## Author's Accepted Manuscript

Optogenetic Control of Body Movements *via* Flexible Vertical Light-Emitting Diodes on Brain Surface

Seung Hyun Lee, Jeongjin Kim, Jung Ho Shin, Han Eol Lee, Il-Suk Kang, Kiuk Gwak, Dae-Shik Kim, Daesoo Kim, Keon Jae Lee



 PII:
 S2211-2855(17)30778-4

 DOI:
 https://doi.org/10.1016/j.nanoen.2017.12.011

 Reference:
 NANOEN2392

To appear in: Nano Energy

Received date: 9 November 2017 Revised date: 6 December 2017 Accepted date: 6 December 2017

Cite this article as: Seung Hyun Lee, Jeongjin Kim, Jung Ho Shin, Han Eol Lee, Il-Suk Kang, Kiuk Gwak, Dae-Shik Kim, Daesoo Kim and Keon Jae Lee, Optogenetic Control of Body Movements *via* Flexible Vertical Light-Emitting Diodes on Brain Surface, *Nano Energy*, https://doi.org/10.1016/j.nanoen.2017.12.011

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 galley proof before it is published in its final citable 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.

## **Optogenetic Control of Body Movements** *via* **Flexible Vertical Light-Emitting Diodes on Brain Surface**

Seung Hyun Lee<sup>a1</sup>, Jeongjin Kim<sup>b,d1</sup>, Jung Ho Shin<sup>a1</sup>, Han Eol Lee<sup>a</sup>, Il-Suk Kang<sup>c</sup>, Kiuk Gwak<sup>e</sup>, Dae-Shik Kim<sup>e</sup>, Daesoo Kim<sup>b\*</sup>, Keon Jae Lee<sup>a\*\*</sup>

<sup>a</sup>Department of Materials Science and Engineering, Korea Advanced Institute of Science and

Technology (KAIST), 291, Daehak-ro, Yuseong-gu, Daejeon 34141, Republic of Korea

<sup>b</sup>Department of Biological Sciences, Korea Advanced Institute of Science and Technology

(KAIST), 291, Daehak-ro, Yuseong-gu, Daejeon, 34141, Republic of Korea

<sup>c</sup>National Nanofab Center, Korea Advanced Institute of Science and Technology (KAIST),

291, Daehak-ro, Yuseong-gu, Daejeon, 34141, Republic of Korea

<sup>d</sup>Center for Neuroscience, Korea Institute of Science and Technology (KIST), Seoul,

Republic of Korea

<sup>e</sup>Department of Electrical Engineering, Korea Advanced Institute of Science and Technology (KAIST), 291, Daehak-ro, Yuseong-gu, Daejeon, 34141, Republic of Korea

daesoo@kaist.ac.kr

keonlee@kaist.ac.kr

<sup>\*</sup>Corresponding author at: Department of Biological Sciences, Korea Advanced Institute of Science and Technology (KAIST), 291, Daehak-ro, Yuseong-gu, Daejeon 34141, Republic of Korea.

<sup>&</sup>lt;sup>1</sup> These authors contributed equally to this work.

Download English Version:

## https://daneshyari.com/en/article/7953023

Download Persian Version:

https://daneshyari.com/article/7953023

Daneshyari.com