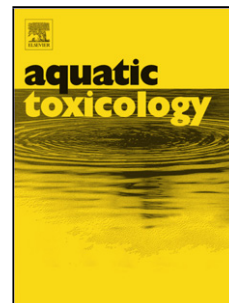


Accepted Manuscript

Title: Metoprolol induces oxidative damage in common carp
(*Cyprinus carpio*)

Authors: Héctor Martínez-Rodríguez, Kingsley Donkor,
Sharon Brewer, Marcela Galar-Martínez, Nely
SanJuan-Reyes, Hariz Islas-Flores, Livier Sánchez-Aceves,
Armando Elizalde-Velázquez, Leobardo Manuel
Gómez-Oliván



PII: S0166-445X(18)30136-X
DOI: <https://doi.org/10.1016/j.aquatox.2018.02.012>
Reference: AQTOX 4860

To appear in: *Aquatic Toxicology*

Received date: 5-10-2017
Revised date: 7-2-2018
Accepted date: 14-2-2018

Please cite this article as: Martínez-Rodríguez, Héctor, Donkor, Kingsley, Brewer, Sharon, Galar-Martínez, Marcela, SanJuan-Reyes, Nely, Islas-Flores, Hariz, Sánchez-Aceves, Livier, Elizalde-Velázquez, Armando, Gómez-Oliván, Leobardo Manuel, Metoprolol induces oxidative damage in common carp (*Cyprinus carpio*). *Aquatic Toxicology* <https://doi.org/10.1016/j.aquatox.2018.02.012>

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.

Metoprolol induces oxidative damage in common carp (*Cyprinus carpio*)

Héctor Martínez-Rodríguez¹, Kingsley Donkor², Sharon Brewer², Marcela Galar-Martínez³, Nely SanJuan-Reyes¹, Hariz Islas-Flores¹, Livier Sánchez-Aceves¹, Armando Elizalde-Velázquez¹, Leobardo Manuel Gómez-Oliván^{1*}

¹Laboratorio de Toxicología Ambiental, Facultad de Química, Universidad Autónoma del Estado de México. Paseo Colón intersección Paseo Tollocan s/n. Col. Residencial Colón, 50120 Toluca, Estado de México, México.

² Department of Chemistry, Faculty of Science, Thompson Rivers University, 805 TRU way, Kamloops, BC Canada V2C 0C8, P: 250.828.5400.

³ Laboratorio de Toxicología Acuática, Departamento de Farmacia, Escuela Nacional de Ciencias Biológicas, Instituto Politécnico Nacional. Unidad Profesional Adolfo López Mateos, Av. Wilfrido Massieu Esq. Cda. Miguel Stampa S/N, Delegación Gustavo a. Madero. México, DF, México. C.P. 07738.

*Corresponding author:

Laboratorio de Toxicología Ambiental, Facultad de Química, Universidad Autónoma del Estado de México. Paseo Colón intersección Paseo Tollocan s/n. Col. Residencial Colón, 50120 Toluca, Estado de México, Mexico. Tel.: (52) 7222173890; fax: (52) 7222173890; e-mail: lmgomezo@uaemex.mx; lgolivan74@gmail.com

Download English Version:

<https://daneshyari.com/en/article/8883828>

Download Persian Version:

<https://daneshyari.com/article/8883828>

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