## Accepted Manuscript

Transcranial direct current stimulation improves long-term memory deficits in an animal model of attention-deficit/hyperactivity disorder and modulates oxidative and inflammatory parameters

Douglas Teixeira Leffa, Bruna Bellaver, Artur Alban Salvi, Carla de Oliveira, Wolnei Caumo, Eugenio Horacio Grevet, Felipe Fregni, André Quincozes-Santos, Luis Augusto Rohde, Iraci L.S. Torres

PII: S1935-861X(18)30102-5

DOI: 10.1016/j.brs.2018.04.001

Reference: BRS 1227

- To appear in: Brain Stimulation
- Received Date: 27 July 2017
- Revised Date: 26 March 2018

Accepted Date: 2 April 2018

Please cite this article as: Leffa DT, Bellaver B, Salvi AA, de Oliveira C, Caumo W, Grevet EH, Fregni F, Quincozes-Santos A, Rohde LA, Torres ILS, Transcranial direct current stimulation improves long-term memory deficits in an animal model of attention-deficit/hyperactivity disorder and modulates oxidative and inflammatory parameters, *Brain Stimulation* (2018), doi: 10.1016/j.brs.2018.04.001.

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

Transcranial direct current stimulation improves long-term memory deficits in an animal model of attention-deficit/hyperactivity disorder and modulates oxidative and inflammatory parameters

Douglas Teixeira Leffa<sup>a,b,c</sup>, Bruna Bellaver<sup>d</sup>, Artur Alban Salvi<sup>b,c</sup>, Carla de Oliveira<sup>a,b,c</sup>, Wolnei Caumo<sup>a,e</sup>, Eugenio Horacio Grevet<sup>g,h</sup>, Felipe Fregni<sup>f</sup>, André Quincozes-Santos<sup>d</sup>, Luis Augusto Rohde<sup>g,h,i</sup>, Iraci L.S. Torres<sup>a,b,c\*</sup>

<sup>a</sup>Post-Graduate Program in Medicine: Medical Sciences, School of Medicine, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

<sup>b</sup>Animal Experimentation Unit and Graduate Research Group, Hospital de Clínicas de Porto Alegre, Porto Alegre, Brazil

<sup>c</sup>Laboratory of Pain Pharmacology and Neuromodulation: Pre clinical studies - Pharmacology Department, Institute of Basic Health Sciences, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

<sup>d</sup>Biochemistry Department, Institute of Basic Health Sciences, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

<sup>e</sup>Pain and Palliative Care Service, Laboratory of Pain & Neuromodulation, Hospital de Clínicas de Porto Alegre, Universidade Federal do Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brazil. <sup>f</sup>Laboratory of Neuromodulation, Department of Physical Medicine & Rehabilitation, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard University, Boston, United States

<sup>g</sup>Psychiatry Department, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil <sup>h</sup>ADHD Outpatient Program, Hospital de Clínicas de Porto Alegre, Brazil <sup>i</sup>National Institute of Developmental Psychiatry for Children and Adolescents, Brazil

## \*CORRESPONDING AUTHOR:

Iraci LS Torres, PhD Departamento de Farmacologia - ICBS, UFRGS; Rua Sarmento Leite, 500 sala 305 90050-170 - Porto Alegre, RS, Brazil

## دريافت فورى 🛶 متن كامل مقاله

- امکان دانلود نسخه تمام متن مقالات انگلیسی
  امکان دانلود نسخه ترجمه شده مقالات
  پذیرش سفارش ترجمه تخصصی
  امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
  امکان دانلود رایگان ۲ صفحه اول هر مقاله
  امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
  دانلود فوری مقاله پس از پرداخت آنلاین
  پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات
- ISIArticles مرجع مقالات تخصصی ایران