

# INTERNATIONAL JOURNAL OF TROPICAL INSECT SCIENCE



Published on behalf of *icipe* 





https://doi.org/10.1017/S1742758408287904 Published online by Cambridge University Press

# INTERNATIONAL JOURNAL OF TROPICAL INSECT SCIENCE

#### **Editor-in-Chief**

C Borgemeister, icipe-African Insect Science for Food and Health, Kenya E-mail: ijt@icipe.org

#### **Regional Editors**

Africa: A Hassanali, icipe, Kenya The Americas: C Cardona, Centro Internacional de Agricultura Tropical, Colombia Asia: J Yukawa, Kyushu University, Japan Australia and Oceania: R Jackson, University of Canterbury, New Zealand

#### **Founding Editor**

T R Odhiambo

### IJT Secretariat Manager

C K Sanginga

## **Editorial Board**

R Anderson, University of Winnipeg, Canada N Bosque-Pérez, University of Idaho, USA A Chabi-Olaye, icipe, Kenya C Eardley, Plant Protection Research Institute, South Africa H Fadamiro, Auburn University, USA W A Foster, Ohio State University, USA R Hanna, International Institute of Tropical Agriculture, Benin K L Heong, International Rice Research Institute, The Philippines R Kfir, Plant Protection Research Institute, South Africa Y Kunimi, Tokyo University of Agriculture and Technology, Japan B Le Ru, icipe, Kenya Li Long, Sericulture Research Institute, China P Neves, Universidade Estadual de Londrina, Brazil D Obeng-Ofori, University of Ghana, Ghana A Odulaja, International Atomic Energy Agency, Austria Omkar, University of Lucknow, India W A Overholt, University of Florida, USA J A Pickett, Rothamsted International, UK D Premachandra, University of Ruhuna, Sri Lanka J Romeis, Agroscope Reckenholz-Tänikon Research Station ART, Switzerland F Schulthess, icipe, Kenya M Sétamou, United States Department of Agriculture-Agricultural Research Service, USA A van Huis, Wageningen University, The Netherlands F Vega, United States Department of Agriculture-Agricultural Research Service, USA

#### Submission of Manuscripts

One hard copy of the manuscript plus a CD and artwork or an electronic version, preferably in Microsoft Word, should be sent to: The Editor-in-Chief, International Journal of Tropical Insect Science, PO Box 72913-00200 Nairobi, Kenya, Fax:+254-(20)-8632001/2, E-mail: ijt@icipe.org

#### Full Notes for Authors are available from:

journals.cambridge.org/jti, and an abbreviated version is printed at the back of this issue.

#### Subscriptions

International Journal of Tropical Insect Science (ISSN 1742-7584) is published four times a year in March, June, September and December. The subscription price for institutions of Volume 28 (2008) which includes electronic access and delivery by air is £262 (US \$480 in the USA, Canada and Mexico); online subscription for institutions is £214 (US \$392 in the USA, Canada and Mexico). Single parts are £69 (US \$126 in the USA, Canada and Mexico), plus postage. Claims for missing issues should be made immediately on receipt of the subsequent issue to Cambridge University Press.

https://doi.org/10.1017/S1742758408287904 Published online by Cambridge University Press

Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publisher: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 100 Brook Hill Drive, West Nyack, New York, 10994-2133. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Japanese prices for institutions are available from Kinokuniya Company Ltd, P. O. Box 55, Chitose, Tokyo 156, Japan.

Copies of the journal for subscribers in the USA, Canada and Mexico are sent by air to New York to arrive with minimum delay. Periodicals postage paid at New York and at additional mailing offices. Postmaster: send address changes in the USA, Canada and Mexico to: International Journal of Tropical Insect Science, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133.

#### Advertising

Advertising queries for all parts of the world except the USA, Canada and Mexico to the Journals Advertising Co-ordinator: Rebecca Curtis, ad\_sales@cambridge.org Address enquiries in the USA, Mexico and Canada only to: journals\_advertising@cup.org

#### Copying

This journal is registered with the Copyright Clearance Centre, 222 Rosewood Drive, Danvers, MA 01923, USA. Organizations in the USA who are also registered with C. C. C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of U. S. Copyright law) subject to promotional or commercial purposes. Code 1742-7584/2008 \$16.00. ISI Tear Sheet Service, 3501 Market Street, Philadelphia, PA 19104, USA is authorized to supply single copies of separate articles for private use only. Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions. For all other use, permission should be sought from the UK or American branch of Cambridge University Press.

International Journal of Tropical Insect Science is abstracted/indexed in: CAB Abstracts, BIOSIS, Zoological Record, Chemical Abstracts, The African Book Publishing Record, TROPAG & RURAL Abstracts, IBIDS database and the FAO AGRIS database.

#### Internet Access

The online edition (EISSN 1742-7592) is available at: journals.cambridge.org/jti

with free table of contents alerts (upon registration).

Main cover image: The coffee berry borer (Hypothenemus hampei) by N. Mwanga Komeri. This small beetle is native to Africa and the no. 1 pest of coffee world-wide, affecting farmers in over 70 countries of Africa, Latin America and Asia. Parasitoids of this pest, native to Africa, have been used for biological control in Latin America and Asia.

Smaller images: Courtesy of G. Goergen, IITA.

#### CAMBRIDGE UNIVERSITY PRESS

The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK

32 Avenue of the Americas, New York, NY 10013-2473, USA 477 Williamstown Road, Port Melbourne VIC 3207, Australia

Printed by Latimer Trend, Plymouth, UK.

# ©icipe 2009. All rights reserved.

Published by Cambridge University Press on behalf of icipe.