Accepted Manuscript

Title: *Atp13a2* expression in the periaqueductal gray is decreased in the *Pink1* -/- rat model of Parkinson disease

Author: Cynthia A. Kelm-Nelson Sharon A. Stevenson

Michelle R. Ciucci

PII: S0304-3940(16)30208-7

DOI: http://dx.doi.org/doi:10.1016/j.neulet.2016.04.003

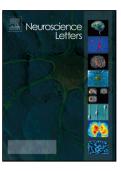
Reference: NSL 31953

To appear in: Neuroscience Letters

Received date: 9-10-2015 Revised date: 31-3-2016 Accepted date: 2-4-2016

Please cite this article as: Cynthia A.Kelm-Nelson, Sharon A.Stevenson, Michelle R.Ciucci, Atp13a2 expression in the periaqueductal gray is decreased in the Pink1 -/- rat model of Parkinson disease, Neuroscience Letters http://dx.doi.org/10.1016/j.neulet.2016.04.003

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.



ACCEPTED MANUSCRIPT

Atp13a2 expression in the periaqueductal gray is decreased in the Pink1 -/- rat model of Parkinson disease

Cynthia A. Kelm-Nelson a, Sharon A. Stevenson b, and Michelle R. Ciucci a, c, d

- ^a Department of Surgery, Division of Otolaryngology
- ^b Department of Zoology
- ^c Neuroscience Training Program
- ^d Department of Communication Sciences and Disorders University of Wisconsin-Madison Madison, WI USA

*Corresponding Author: Cynthia A. Kelm-Nelson, Ph.D. Department of Surgery, Division of Otolaryngology 1300 University Avenue, 483 Medical Sciences Center University of Wisconsin-Madison Madison, WI 53706 USA

Phone: 608-262-6122 Fax: 608-262-6356

Email: CAKelm@wisc.edu

Research Highlights:

- Pink1 -/- rats do not show increased alpha synuclein gene expression.
- Pink1 -/- rats do exhibit decreased Atp13a2 expression in the periaqueductal gray.
- Gad1 expression is reduced in the periaqueductal gray of Pink1 -/- rats.

Abstract:

Vocal communication deficits are common in Parkinson disease (PD). Widespread alpha-synuclein pathology is a common link between familial and sporadic PD, and recent genetic rat models based on familial genetic links increase the opportunity to explore vocalization deficits and their associated neuropathologies. Specifically, the *Pink1* knockout (-/-) rat presents with early, progressive motor deficits, including

Download English Version:

https://daneshyari.com/en/article/6279537

Download Persian Version:

https://daneshyari.com/article/6279537

<u>Daneshyari.com</u>