Accepted Manuscript

Transcutaneous implantation of valproic acid-encapsulated dissolving microneedles induces hair regrowth

Shayan Fakhraei Lahiji, Seol Hwa Seo, Suyong Kim, Manita Dangol, Jiyong Shim, Cheng Guo Li, Yonghao Ma, Chisong Lee, Geonwoo Kang, Huisuk Yang, Kang-Yell Choi, Hyungil Jung

PII: S0142-9612(18)30185-6

DOI: 10.1016/j.biomaterials.2018.03.019

Reference: JBMT 18545

To appear in: Biomaterials

Received Date: 16 December 2017

Revised Date: 1 March 2018

Accepted Date: 12 March 2018

Please cite this article as: Lahiji SF, Seo SH, Kim S, Dangol M, Shim J, Li CG, Ma Y, Lee C, Kang G, Yang H, Choi K-Y, Jung H, Transcutaneous implantation of valproic acid-encapsulated dissolving microneedles induces hair regrowth, *Biomaterials* (2018), doi: 10.1016/j.biomaterials.2018.03.019.

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.



Transcutaneous Implantation of Valproic Acid-Encapsulated Dissolving Microneedles Induces Hair Regrowth

Shayan Fakhraei Lahiji^a, Seol Hwa Seo^b, Suyong Kim^a, Manita Dangol^a, Jiyong Shim^b, Cheng Guo Li^a, Yonghao Ma^a, Chisong Lee^a, Geonwoo Kang^a, Huisuk Yang^a, Kang-Yell Choi^b, Hyungil Jung^{a,c,*}

^a Department of Biotechnology, Building 123, Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 03722, Korea
^b Translational Research Center for Protein Function Control, Building 117, Yonsei University, 50 Yonsei-ro,
Seodaemun-gu, Seoul 03722, Korea

^c Juvic Biotech, Inc., Building 102, Yonsei Engineering Research Park, 50 Yonsei-ro, Seodaemun-gu, Seoul 03722, Korea

* Correspondence: Professor. Hyungil Jung, B513, Building 123, Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 03722, Korea. Tel: +82-2-2123-2884, Fax: +82-2-362-7265

Email: hijung@yonsei.ac.kr (H. Jung)

Download English Version:

https://daneshyari.com/en/article/6484554

Download Persian Version:

https://daneshyari.com/article/6484554

Daneshyari.com