

Accepted Manuscript

Full length article

Biological connective tissues exhibit viscoelastic and poroelastic behavior at different frequency regimes: application to tendon and skin biophysics

Ramin Oftadeh, Brianne K. Connizzo, Hadi Tavakoli Nia, Christine Ortiz, Alan J. Grodzinsky

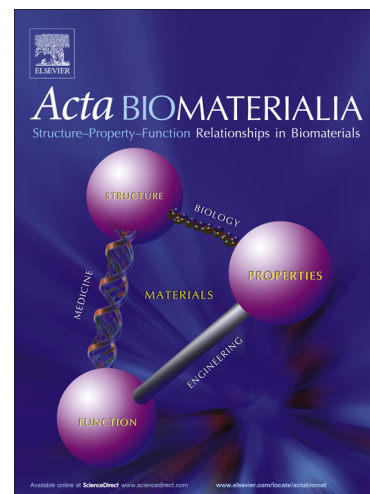
PII: S1742-7061(18)30052-7
DOI: <https://doi.org/10.1016/j.actbio.2018.01.041>
Reference: ACTBIO 5296

To appear in: *Acta Biomaterialia*

Received Date: 3 October 2017
Revised Date: 28 January 2018
Accepted Date: 29 January 2018

Please cite this article as: Oftadeh, R., Connizzo, B.K., Nia, H.T., Ortiz, C., Grodzinsky, A.J., Biological connective tissues exhibit viscoelastic and poroelastic behavior at different frequency regimes: application to tendon and skin biophysics, *Acta Biomaterialia* (2018), doi: <https://doi.org/10.1016/j.actbio.2018.01.041>

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.



Biological connective tissues exhibit viscoelastic and poroelastic behavior at different frequency regimes: application to tendon and skin biophysics**Ramin Oftadeh¹, Brianne K. Connizzo¹, Hadi Tavakoli Nia², Christine Ortiz³, Alan J. Grodzinsky^{1,4,5*}**

¹ *Department of Biological Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA*

² *Massachusetts General Hospital, Harvard Medical School, Cambridge, MA 02139, United States*

³ *Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, MA 02139, United States*

⁴ *Department of Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, MA, USA*

⁵ *Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Cambridge, MA, USA*

*Correspondence: alg@mit.edu

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6483007>

Download Persian Version:

<https://daneshyari.com/article/6483007>

[Daneshyari.com](https://daneshyari.com)