Department of Chemistry, Faculty of Science; University of Manitoba, Winnipeg, Canada

<sup>‡</sup> Laboratory for Drug Delivery and Biomaterials, College of Pharmacy, Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada

¶ School of Pharmacy, Faculty of Science, University of Waterloo, Waterloo, Canada

§ Department of Biosystems Engineering, Faculty of Agricultural and Food Sciences, University of Manitoba, Winnipeg, Canada

\*Corresponding author: Department of Biosystems, Faculty of Agricultural and Food Sciences, E2-376 EITC Bldg, 75A Chancellor's Circle, Winnipeg, MB, Canada, R3T 2N2

Tel: (204) 474-9616 Fax: (204) 474-7512

E-mail: [Song.Liu@umanitoba.ca](mailto:Song.Liu@umanitoba.ca)

### **All organizations that funded the research:**

This project was supported by Collaborative Health Research Project (CHRP) operating grant (Grant no. CHRP 413713-2012), and the Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery grant (Grant no. RGPIN/04922-2014) awarded to Dr. Liu. This study was funded in part by a University Research Grants Program (URGP) and the Leslie F. Bugey Professorship awarded to Dr. Emmanuel Ho. Ms. Miral Fumakia was supported by a Manitoba Graduate Scholarship from the Province of Manitoba.

Poster presentation of part of this work was made in the 2<sup>nd</sup> International Symposium on Alternatives to Antibiotics held in Paris, France on December 12-15, 2016.

Download English Version:

<https://daneshyari.com/en/article/7238720>

Download Persian Version:

<https://daneshyari.com/article/7238720>

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