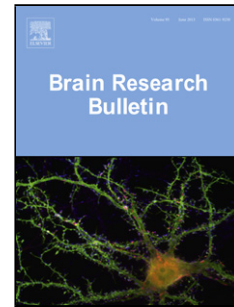


Accepted Manuscript

Title: Body composition, biochemical, behavioral and molecular alterations in overfed rats after chronic exposure to SSRI

Authors: Aline Isabel da Silva, Glauber Rudá F. Braz, Severina Cássia de A. Silva, Anderson Apolonio da S. Pedroza, Nelson Correia de Lima-Júnior, Tércya Lúcida de A. Silva, Claudia Jacques Lagranha



PII: S0166-4328(18)30518-7
DOI: <https://doi.org/10.1016/j.bbr.2018.08.007>
Reference: BBR 11531

To appear in: *Behavioural Brain Research*

Received date: 8-4-2018
Revised date: 25-7-2018
Accepted date: 8-8-2018

Please cite this article as: da Silva AI, Braz GRF, de A. Silva SC, da S. Pedroza AA, de Lima-Júnior NC, de A. Silva TL, Jacques Lagranha C, Body composition, biochemical, behavioral and molecular alterations in overfed rats after chronic exposure to SSRI, *Behavioural Brain Research* (2018), <https://doi.org/10.1016/j.bbr.2018.08.007>

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.

Body composition, biochemical, behavioral and molecular alterations in overfed rats after chronic exposure to SSRI

Aline Isabel da Silva^{a,b,#}; Glauber Rudá F. Braz^{a,b,#}; Severina Cássia de A. Silva^b; Anderson Apolonio da S. Pedroza^b; Nelson Correia de Lima-Júnior^b; Tércya Lúcidí de A. Silva^{a,b}; Claudia Jacques Lagranha^{a,b*}

^aNeuropsychiatry and Behavior Science Graduate Program, Universidade Federal de Pernambuco-UFPE, Recife, PE, Brazil;

^bLaboratory of Biochemistry and Exercise Biochemistry, Department of Physical Education and Sports Science, Universidade Federal de Pernambuco-UFPE, Academic Center of Vitória-CAV, Vitória de Santo Antão, PE, Brazil

#These authors contributed equally to this work

*Correspondent author:

Claudia J Lagranha

Rua Alto do Reservatório, s/n, Bela Vista, Vitória de Santo Antão, PE, Brazil – CEP:55608-680

Núcleo de Educação Física e Ciências do Esporte – UFPE-CAV

Phone/Fax: (+55 81) 35233351

Email: lagranha@hotmail.com

Running title: Energy balance-related alterations after FLX treatment

Highlights

- Fluoxetine treatment altered the pattern of fat mass in overfed rats
- Overfed but not normofed rats reduced food intake after chronic fluoxetine exposure
- Fluoxetine-treated overfed rats improved energy balance-related gene expression

Abstract

Serotonin (5-HT) plays a regulatory role in coordinating the neural circuits regulating energy balance, with differences in both 5-HT availability at the synapse and the activity of 5-HT receptors mediating anorectic (via POMC/CART activation) and orexigenic (via NPY/AgRP activation) responses. In conditions of overweight and obesity the control of energy balance is clearly deregulated, and serotonergic modulation appears to make a significant contribution to weight gain. Fluoxetine (FLX), a selective serotonin reuptake inhibitor (SSRI) that increases 5-HT availability in the synaptic cleft

Download English Version:

<https://daneshyari.com/en/article/8952983>

Download Persian Version:

<https://daneshyari.com/article/8952983>

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