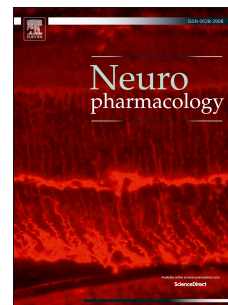


# Accepted Manuscript

Identification of histaminergic neurons through histamine 3 receptor-mediated autoinhibition

R. De Luca, T. Suvorava, D. Yang, W. Baumgärtel, G. Kojda, H.L. Haas, O.A. Sergeeva



PII: S0028-3908(15)30070-8

DOI: [10.1016/j.neuropharm.2015.08.025](https://doi.org/10.1016/j.neuropharm.2015.08.025)

Reference: NP 5971

To appear in: *Neuropharmacology*

Received Date: 21 May 2015

Revised Date: 30 July 2015

Accepted Date: 16 August 2015

Please cite this article as: De Luca, R., Suvorava, T., Yang, D., Baumgärtel, W., Kojda, G., Haas, H.L., Sergeeva, O.A., Identification of histaminergic neurons through histamine 3 receptor-mediated autoinhibition, *Neuropharmacology* (2015), doi: 10.1016/j.neuropharm.2015.08.025.

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.

## Identification of histaminergic neurons through histamine 3 receptor-mediated autoinhibition

R. De Luca<sup>1</sup>, T. Suvorava<sup>2</sup>, D. Yang<sup>1</sup>, W. Baumgärtel<sup>1</sup>, G. Kojda<sup>2</sup>, H.L. Haas<sup>1</sup>  
and O.A. Sergeeva<sup>1</sup>

1 Department of Neurophysiology, Heinrich-Heine-Universität, Medical Faculty, D-40225 Düsseldorf, Germany

2 Institute for Pharmacology and Clinical Pharmacology, Heinrich-Heine-Universität, Medical Faculty, D-40225 Düsseldorf, Germany

### Corresponding author:

Olga Sergeeva, Neurophysiology, HHU Düsseldorf, Germany

Tel xx49 211 811 1981 Fax xx49 211 811 4231

e-mail: olga.sergeeva@uni-duesseldorf.de

### Highlights:

- Autoinhibition through H<sub>3</sub>R is a reliable identification criterion for histaminergic neurons of the mouse tuberomamillary nucleus (TMN) irrespective of their axonal projection.
- Autoinhibition is calcium-sensitive and can be reduced by depolarization or preincubation with the TRPV1 agonist capsaicin.
- The TMN contains non-histaminergic neurons expressing the dopamine transporter which are excited by histamine through H<sub>1</sub>R activation.

Download English Version:

<https://daneshyari.com/en/article/5813439>

Download Persian Version:

<https://daneshyari.com/article/5813439>

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