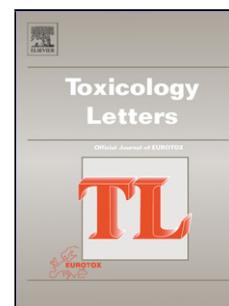


## Accepted Manuscript

Title: Tributyltin impacts in metabolic syndrome development through disruption of angiotensin II receptor signaling pathways in white adipose tissue from adult female rats

Authors: Leandro Ceotto Freitas-Lima, Eduardo Merlo, Marina Campos Zicker, Juliana Maria Navia-Pelaez, Miriane de Oliveira, Luciano dos Santos Aggum Capettini, Célia Regina Nogueira, Adaliene Versiani Matos Ferreira, Sérgio Henrique Sousa Santos, Jones Bernardes Graceli



PII: S0378-4274(18)31826-5  
DOI: <https://doi.org/10.1016/j.toxlet.2018.08.018>  
Reference: TOXLET 10306

To appear in: *Toxicology Letters*

Received date: 18-4-2018  
Revised date: 22-8-2018  
Accepted date: 28-8-2018

Please cite this article as: Ceotto Freitas-Lima L, Merlo E, Campos Zicker M, Navia-Pelaez JM, de Oliveira M, dos Santos Aggum Capettini L, Nogueira CR, Versiani Matos Ferreira A, Sousa Santos SH, Bernardes Graceli J, Tributyltin impacts in metabolic syndrome development through disruption of angiotensin II receptor signaling pathways in white adipose tissue from adult female rats, *Toxicology Letters* (2018), <https://doi.org/10.1016/j.toxlet.2018.08.018>

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.

## Tributyltin impacts in metabolic syndrome development through disruption of angiotensin II receptor signaling pathways in white adipose tissue from adult female rats

**Abbreviated title:** TBT induces metabolic syndrome via AT<sub>1</sub> receptor

Leandro Ceotto Freitas-Lima<sup>1\*#</sup>; Eduardo Merlo<sup>1#</sup>; Marina Campos Zicker<sup>2</sup>; Juliana Maria Navia-Pelaez<sup>3</sup>; Miriane de Oliveira<sup>4</sup>; Luciano dos Santos Aggum Capettini<sup>3</sup>; Célia Regina Nogueira<sup>4</sup>; Adaliene Versiani Matos Ferreira<sup>5</sup>; Sérgio Henrique Sousa Santos<sup>6,7</sup>; Jones Bernardes Graceli<sup>1\*</sup>.

<sup>1</sup>Department of Morphology, Healthy Sciences Center, Federal University of Espírito Santo, Brazil;

<sup>2</sup>Department. of Food Science, Faculty of Pharmacy, Federal University of Minas Gerais, Brazil;

<sup>3</sup>Department of Pharmacology, Biological Sciences Institute, Federal University of Minas Gerais, Brazil;

<sup>4</sup> Department of Internal Medicine, Botucatu School of Medicine, University of São Paulo State, Botucatu, SP- Brazil;

<sup>5</sup>Dept. of Basic Nursing, Nursing School, Federal University of Minas Gerais, Brazil;

<sup>6</sup>Health Science Graduate Program, UNIMONTES, Montes Claros, MG – Brazil;

<sup>7</sup>Institute of Agricultural Sciences, Food Engineering College, Federal University of Minas Gerais, Montes Claros, MG – Brazil.

**#Contribution author:** LCFL and EM contributed equally to the study.

### \*Corresponding authors:

Prof. Dr. Jones Bernardes Graceli

Laboratório de Endocrinologia e Toxicologia Celular, Departamento de Morfologia/CCS, Universidade Federal do Espírito Santo.

Av. Marechal Campos, 1468, Prédio do básico I, sala 5, 290440-090 Vitória, ES, Brasil.

Tel.: +55-27-33357540/ 7369; Fax: +55-27-33357358.

E-mail: [jbgraceli@gmail.com](mailto:jbgraceli@gmail.com)

### Highlights

- - TBT disrupted the proper functioning of the white adipose tissue (WAT) in the adult female rats.
- - TBT leads to abnormal adipogenesis dependent at least in part of renin-angiotensin system (RAS) impairment in the adult female rats.
- - Abnormal WAT-RAS signaling as result of TBT exposure are associated with metabolic syndrome development.

Download English Version:

<https://daneshyari.com/en/article/10158619>

Download Persian Version:

<https://daneshyari.com/article/10158619>

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