

Accepted Manuscript

Title: Opposite effects of mu and delta opioid receptor agonists on excitatory propagation induced in rat somatosensory and insular cortices by dental pulp stimulation

Author: Eiko Yokota Yuko Koyanagi Hiroko Nakamura Eri Horinuki Yoshiyuki Oi Masayuki Kobayashi



PII: S0304-3940(16)30395-0
DOI: <http://dx.doi.org/doi:10.1016/j.neulet.2016.05.065>
Reference: NSL 32084

To appear in: *Neuroscience Letters*

Received date: 17-4-2016
Revised date: 20-5-2016
Accepted date: 27-5-2016

Please cite this article as: Eiko Yokota, Yuko Koyanagi, Hiroko Nakamura, Eri Horinuki, Yoshiyuki Oi, Masayuki Kobayashi, Opposite effects of mu and delta opioid receptor agonists on excitatory propagation induced in rat somatosensory and insular cortices by dental pulp stimulation, *Neuroscience Letters* <http://dx.doi.org/10.1016/j.neulet.2016.05.065>

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.

Opposite effects of mu and delta opioid receptor agonists on excitatory propagation induced in rat somatosensory and insular cortices by dental pulp stimulation

Eiko Yokota^{1,2}, Yuko Koyanagi^{2,3}, Hiroko Nakamura^{1,4}, Eri Horinuki^{1,5}, Yoshiyuki Oi^{2,3},
and Masayuki Kobayashi^{1,6,7}

¹ Department of Pharmacology, Nihon University School of Dentistry, 1-8-13 Kanda-Surugadai, Chiyoda-ku, Tokyo 101-8310, Japan

² Department of Anesthesiology, Nihon University School of Dentistry, 1-8-13 Kanda-Surugadai, Chiyoda-ku, Tokyo 101-8310, Japan

³ Division of Immunology and Pathobiology, Dental Research Center, Nihon University School of Dentistry, 1-8-13 Kanda-Surugadai, Chiyoda-ku, Tokyo 101-8310, Japan

⁴ Department of Pediatric Dentistry, Nihon University School of Dentistry, 1-8-13 Kanda-Surugadai, Chiyoda-ku, Tokyo 101-8310, Japan

⁵ Division of Orthodontics, Nihon University School of Dentistry, 1-8-13 Kanda-Surugadai, Chiyoda-ku, Tokyo 101-8310, Japan

⁶ Division of Oral and Craniomaxillofacial Research, Dental Research Center, Nihon University School of Dentistry, 1-8-13 Kanda-Surugadai, Chiyoda-ku, Tokyo 101-8310, Japan

⁷ RIKEN Center for Life Science Technologies, 6-7-3 Minatojima-minamimachi, Chuo-ku, Kobe 650-0047, Japan

Corresponding Authors: Masayuki Kobayashi, D.D.S., Ph.D.

Department of Pharmacology

Nihon University School of Dentistry

1-8-13 Kanda-Surugadai, Chiyoda-ku, Tokyo 101-8310, Japan

Phone: +81-3-3219-8126

Fax: +81-3-3219-8136

e-mail: kobayashi.masayuki@nihon-u.ac.jp

Numbers of pages and figures: 18 pages and 2 figures

Total number of words: (i) Abstract, 247; (ii) Total, 4,239.

Download English Version:

<https://daneshyari.com/en/article/6279345>

Download Persian Version:

<https://daneshyari.com/article/6279345>

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