

## Accepted Manuscript

Enzyme-crosslinked Gene-activated Matrix for the Induction of Mesenchymal Stem Cells in Osteochondral Tissue Regeneration

Yi-Hsuan Lee, Hsi-Chin Wu, Chia-Wei Yeh, Chen-Hsiang Kuan, Han-Tsung Liao, Horng-Chaung Hsu, Jui-Che Tsai, Jui-Sheng Sun, Tzu-Wei Wang

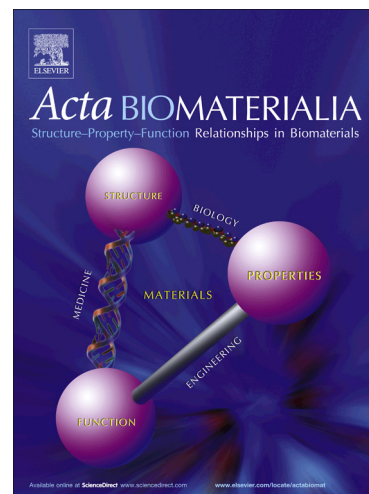
PII: S1742-7061(17)30568-8  
DOI: <http://dx.doi.org/10.1016/j.actbio.2017.09.008>  
Reference: ACTBIO 5070

To appear in: *Acta Biomaterialia*

Received Date: 2 March 2017  
Revised Date: 26 August 2017  
Accepted Date: 2 September 2017

Please cite this article as: Lee, Y-H., Wu, H-C., Yeh, C-W., Kuan, C-H., Liao, H-T., Hsu, H-C., Tsai, J-C., Sun, J-S., Wang, T-W., Enzyme-crosslinked Gene-activated Matrix for the Induction of Mesenchymal Stem Cells in Osteochondral Tissue Regeneration, *Acta Biomaterialia* (2017), doi: <http://dx.doi.org/10.1016/j.actbio.2017.09.008>

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.



# Enzyme-crosslinked Gene-activated Matrix for the Induction of Mesenchymal Stem Cells in Osteochondral Tissue Regeneration

*Yi-Hsuan Lee<sup>1</sup>, Hsi-Chin Wu<sup>2</sup>, Chia-Wei Yeh<sup>3</sup>, Chen-Hsiang Kuan<sup>4</sup>, Han-Tsung Liao<sup>5</sup>, Horng-Chaung Hsu<sup>6</sup>, Jui-Che Tsai<sup>2</sup>, Jui-Sheng Sun<sup>1,7\*</sup>, Tzu-Wei Wang<sup>1,3\*</sup>*

<sup>1</sup> Institute of Biomedical Engineering, National Tsing Hua University, Taiwan

<sup>2</sup> Department of Materials Engineering, Tatung University, Taiwan

<sup>3</sup> Department of Materials Science and Engineering, National Tsing Hua University, Taiwan

<sup>4</sup> Department of Plastic and Reconstructive Surgery, National Taiwan University Hospital,  
Taiwan

<sup>5</sup> Department of Plastic and Reconstructive Surgery, Chang Gung Memorial Hospital, Taiwan

<sup>6</sup> Department of Orthopedics, China Medical University Hospital, Taiwan

<sup>7</sup> Department of Orthopedic Surgery, National Taiwan University Hospital, Taiwan

\* Corresponding Author:

Tzu-Wei Wang, Ph.D.

Associate Professor

Department of Materials Science and Engineering

Download English Version:

<https://daneshyari.com/en/article/6483226>

Download Persian Version:

<https://daneshyari.com/article/6483226>

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