## Accepted Manuscript

Title: Biocompatible fabrication of cell-laden calcium alginate microbeads using microfluidic double flow-focusing device

Authors: Qing-Quan Liao, Shu-Kun Zhao, Bo Cai, Rong-Xiang He, Lang Rao, Yue Wu, Shi-Shang Guo, Quan-Yan Liu, Wei Liu, Xing-Zhong Zhao

PII: S0924-4247(17)31982-9

DOI: https://doi.org/10.1016/j.sna.2018.06.006

Reference: SNA 10811

To appear in: Sensors and Actuators A

Received date: 6-11-2017 Revised date: 8-5-2018 Accepted date: 4-6-2018



Please cite this article as: Liao Q-Quan, Zhao S-Kun, Cai B, He R-Xiang, Rao L, Wu Y, Guo S-Shang, Liu Q-Yan, Liu W, Zhao X-Zhong, Biocompatible fabrication of cell-laden calcium alginate microbeads using microfluidic double flow-focusing device, *Sensors and Actuators: A. Physical* (2018), https://doi.org/10.1016/j.sna.2018.06.006

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

# Biocompatible fabrication of cell-laden calcium alginate microbeads using microfluidic double flow-focusing device

Qing-Quan Liao,<sup>1#</sup> Shu-Kun Zhao,<sup>1#</sup> Bo Cai,<sup>1, 2</sup> Rong-Xiang He,<sup>3</sup> Lang Rao,<sup>1</sup> Yue Wu,<sup>1</sup> Shi-Shang Guo,<sup>1</sup> Quan-Yan Liu,<sup>4\*</sup> Wei Liu,<sup>1\*</sup> Xing-Zhong Zhao<sup>1\*</sup>

#### **Affiliations**

- <sup>1</sup> Key Laboratory of Artificial Micro- and Nano-structures of Ministry of Education, School of Physics and Technology, Wuhan University, Wuhan, China.
- <sup>2</sup> Research Center for Tissue Engineering and Regenerative Medicine, Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China.
- <sup>3</sup> Institute for Interdisciplinary Research, Key Laboratory of Optoelectronic Chemical Materials and Devices of Ministry of Education, Jianghan University, Wuhan, China.
- <sup>4</sup> Department of General Surgery, Research Center of Digestive Diseases, Zhongnan Hospital, Wuhan University, Wuhan, China.
- $^{\it \#}$  These authors contributed equally to this work.
- \* Corresponding

#### Wei Liu

E-mail: wliu@whu.edu.cn.

#### Xing-Zhong Zhao

E-mail: xzzhao@whu.edu.cn.

#### Quan-Yan Liu

**Graphical Abstract** 

#### Download English Version:

# https://daneshyari.com/en/article/7133377

Download Persian Version:

https://daneshyari.com/article/7133377

<u>Daneshyari.com</u>