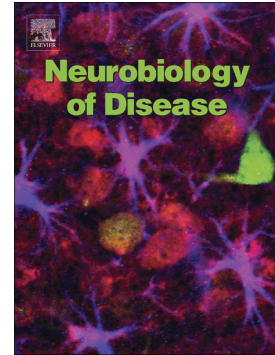


Accepted Manuscript

Melanin-concentrating hormone neurons contribute to dysregulation of rapid eye movement sleep in narcolepsy

Fumito Naganuma, Sathyajit Bandaru, Gianna Absi, Carrie E. Mahoney, Thomas E. Scammell, Ramalingam Vetrivelan



PII: S0969-9961(18)30483-2
DOI: doi:[10.1016/j.nbd.2018.08.012](https://doi.org/10.1016/j.nbd.2018.08.012)
Reference: YNBDI 4253
To appear in: *Neurobiology of Disease*
Received date: 25 January 2018
Revised date: 2 August 2018
Accepted date: 23 August 2018

Please cite this article as: Fumito Naganuma, Sathyajit Bandaru, Gianna Absi, Carrie E. Mahoney, Thomas E. Scammell, Ramalingam Vetrivelan , Melanin-concentrating hormone neurons contribute to dysregulation of rapid eye movement sleep in narcolepsy. *Ynbdi* (2018), doi:[10.1016/j.nbd.2018.08.012](https://doi.org/10.1016/j.nbd.2018.08.012)

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.

Melanin-concentrating hormone neurons contribute to dysregulation of rapid eye movement sleep in narcolepsy

Fumito Naganuma^{1,2}, Sathyajit Bandaru¹, Gianna Absi¹, Carrie E. Mahoney¹, Thomas E Scammell¹, Ramalingam Vetrivelan¹.

1. Department of Neurology, Beth Israel Deaconess Medical Center and Division of Sleep Medicine, Harvard Medical School, Boston, MA-02215, USA.

2. Division of Pharmacology, Faculty of Medicine, Tohoku Medical and Pharmaceutical University, 1-15-1, Fukumuro, Miyagino-ku, Sendai, 983-8536, Japan.

Correspondence may be addressed to

Dr. Ramalingam Vetrivelan, PhD

Department of Neurology

Beth Israel Deaconess Medical Center

3 Blackfan Circle

Center for Life Science # 711

Boston, MA-02215.

Conflict of Interest: This was not an industry-supported study. All authors have indicated no financial conflicts of interest.

Download English Version:

<https://daneshyari.com/en/article/8963287>

Download Persian Version:

<https://daneshyari.com/article/8963287>

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