

## Accepted Manuscript

Title: Mitochondria targeting by environmental stressors:  
implications for redox cellular signaling

Authors: Chuck Blajszczak, Marcelo G. Bonini

PII: S0300-483X(17)30202-0  
DOI: <http://dx.doi.org/doi:10.1016/j.tox.2017.07.013>  
Reference: TOX 51919

To appear in: *Toxicology*

Received date: 20-4-2017  
Revised date: 22-6-2017  
Accepted date: 21-7-2017



Please cite this article as: Blajszczak, Chuck, Bonini, Marcelo G., Mitochondria targeting by environmental stressors: implications for redox cellular signaling. *Toxicology* <http://dx.doi.org/10.1016/j.tox.2017.07.013>

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.

# **Mitochondria targeting by environmental stressors: implications for redox cellular signaling**

Chuck Blajszczak and Marcelo G. Bonini

Departments of Medicine and Pathology

**§Correspondence to:**

**Marcelo G. Bonini, Ph.D.**

**Departments of Medicine, Pathology and Pharmacology**

**University of Illinois at Chicago, UIC**

**909 S. Wolcott Ave, COMRB 1131**

**Chicago, IL, 60612**

**Phone – (312) 355-5948**

**Email – mbonini@uic.edu**

## **ABSTRACT**

Mitochondria are cellular powerhouses as well as metabolic and signaling hubs regulating diverse cellular functions, from basic physiology to phenotypic fate determination. It is widely accepted that reactive oxygen species (ROS) generated in mitochondria participate in the regulation of cellular signaling, and that some mitochondria chronically operate at a high ROS baseline. However, it is not completely understood how mitochondria adapt to persistently high ROS states and to environmental stressors that disturb the redox balance. Here we will review

Download English Version:

<https://daneshyari.com/en/article/8553042>

Download Persian Version:

<https://daneshyari.com/article/8553042>

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