

Accepted Manuscript

Ex vivo replication of phenotypic functions of osteocytes through biomimetic 3D bone tissue construction

Qiaoling Sun, Saba Choudhary, Ciaran Mannion, Yair Kissin, Jenny Zilberberg, Woo Y. Lee



PII: S8756-3282(17)30385-X
DOI: doi:[10.1016/j.bone.2017.10.019](https://doi.org/10.1016/j.bone.2017.10.019)
Reference: BON 11459
To appear in: *Bone*
Received date: 28 June 2017
Revised date: 16 October 2017
Accepted date: 20 October 2017

Please cite this article as: Qiaoling Sun, Saba Choudhary, Ciaran Mannion, Yair Kissin, Jenny Zilberberg, Woo Y. Lee , Ex vivo replication of phenotypic functions of osteocytes through biomimetic 3D bone tissue construction. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Bone*(2017), doi:[10.1016/j.bone.2017.10.019](https://doi.org/10.1016/j.bone.2017.10.019)

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.

**Ex Vivo Replication of Phenotypic Functions of Osteocytes through Biomimetic 3D Bone
Tissue Construction**

Qiaoling Sun,¹ Saba Choudhary,² Ciaran Mannion,⁴ Yair Kissin,⁵

Jenny Zilberberg,^{3,*} and Woo Y. Lee^{1,*,#}

¹Department of Materials Science and Chemical Engineering, Stevens Institute of Technology,
Hoboken, NJ, USA

²Department of Biomedical Engineering, Chemistry and Biological Sciences, Stevens Institute of
Technology, Hoboken, NJ, USA

³Department of Biomedical Research, Hackensack University Medical Center, Hackensack, NJ,
USA

⁴Department of Pathology, Hackensack University Medical Center, Hackensack, NJ, USA

⁵Department of Orthopedic Surgery, Hackensack University Medical Center, Hackensack, NJ,
USA

*Equally contributed to this work

#Corresponding author

Woo Young Lee, Ph.D.

1 Castle Point on Hudson

Stevens Institute of Technology

Hoboken, NJ 07030

201-216-8307

wlee@stevens.edu

Supplemental data are included with the submission.

Download English Version:

<https://daneshyari.com/en/article/8625251>

Download Persian Version:

<https://daneshyari.com/article/8625251>

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