Accepted Manuscript

Mechanically resilient injectable scaffolds for intramuscular stem cell delivery and cytokine release

Stuart A. Young, Stephen E. Sherman, Tyler T. Cooper, Cody Brown, Fraz Anjum, David A. Hess, Lauren E. Flynn, Brian G. Amsden

PII: S0142-9612(18)30008-5

DOI: 10.1016/j.biomaterials.2018.01.008

Reference: JBMT 18423

To appear in: Biomaterials

Received Date: 30 August 2017

Revised Date: 24 November 2017

Accepted Date: 3 January 2018

Please cite this article as: Young SA, Sherman SE, Cooper TT, Brown C, Anjum F, Hess DA, Flynn LE, Amsden BG, Mechanically resilient injectable scaffolds for intramuscular stem cell delivery and cytokine release, *Biomaterials* (2018), doi: 10.1016/j.biomaterials.2018.01.008.

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

Mechanically Resilient Injectable Scaffolds for Intramuscular Stem Cell Delivery and Cytokine

Release

Stuart A. Young^{a,b}, Stephen E. Sherman^{c,d}, Tyler T. Cooper^{c,d}, Cody Brown^e, Fraz Anjum^f, David A. Hess^{c,d}, Lauren E. Flynn^{e,g}*, and Brian G. Amsden^{a,b}*

^a Department of Chemical Engineering, Queen's University, Kingston Ontario, K7L 3N6, Canada

^b Human Mobility Research Centre, Queen's University, Kingston Ontario, K7L 3N6, Canada

^c Krembil Centre for Stem Cell Biology, Molecular Medicine Research Laboratories, Robarts Research Institute, London, Ontario, Canada

^d Department of Physiology and Pharmacology, Schulich School of Medicine and Dentistry, The University of Western Ontario, London, Ontario, Canada

^e Department of Anatomy and Cell Biology, Schulich School of Medicine and Dentistry, The University of Western Ontario, London Ontario, N6A 3K7, Canada

^f Pharmaceutical Production Research Facility, University of Calgary, Calgary Alberta, T2N 1N4, Canada

^g Department of Chemical and Biochemical Engineering, Thompson Engineering Building, The University of Western Ontario, London Ontario, N6A 5B9, Canada

^{*} Co-corresponding author emails: amsden@queensu.ca, lauren.flynn@uwo.ca

Download English Version:

https://daneshyari.com/en/article/6484666

Download Persian Version:

https://daneshyari.com/article/6484666

<u>Daneshyari.com</u>