

# Accepted Manuscript

Full length article

Bubble-generating polymersomes loaded with both indocyanine green and doxorubicin for effective chemotherapy combined with photothermal therapy

Dunwan Zhu, Fan Fan, Chenlu Huang, Zhiming Zhang, Yu Qin, Li Lu, Hai Wang, Xu Jin, Hanxue Zhao, Hu Yang, Chao Zhang, Jun Yang, Zhipeng Liu, Hongfan Sun, Xigang Leng, Deling Kong, Linhua Zhang

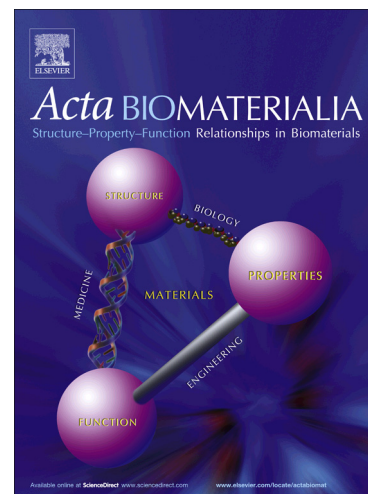
PII: S1742-7061(18)30309-X  
DOI: <https://doi.org/10.1016/j.actbio.2018.05.033>  
Reference: ACTBIO 5486

To appear in: *Acta Biomaterialia*

Received Date: 11 February 2018  
Revised Date: 20 April 2018  
Accepted Date: 20 May 2018

Please cite this article as: Zhu, D., Fan, F., Huang, C., Zhang, Z., Qin, Y., Lu, L., Wang, H., Jin, X., Zhao, H., Yang, H., Zhang, C., Yang, J., Liu, Z., Sun, H., Leng, X., Kong, D., Zhang, L., Bubble-generating polymersomes loaded with both indocyanine green and doxorubicin for effective chemotherapy combined with photothermal therapy, *Acta Biomaterialia* (2018), doi: <https://doi.org/10.1016/j.actbio.2018.05.033>

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.



# Bubble-generating Polymersomes Loaded with both Indocyanine Green and Doxorubicin for Effective Chemotherapy Combined with Photothermal Therapy

Dunwan Zhu<sup>1#</sup>, Fan Fan<sup>1#</sup>, Chenlu Huang<sup>1</sup>, Zhiming Zhang<sup>1</sup>, Yu Qin<sup>1</sup>, Li Lu<sup>1</sup>, Hai Wang<sup>1</sup>, Xu Jin<sup>2</sup>, Hanxue Zhao<sup>3</sup>, Hu Yang<sup>4</sup>, Chao Zhang<sup>1</sup>, Jun Yang<sup>1</sup>, Zhipeng Liu<sup>1</sup>, Hongfan Sun<sup>1</sup>, Xigang Leng<sup>1</sup>, Deling Kong<sup>1</sup>, Linhua Zhang<sup>1\*</sup>

<sup>1</sup>Institute of Biomedical Engineering, Chinese Academy of Medical Sciences & Peking Union Medical College, Tianjin Key Laboratory of Biomedical Materials, Tianjin 300192, China

<sup>2</sup>Department of Anesthesiology, Beijing Tiantan Hospital, Capital Medical University, Beijing 100050, China

<sup>3</sup>Department of Diagnostic Ultrasound, Beijing Tongren Hospital, Capital Medical University, Dong-Jiao-Min-Xiang, Dong Cheng District, Beijing 100730, PR China.

<sup>4</sup>Department of Chemical and Life Science Engineering, Virginia Commonwealth University, Richmond, VA 23219, USA; Department of Pharmaceutics, Virginia Commonwealth University, Richmond, VA 23298, USA; Massey Cancer Center, Virginia Commonwealth University, Richmond, VA 23298, USA.

**\*Corresponding author:**

**Linhua Zhang, Professor**

Institute of Biomedical Engineering, Chinese Academy of Medical Sciences & Peking

Download English Version:

<https://daneshyari.com/en/article/6482809>

Download Persian Version:

<https://daneshyari.com/article/6482809>

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