## Accepted Manuscript

Aluminum exposure for 60days at an equivalent human dietary level promotes peripheral dysfunction in rats

Caroline Silveira Martinez, Gema Vera, José Antonio Uranga Ocio, Franck Maciel Peçanha, Dalton Valentim Vassallo, Marta Miguel Castro, Giulia Alessandra Wiggers

PII: S0162-0134(17)30469-5

DOI: doi: 10.1016/j.jinorgbio.2017.08.011

Reference: JIB 10294

To appear in: Journal of Inorganic Biochemistry

Received date: 30 June 2017 Revised date: 4 August 2017 Accepted date: 22 August 2017

Please cite this article as: Caroline Silveira Martinez, Gema Vera, José Antonio Uranga Ocio, Franck Maciel Peçanha, Dalton Valentim Vassallo, Marta Miguel Castro, Giulia Alessandra Wiggers, Aluminum exposure for 60days at an equivalent human dietary level promotes peripheral dysfunction in rats, *Journal of Inorganic Biochemistry* (2017), doi: 10.1016/j.jinorgbio.2017.08.011

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.



## Aluminum exposure for 60 days at an equivalent human dietary level promotes peripheral dysfunction in rats

Caroline Silveira Martinez<sup>a</sup>, Gema Vera<sup>b</sup>, José Antonio Uranga Ocio<sup>b</sup>, Franck Maciel Peçanha<sup>a</sup>, Dalton Valentim Vassallo<sup>c</sup>, Marta Miguel Castro<sup>d</sup>, Giulia Alessandra Wiggers<sup>a\*</sup>

<sup>a</sup>Graduate Program in Biochemistry, Universidade Federal do Pampa, BR 472 – Km 592 – PO box 118. Zip Code: 97500-970, Uruguaiana, Rio Grande do Sul, Brazil, <sup>b</sup>Department of Ciencias Básicas de la Salud, Universidad Rey Juan Carlos, Avda. de Atenas s/n, Alcorcón, Spain, <sup>c</sup>Departments of Physiological Sciences, Universidade Federal do Espírito Santo and School of Medicine of Santa Casa de Misericórdia (EMESCAM), Av. Marechal Campos 1468, Zip Code: 29040-090, Vitória, Espírito Santo, Brazil, <sup>d</sup>Bioactivity and Food Analysis Laboratory, Instituto de Investigación en Ciencias de la Alimentación, Nicolás Cabrera, 9, Campus Universitario de Cantoblanco, Madrid, Spain.

\*Correspondence to Giulia Alessandra Wiggers: giuliawp@gmail.com - PPGBioq - UNIPAMPA, BR 472 - Km 592 - PO box 118. Zip Code: 97500-970, Uruguaiana - Rio Grande do Sul, Brazil. Phone/fax: 55-55-34134321.

**Abbreviations:** Al, aluminum; PTWI, provisional tolerable weekly intake; ASIA, Autoimmune/inflammatory Syndrome Induced by Adjuvants; CNS, central nervous system, PNS, peripheral nervous system; AD, Alzheimer Disease; ROS, reactive oxygen species; RNS, reactive nitrogen species; MDA, malondialdehyde; TBA, thiobarbituric acid; FRAP, ferric reducing/antioxidant power; AChE, acetylcholinesterase.

## Download English Version:

## https://daneshyari.com/en/article/7754019

Download Persian Version:

https://daneshyari.com/article/7754019

<u>Daneshyari.com</u>