

Accepted Manuscript

Mechanisms of μ -opioid receptor inhibition of NMDA receptor-induced substance P release in the rat spinal cord

Wenling Chen, Helena S. Ennes, James A. McRoberts, Juan Carlos Marvizon



PII: S0028-3908(17)30481-1

DOI: [10.1016/j.neuropharm.2017.10.014](https://doi.org/10.1016/j.neuropharm.2017.10.014)

Reference: NP 6899

To appear in: *Neuropharmacology*

Received Date: 14 June 2017

Revised Date: 21 September 2017

Accepted Date: 11 October 2017

Please cite this article as: Chen, W., Ennes, H.S., McRoberts, J.A., Marvizon, J.C., Mechanisms of μ -opioid receptor inhibition of NMDA receptor-induced substance P release in the rat spinal cord, *Neuropharmacology* (2017), doi: 10.1016/j.neuropharm.2017.10.014.

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.

Mechanisms of μ -opioid receptor inhibition of NMDA receptor-induced substance P release in the rat spinal cord

Wenling Chen^{1,2}, Helena S. Ennes², James A. McRoberts² and Juan Carlos Marvizon^{1,2}

¹Veteran Affairs Greater Los Angeles Healthcare System, 11310 Wilshire Blvd., Building 115, Los Angeles, California 90073, USA

²Vatche and Tamar Manoukian Division of Digestive Diseases, 900 Veterans Ave., Warren Hall Building, Department of Medicine, David Geffen School of Medicine at the University of California Los Angeles, Los Angeles, California 90095, USA

E-mail addresses:

Chen, WenLingChen@mednet.ucla.edu

Ennes, HEnnes@mednet.ucla.edu

McRoberts, JMcRobs@mednet.ucla.edu

Marvizon, marvizon@g.ucla.edu

Corresponding author: Juan Carlos G. Marvizon, VA Greater Los Angeles Healthcare System, 11301 Wilshire Blvd., Building 115, Los Angeles, CA 90073; phone: 310-478 3711 extension 41850; fax: 310-312 9289; e-mail: marvizon@g.ucla.edu

Download English Version:

<https://daneshyari.com/en/article/8517514>

Download Persian Version:

<https://daneshyari.com/article/8517514>

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