## Accepted Manuscript

Estrogen alleviates neuropathic pain induced after spinal cord injury by inhibiting microglia and astrocyte activation

Jee Youn Lee, Hae Young Choi, Bong Gun Ju, Tae Young Yune

PII: S0925-4439(18)30130-3

DOI: doi:10.1016/j.bbadis.2018.04.006

Reference: BBADIS 65103

To appear in:

Received date: 17 October 2017 Revised date: 15 March 2018 Accepted date: 9 April 2018

Please cite this article as: Jee Youn Lee, Hae Young Choi, Bong Gun Ju, Tae Young Yune, Estrogen alleviates neuropathic pain induced after spinal cord injury by inhibiting microglia and astrocyte activation. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Bbadis(2018), doi:10.1016/j.bbadis.2018.04.006

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.



CCEPTED MANUSCRIPT

Estrogen alleviates neuropathic pain induced after spinal cord

injury by inhibiting microglia and astrocyte activation

Jee Youn Lee<sup>a</sup>, Hae Young Choi <sup>a</sup>, Bong Gun. Ju<sup>b</sup> Tae Young Yune<sup>a,c,d</sup>\*

<sup>a</sup>Age-Related and Brain Diseases Research Center, Kyung Hee University, Seoul 02447,

Republic of Korea, <sup>b</sup>Department of Life Science, Sogang University, Seoul 04107, Republic of

Korea, <sup>c</sup>Department of Biochemistry and Molecular Biology, School of Medicine, Kyung Hee

University, Seoul, 02447, Republic of Korea, dKHU-KIST Department of Converging Science

and Technology, Kyung Hee University, Seoul, 130-701, Republic of Korea.

**Short title:** Estrogen inhibits neuropathic pain after SCI

Key words: spinal cord injury, estrogen receptor, neuropathic pain, microglia, astrocyte

\* Correspondence to: Tae Y. Yune, Department of Biochemistry and Molecular Biology,

School of Medicine, Kyung Hee University, Medical Building 10th Floor, 1 Hoegi-dong,

Dongdaemun-gu, Seoul 02447, Republic of Korea, Tel: +82 2 969 6943; Fax: +82 2 969 6343;

E-mail: tyune@khu.ac.kr

1

## Download English Version:

## https://daneshyari.com/en/article/8258401

Download Persian Version:

https://daneshyari.com/article/8258401

<u>Daneshyari.com</u>