Accepted Manuscript

Full length article

Effects of Tunable, 3D-Bioprinted Hydrogels on Human Brown Adipocyte Behavior and Metabolic Function

Mitchell Kuss, Jiyoung Kim, Dianjun Qi, Shaohua Wu, Yuguo Lei, Soonkyu Chung, Bin Duan

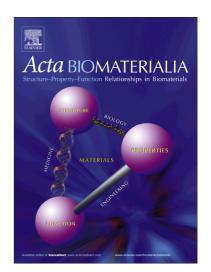
PII: S1742-7061(18)30141-7

DOI: https://doi.org/10.1016/j.actbio.2018.03.021

Reference: ACTBIO 5363

To appear in: Acta Biomaterialia

Received Date: 27 December 2017
Revised Date: 7 March 2018
Accepted Date: 8 March 2018



Please cite this article as: Kuss, M., Kim, J., Qi, D., Wu, S., Lei, Y., Chung, S., Duan, B., Effects of Tunable, 3D-Bioprinted Hydrogels on Human Brown Adipocyte Behavior and Metabolic Function, *Acta Biomaterialia* (2018), doi: https://doi.org/10.1016/j.actbio.2018.03.021

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

Effects of Tunable, 3D-Bioprinted Hydrogels on Human Brown Adipocyte Behavior and Metabolic Function

Mitchell Kuss^{1,2}, Jiyoung Kim³, Dianjun Qi^{1,4}, Shaohua Wu^{1,2}, Yuguo Lei^{1,5}, Soonkyu Chung^{3*} Bin Duan^{1,2,6*}

¹Mary & Dick Holland Regenerative Medicine Program, University of Nebraska Medical Center, Omaha, NE, 68198, USA

²Division of Cardiology, Department of Internal Medicine, University of Nebraska Medical Center, Omaha, NE, 68198, USA

³Department of Nutrition and Health Sciences, University of Nebraska-Lincoln, Lincoln, NE, 68516, USA

⁴Department of General Practice, The First Affiliated Hospital of China Medical University, Shenyang, Liaoning, People's Republic of China

⁵Department of Chemical and Biomolecular Engineering, University of Nebraska-Lincoln, Lincoln, NE 68516, USA

⁶Department of Surgery, College of Medicine, University of Nebraska Medical Center, Omaha, NE, 68198, USA

*Corresponding author: schung4@unl.edu; bin.duan@unmc.edu

KEYWORDS: Tissue engineering; brown adipocytes; obesity; stiffness; porosity

Download English Version:

https://daneshyari.com/en/article/6482980

Download Persian Version:

https://daneshyari.com/article/6482980

<u>Daneshyari.com</u>