

OPEN ACCESS

APPROVED BY

Frontiers Editorial Office, Frontiers Media SA, Switzerland

*CORRESPONDENCE

Dani Sukkar

Jairo Falla-Angel

RECEIVED 15 September 2023 ACCEPTED 18 September 2023 PUBLISHED 25 September 2023

CITATION

Sukkar D, Kanso A, Laval-Gilly P and Falla-Angel J (2023) Corrigendum: A clash on the Toll pathway: competitive action between pesticides and zymosan A on components of innate immunity in *Apis mellifera*. *Front. Immunol.* 14:1294963. doi: 10.3389/fimmu.2023.1294963

COPYRIGHT

© 2023 Sukkar, Kanso, Laval-Gilly and Falla-Angel. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

Corrigendum: A clash on the Toll pathway: competitive action between pesticides and zymosan A on components of innate immunity in *Apis mellifera*

Dani Sukkar^{1,2*}, Ali Kanso², Philippe Laval-Gilly¹ and Jairo Falla-Angel^{1*}

¹Université de Lorraine, INRAE, LSE, F-54000 Nancy, France, ²Biology Department, Faculty of Sciences I, Lebanese University, Hadath, Lebanon

KEYWORDS

Toll pathway, immune modulation, β -glucan, imidacloprid, amitraz, honeybees, immune genes

A Corrigendum on

A clash on the Toll pathway: competitive action between pesticides and zymosan A on components of innate immunity in *Apis mellifera*

by Sukkar D, Kanso A, Laval-Gilly P and Falla-Angel J (2023) *Front. Immunol.* 14:1247582. doi: 10.3389/fimmu.2023.1247582

In the published article, there was an error in affiliation 1. Instead of "Laboratoire Sols et Environnement, Institut National de Recherche pour l'Agriculture, l'Alimentation et l'Environnement (INRAE), Université de Lorraine, Nancy, France", it should be "Université de Lorraine, INRAE, LSE, F-54000 Nancy, France".

In the published article, there was an error in the published article.

A correction has been made to the **Acknowledgments**. This section previously stated: "We like to thank Dr. Michel Aillerie and Sandhya Malladi for their aid in maintaining the bee hives and Antoine Bonnefoy for technical support."

The corrected section appears below:

"We like to thank Dr. Michel Aillerie and Sandhya Malladi for their aid in maintaining the beehives and Antoine Bonnefoy for technical support. We also thank IUT de Thionville-Yutz (Université de Lorraine) and its Plateforme de Recherche, Transfert de Technologie et Innovation (PRTI) for providing the platform and equipment to perform the experiments."

The authors apologize for these errors and state that they do not change the scientific conclusions of the article in any way. The original article has been updated.

Sukkar et al. 10.3389/fimmu.2023.1294963

Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated

organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.