## Accepted Manuscript

Fibroblast-Like Synoviocyte Mechanosensitivity to Fluid Shear is Modulated by Interleukin- $1\alpha$ 

Eben G. Estell, Lance A. Murphy, Amy M. Silverstein, Andrea R. Tan, Roshan P. Shah, Gerard A. Ateshian, Clark T Hung

PII: S0021-9290(17)30308-1

DOI: http://dx.doi.org/10.1016/j.jbiomech.2017.06.011

Reference: BM 8250

To appear in: Journal of Biomechanics

Accepted Date: 13 June 2017



Please cite this article as: E.G. Estell, L.A. Murphy, A.M. Silverstein, A.R. Tan, R.P. Shah, G.A. Ateshian, C.T. Hung, Fibroblast-Like Synoviocyte Mechanosensitivity to Fluid Shear is Modulated by Interleukin-1α, *Journal of Biomechanics* (2017), doi: http://dx.doi.org/10.1016/j.jbiomech.2017.06.011

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**

Manuscript Number BM-D-17-00139: Revision 1 (Original)

#### Fibroblast-Like Synoviocyte Mechanosensitivity to Fluid Shear is Modulated by Interleukin-1a

Eben G. Estell<sup>1</sup>, Lance A. Murphy<sup>1</sup>, Amy M. Silverstein<sup>1</sup>, Andrea R. Tan, Ph.D.<sup>1</sup>, Roshan P. Shah<sup>2</sup>, M.D., Gerard A. Ateshian, Ph.D.<sup>1</sup>, Clark T Hung, Ph.D.<sup>1\*</sup>

<sup>1</sup>Columbia University, Department of Biomedical Engineering, New York, NY

<sup>2</sup>Columbia University, Department of Orthopedic Surgery, New York, NY

\*Corresponding Author: Clark T. Hung

351 Engineering Terrace

1210 Amsterdam Avenue, Mail Code: 8904

New York, NY 10027

Phone: +1 212-854-6542 Fax: +1 212-854-8725 Email: cth6@columbia.edu

Submitted for publication as an Original Article

Key words: calcium signaling, shear stress, gap junction communication, primary cilia, osteoarthritis

Word Count:

Abstract: 242/250

Introduction-Acknowledgements: 3497/3500

#### Download English Version:

# https://daneshyari.com/en/article/5031958

Download Persian Version:

https://daneshyari.com/article/5031958

<u>Daneshyari.com</u>