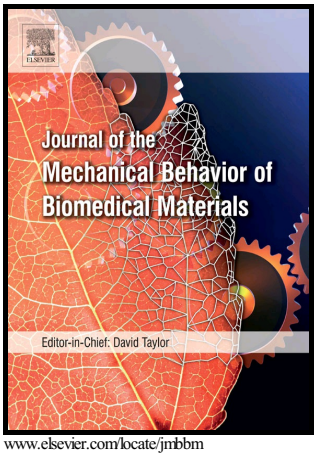
Author's Accepted Manuscript

Large strain stimulation promotes extracellular matrix production and stiffness in an elastomeric scaffold model

Antonio D'Amore, Joao Soares, John A. Stella, Will Zhang, Nicholas J. Amoroso, John E. Mayer, Jr., William R. Wagner, Michael S. Sacks



www.elsevier.com/locate/jmbbm

PII: S1751-6161(16)30123-0
DOI: http://dx.doi.org/10.1016/j.jmbbm.2016.05.005
Reference: JMBBM1917

To appear in: *Journal of the Mechanical Behavior of Biomedical Materials*

Received date: 6 January 2016
Revised date: 30 April 2016
Accepted date: 3 May 2016

Cite this article as: Antonio D'Amore, Joao Soares, John A. Stella, Will Zhang Nicholas J. Amoroso, John E. Mayer, Jr., William R. Wagner and Michael S. Sacks, Large strain stimulation promotes extracellular matrix production an stiffness in an elastomeric scaffold model, *Journal of the Mechanical Behavio of Biomedical Materials,* http://dx.doi.org/10.1016/j.jmbbm.2016.05.005

This is a PDF file of an unedited manuscript that has been accepted fo publication. As a service to our customers we are providing this early version o the manuscript. The manuscript will undergo copyediting, typesetting, an review of the resulting galley proof before it is published in its final citable form Please note that during the production process errors may be discovered whic could affect the content, and all legal disclaimers that apply to the journal pertain

ACCEPTED MANUSCRIPT

LARGE STRAIN STIMULATION PROMOTES EXTRACELLULAR MATRIX PRODUCTION AND STIFFNESS IN AN ELASTOMERIC SCAFFOLD MODEL

Antonio D'Amore[1,2,3,*], Joao Soares[4,*], John A. Stella[1], Will Zhang[4], Nicholas J. Amoroso[1], John E. Mayer, Jr.[5], William R. Wagner[1,] and Michael S. Sacks[4,**]

[1]Department of Bioengineering
McGowan Institute for Regenerative Medicine,
University of Pittsburgh, Pittsburgh, PA USA

[2]Fondazione RiMED, Italy
[3]DICGIM, Università di Palermo, Italy

[4]Center for Cardiovascular Simulation
Institute for Computational Engineering and Sciences
Department of Biomedical Engineering
The University of Texas at Austin, Austin TX USA

[5]Department of Cardiac Surgery
Boston Children's Hospital and Harvard Medical School
Boston, MA USA

Current 4/28/2016

Re-submitted to JMBBM

*Equal contribution as first authors

**For correspondence:
Michael S. Sacks, Ph.D.
W. A. "Tex" Moncrief, Jr. Simulation-Based Engineering Science Chair I
201 East 24th Street, One University Station, C0200
The University of Texas at Austin
Austin TX 78712
Tel: 512-232-7773
Fax: 512-232-7508
email: msacks@ices.utexas.edu

Accepted manuscript

Download English Version:

https://daneshyari.com/en/article/7207856

Download Persian Version:

https://daneshyari.com/article/7207856

Daneshyari.com