

Accepted Manuscript

Permethrin induces histological and cytological changes in the midgut of the predatory bug, *Podisus nigrispinus*

Luis Carlos Martínez, Angelica Plata-Rueda, Guilherme da Silva Neves, Wagner Gonzaga Gonçalves, José Cola Zanuncio, Hakan Bozdoğan, José Eduardo Serrão



PII: S0045-6535(18)31609-6

DOI: 10.1016/j.chemosphere.2018.08.134

Reference: CHEM 22052

To appear in: *Chemosphere*

Received Date: 07 May 2018

Accepted Date: 26 August 2018

Please cite this article as: Luis Carlos Martínez, Angelica Plata-Rueda, Guilherme da Silva Neves, Wagner Gonzaga Gonçalves, José Cola Zanuncio, Hakan Bozdoğan, José Eduardo Serrão, Permethrin induces histological and cytological changes in the midgut of the predatory bug, *Podisus nigrispinus*, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.08.134

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.

**Permethrin induces histological and cytological changes in the midgut of the predatory
bug, *Podisus nigrispinus***

Luis Carlos Martínez^a, Angelica Plata-Rueda^b, Guilherme da Silva Neves^a, Wagner Gonzaga
Gonçalves^a, José Cola Zanuncio^c, Hakan Bozdoğan^d, José Eduardo Serrão^{a*}

^a Departamento de Biologia Geral, Universidade Federal de Viçosa, 36570-000, Viçosa,
Minas Gerais, Brasil; lc.martinez@outlook.com; jeserrao@ufv.br

^b Instituto de Ciências Agrárias, Universidade Federal de Viçosa, 38810-000, Viçosa, Minas
Gerais, Brasil; angelicaplata@yahoo.com.mx

^c Departamento de Entomologia, Universidade Federal de Viçosa, 36570-000, Viçosa, Minas
Gerais, Brasil; zanuncio@ufv.br

^d Ahi Evran University, TBMYO, 40100, Kirsehir, Turkey; hakan.bozdogan@ahievran.edu.tr

Corresponding author: José Eduardo Serrão, Departamento de Biologia Geral, Universidade
Federal de Viçosa, 36570-000 Viçosa, MG, Brasil; Tel: + 55 31 3899-4012; Fax: + 55 31
3899-2108 E-mail: jeserrao@ufv.br

Download English Version:

<https://daneshyari.com/en/article/10130217>

Download Persian Version:

<https://daneshyari.com/article/10130217>

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