

## Accepted Manuscript

Calcineurin proteolysis in astrocytes: Implications for impaired synaptic function

Melanie M. Pleiss, Pradoldej Sompol, Susan D. Kraner, Hafiz Mohammad Abdul, Jennifer L. Furman, Rodney P. Guttmann, Donna M. Wilcock, Peter T. Nelson, Christopher M. Norris

PII: S0925-4439(16)30115-6  
DOI: doi: [10.1016/j.bbadis.2016.05.007](https://doi.org/10.1016/j.bbadis.2016.05.007)  
Reference: BBADIS 64468

To appear in: *BBA - Molecular Basis of Disease*

Received date: 8 October 2015  
Revised date: 14 May 2016  
Accepted date: 16 May 2016



Please cite this article as: Melanie M. Pleiss, Pradoldej Sompol, Susan D. Kraner, Hafiz Mohammad Abdul, Jennifer L. Furman, Rodney P. Guttmann, Donna M. Wilcock, Peter T. Nelson, Christopher M. Norris, Calcineurin proteolysis in astrocytes: Implications for impaired synaptic function, *BBA - Molecular Basis of Disease* (2016), doi: [10.1016/j.bbadis.2016.05.007](https://doi.org/10.1016/j.bbadis.2016.05.007)

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.

**Calcineurin proteolysis in astrocytes: Implications for impaired synaptic function.**

Melanie M. Pleiss<sup>1</sup>

Email: melanie.pleiss@uky.edu

Pradoldej Sompol<sup>2</sup>

Email: pradoldej.sompol@uky.edu

Susan D. Kraner, Ph.D.<sup>2</sup>

Email: susan.kraner@uky.edu

Hafiz Mohmmad Abdul, Ph.D.<sup>2</sup>

Email: hafiz\_biochem75@yahoo.com

Jennifer L. Furman, Ph.D.<sup>1</sup>

Email: jennifer.furman@utsouthwestern.edu

Rodney P. Guttman, Ph.D.<sup>2</sup>

Email: rguttman@uwf.edu

Donna M. Wilcock, Ph.D.<sup>2,4</sup>

Email: donna.wilcock@uky.edu

Peter T. Nelson, M.D., Ph.D.<sup>2</sup>

Email: pnels2@uky.edu

Christopher M. Norris, Ph.D.<sup>1,2\*</sup>

\*corresponding author

Email: cnorr2@uky.edu

<sup>1</sup>Department of Pharmacology and Nutritional Sciences, University of Kentucky College of Medicine, Lexington, KY, USA

<sup>2</sup>Sanders Brown Center on Aging, University of Kentucky College of Medicine, Lexington, KY, USA

<sup>3</sup>Department of Psychology, University of West Florida, Pensacola, FL, USA

<sup>4</sup>Department of Physiology, University of Kentucky College of Medicine, Lexington, KY, USA

**Abbreviations**

ΔCN: calcineurin proteolytic fragment; AD: Alzheimer's disease; AID: autoinhibitory domain; IHC: immunohistochemistry; Aβ: beta-amyloid; SMTG: superior and middle temporal gyri; NeuN: neuronal-specific nuclear protein; DAB: 3,3'-diaminobenzidine; CaM: calmodulin; N-terminus: amino-terminus; C-terminus: carboxy-terminus; FL-CN: full length calcineurin; GFAP: glial fibrillary acidic protein; CA1: *cornus ammonis* 1; H&E: hematoxylin & eosin; CNS: central nervous system; VCID: vascular cognitive impairment and dementia

Download English Version:

<https://daneshyari.com/en/article/8259053>

Download Persian Version:

<https://daneshyari.com/article/8259053>

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