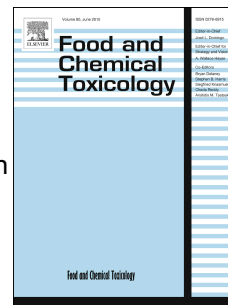


# Accepted Manuscript

Antioxidant, anti-inflammatory and synergistic anti-hyperglycemic effects of Malaysian propolis and metformin in streptozotocin-induced diabetic rats

Victor Udo Nna, Ainul Bahiyah Abu Bakar, Md Rizman, Md Lazin, Md Lazim, Mahaneem Mohamed



PII: S0278-6915(18)30473-3

DOI: [10.1016/j.fct.2018.07.028](https://doi.org/10.1016/j.fct.2018.07.028)

Reference: FCT 9913

To appear in: *Food and Chemical Toxicology*

Received Date: 30 May 2018

Revised Date: 23 June 2018

Accepted Date: 15 July 2018

Please cite this article as: Nna, V.U., Abu Bakar, A.B., Rizman, M., Lazin, M., Lazim, M., Mohamed, M., Antioxidant, anti-inflammatory and synergistic anti-hyperglycemic effects of Malaysian propolis and metformin in streptozotocin-induced diabetic rats, *Food and Chemical Toxicology* (2018), doi: 10.1016/j.fct.2018.07.028.

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.

**Antioxidant, anti-inflammatory and synergistic anti-hyperglycemic effects of Malaysian propolis and metformin in streptozotocin-induced diabetic rats**

Victor Udo Nna<sup>1,2</sup>, Ainul Bahiyah Abu Bakar<sup>1</sup>, Md Rizman Md Lazin @ Md Lazim<sup>1</sup>, Mahaneem Mohamed<sup>1,3\*</sup>

<sup>1</sup>Department of Physiology, <sup>3</sup>Unit of Integrative Medicine, School of Medical Sciences, Universiti Sains Malaysia, 16150, Kelantan, Malaysia.

<sup>2</sup>Department of Physiology, Faculty of Basic Medical Sciences, College of Medical Sciences, University of Calabar, P.M.B. 1115, Calabar, Cross River State, Nigeria.

**Running title:** Malaysian propolis and metformin mitigate DM

**\*Corresponding author's Name:** Mahaneem Mohamed

**Corresponding author's Address:** Department of Physiology & Unit of Integrative Medicine, School of Medical Sciences, Universiti Sains Malaysia, 16150, Kelantan, Malaysia

**Corresponding author's Phone:** +60 9-7676176

**Corresponding author's Email:** [mahaneem@usm.my](mailto:mahaneem@usm.my)

**Keywords:** Antioxidant; diabetes; inflammation; Malaysian propolis; metformin

Download English Version:

<https://daneshyari.com/en/article/8546550>

Download Persian Version:

<https://daneshyari.com/article/8546550>

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