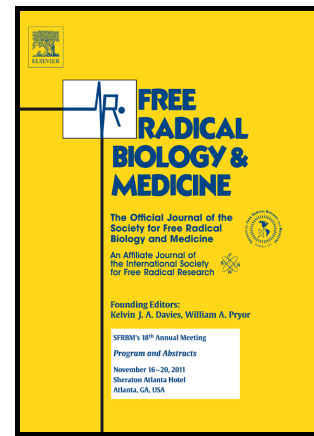


Author's Accepted Manuscript

Free radical production and antioxidant status in brain cortex non-synaptic mitochondria and synaptosomes at alcohol hangover onset

Analia G. Karadayian, Gabriela Malanga, Analia Czerniczyniec, Paulina Lombardi, Juanita Bustamante, Silvia Lores-Arnaiz



www.elsevier.com

PII: S0891-5849(17)30547-6
DOI: <http://dx.doi.org/10.1016/j.freeradbiomed.2017.04.344>
Reference: FRB13319

To appear in: *Free Radical Biology and Medicine*

Received date: 27 January 2017
Revised date: 21 April 2017
Accepted date: 23 April 2017

Cite this article as: Analia G. Karadayian, Gabriela Malanga, Analia Czerniczyniec, Paulina Lombardi, Juanita Bustamante and Silvia Lores-Arnaiz Free radical production and antioxidant status in brain cortex non-synaptic mitochondria and synaptosomes at alcohol hangover onset, *Free Radical Biology and Medicine*, <http://dx.doi.org/10.1016/j.freeradbiomed.2017.04.344>

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 galley proof before it is published in its final citable 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

**Free radical production and antioxidant status in brain cortex
non-synaptic mitochondria and synaptosomes at alcohol hangover
onset**

Analía G. Karadayian^{1,2}, Gabriela Malanga^{1,2}, Analía Czerniczyniec^{1,2},
Paulina Lombardi^{1,2}, Juanita Bustamante³, Silvia Lores-Arnaiz^{1,2*}

¹ Universidad de Buenos Aires, Facultad de Farmacia y Bioquímica, Cátedra de Fisiología, Buenos Aires, Argentina.

² CONICET-Universidad de Buenos Aires, Instituto de Bioquímica y Medicina Molecular (IBIMOL) Buenos Aires, Argentina.

³ Universidad Abierta Interamericana, Centro de Altos Estudios en Ciencias de la Salud, Buenos Aires, Argentina.

***Corresponding author.** Instituto de Bioquímica y Medicina Molecular, Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires, Junín 956, 2º piso, C1113AAD Buenos Aires, Argentina, slarnaiz@ffyb.uba.ar

ABSTRACT

Alcohol hangover (AH) is the pathophysiological state after a binge-like drinking. We have previously demonstrated that AH induced bioenergetics impairments in a total fresh mitochondrial fraction in brain cortex and cerebellum. The aim of this work was to determine free radical production and antioxidant systems in non-synaptic mitochondria and synaptosomes in control and hangover animals. Superoxide production was not

Download English Version:

<https://daneshyari.com/en/article/5502072>

Download Persian Version:

<https://daneshyari.com/article/5502072>

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