

Accepted Manuscript

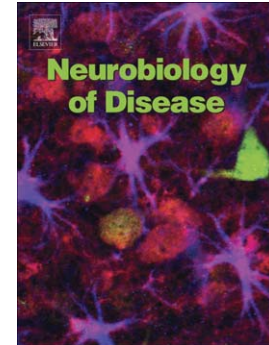
Optogenetic activation of striatal cholinergic interneurons regulates L-dopa-induced dyskinesias

Tanuja Bordia, Xiomara A. Perez, Jaime Heiss, Danhui Zhang, Maryka Quik

PII: S0969-9961(16)30041-9  
DOI: doi: [10.1016/j.nbd.2016.02.019](https://doi.org/10.1016/j.nbd.2016.02.019)  
Reference: YNBDI 3709

To appear in: *Neurobiology of Disease*

Received date: 21 December 2015  
Revised date: 26 January 2016  
Accepted date: 23 February 2016



Please cite this article as: Bordia, Tanuja, Perez, Xiomara A., Heiss, Jaime, Zhang, Danhui, Quik, Maryka, Optogenetic activation of striatal cholinergic interneurons regulates L-dopa-induced dyskinesias, *Neurobiology of Disease* (2016), doi: [10.1016/j.nbd.2016.02.019](https://doi.org/10.1016/j.nbd.2016.02.019)

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.

# Optogenetic activation of striatal cholinergic interneurons regulates L-dopa-induced dyskinesias

Tanuja Bordia<sup>1</sup>, Xiomara A. Perez<sup>1</sup>, Jaime Heiss, Danhui Zhang and Maryka Quik\*

*Bioscience Division, SRI International, 333 Ravenswood Ave, Menlo Park, CA 94025*

*Abbreviations:* AAV, adeno-associated virus; ACh, acetylcholine; AIMs, abnormal involuntary movements; ANOVA, analysis of variance; LIDs, L-dopa-induced dyskinesias; ChAT, choline acetyltransferase; ChR2, channelrhodopsin 2; DAT, dopamine transporter; ERK, extracellular signal regulated kinase1/2; mAChR, muscarinic acetylcholine receptor; nAChR, nicotinic acetylcholine receptor; 6-OHDA, 6-hydroxydopamine.

\*Correspondence to: Maryka Quik, Center for Health Sciences, SRI International, 333 Ravenswood Ave, Menlo Park, CA 94025, USA. Tel: 1-650-859-6112; Fax: 1-650-859-5099.

*E-mail address:* [maryka.quik@sri.com](mailto:maryka.quik@sri.com) (M. Quik)

<sup>1</sup>Co-first authors – contributed equally to the work

Download English Version:

<https://daneshyari.com/en/article/6021372>

Download Persian Version:

<https://daneshyari.com/article/6021372>

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