Online submission at: www.editorialmanager.com/ber

December 2010

Bulletin of Volume 100 Issue 6 ember 2010



ISSN 0007-4853

/ Cambridge University Pr

ished online

Bulletin of Entomological Research

journals.cambridge.org/ber

Aims and Scope

The aims of *Bulletin of Entomological Research* are to further our global knowledge of entomology through the generalisation of research findings rather than providing more entomological exceptions. *Bulletin* publishes high-quality and original research papers, 'critiques' and review articles concerning insects, mites, ticks or other arthropods of economic importance in agriculture, forestry, stored products, biological control, medicine, animal health and natural resource management. The scope of papers addresses the biology, ecology, behaviour, physiology and systematics of individuals and populations. This includes the interactions between species (plants, hosts for parasites, natural enemies and whole communities), novel methodological developments, including molecular biology, in an applied context. *Bulletin* does not publish the results of spray trials.

Bulletin of Entomological Research is published bimonthly by Cambridge University Press

Editor-in-Chief

Professor Bill Symondson

School of Biosciences, Cardiff University, Cardiff CF10 3TL, UK Email: entomology@cambridge.org

Subject Editors

Dr N. Agusti, IRTA, Spain

Dr T. Backeljau, Royal Belgian Institute of Natural Sciences, Belgium

- Professor J.S. Bale, University of Birmingham, UK
- Dr P. Billingsley, University of Aberdeen, UK
- Dr D.A. Bohan, Rothamsted Research, Hertfordshire, UK

Dr C. Borgemeister, International Centre of Insect Physiology and Ecology (ICIPE), Kenya

- Dr Chen Xue-Xin, Zhejiang University, China
- Dr P.J. De Barro, CSIRO Entomology, Indooroopilly, Australia
- Dr A.P.G. Dowling, University of California, USA
- Professor D. Giga, Bulawayo, Zimbabwe
- Dr D. Gillespie, Agriculture and Agri-Food Canada, Agassiz, B.C., Canada
- Dr M. Greenstone, Invasive Insect Biocontrol & Behavior Laboratory, Beltsville, USA
- Professor G. Gurr, Charles Sturt University, NSW, Australia
- Professor D.R. Hall, University of Greenwich, UK
- Dr J.D. Harwood, University of Kentucky, USA
- Dr N.P. Havill, USDA Forest Service, Northern
- Research Station, Hamden, USA
- Dr D. Hawthorne, University of Maryland, USA
- Dr T.H. Jones, Cardiff University, UK
- Dr J.D. Knight, Imperial College, Ascot, UK

- Dr J. Krzywinski, Liverpool School of Tropical Medicine, UK
- Dr O. Kwon, Kyungpook National University, Korea
- Professor H.D. Loxdale, Friedrich-Schiller University, Jena, Germany
- Dr S. Morin, The Robert H. Smith Faculty of Agriculture, Food and Environment Rehovot, Israel
- Dr Liu Shu-Sheng, Zhejiang University, China
- Dr G. Port, University of Newcastle Upon Tyne, UK
- Dr S. Potts, University of Reading, UK
- Dr G. Purvis, University College Dublin, Ireland
- Professor G.H.L. Rothschild, Offham, Kent, UK
- Dr W.E. Snyder, Washington State University, USA
- Dr A.J.A. Stewart, University of Sussex, Brighton, UK
- Dr S. Tanaka, National Institute of Agrobiological Sciences at Ohwashi, Japan
- Dr S.J. Torr, University of Greenwich, Kent, UK
- Professor H. Townson, Liverpool School of Tropical Medicine, UK
- Dr M. Traugott, University of Innsbruck, Austria
- Dr M. Virant-Doberlet, National Institute of Biology, Ljubljana, Slovenia
- Dr J. Vontas, University of Crete, Greece
- Dr B.A. Woodcock, University of Reading, UK

© Cambridge University Press 2010.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

Cover image: Wood cricket (*Nemobius sylvestris*) female, Briddlesford Copse, Isle of Wight, UK. Picture taken by N.C. Brouwers.

for information. Cover image: Wood cricket (*Nemobius sylvestris*) female, Briddlesford Copse, Isle of Wight, UK.

Bulletin of Entomological Research

Volume 100 Issue 6 December 2010

Research Papers N.C. Brouwers and A.C. Newton Movement analyses of wood cricket (<i>Nemobius sylvestris</i>) (Orthoptera: Gryllidae)	623
K.M. Barnes, D.E. Gennard and R.A. Dixon An assessment of the antibacterial activity in larval excretion/secretion of four species of insects recorded in association with corpses, using <i>Lucilia sericata</i> Meigen as the marker species	635
P. Moyal, B. Le Ru, D. Conlong, D. Cugala, B. Defabachew, T. Matama-Kauma, B. Pallangyo and J. Van den Berg Systematics and molecular phylogeny of two African stem borer genera, <i>Sciomesa</i> Tams & Bowden and <i>Carelis</i> Bowden (Lepidoptera: Noctuidae)	641
A. Sciarretta, Getachew Tikubet, J. Baumgärtner, Melaku Girma and P. Trematerra Spatial clustering and associations of two savannah tsetse species, <i>Glossina morsitans submorsitans</i> and <i>Glossina pallidipes</i> (Diptera: Glossinidae), for guiding interventions in an adaptive cattle health management framework	661
K.S. Herbert, P.A. Umina, P.J. Mitrovski, K.S. Powell, K. Viduka and A.A. Hoffmann Clone lineages of grape phylloxera differ in their performance on <i>Vitis vinifera</i>	671
J.L. Pereira, M.C. Picanço, E.J.G. Pereira, A.A. Silva, A. Jakelaitis, R.R. Pereira and V.M. Xavier Influence of crop management practices on bean foliage arthropods	679
D.C. Peck and D. Olmstead Neonicotinoid insecticides disrupt predation on the eggs of turf-infesting scarab beetles	689
E. Blanchet, L. Blondin, P.A. Gagnaire, A. Foucart, J.M. Vassal and M. Lecoq Multiplex PCR assay to discriminate four neighbouring species of the <i>Calliptamus</i> genus (Orthoptera: Acrididae) from France	701
P. Chiu-Alvarado, J. Valle-Mora and J.C. Rojas Chemical cues from the coffee berry borer influence the locomotory behaviour of its bethylid parasitoids	707
T.Z. Persson Vinnersten, J.O. Lundström, M.L. Schäfer, E. Petersson and J. Landin A six-year study of insect emergence from temporary flooded wetlands in central Sweden, with and without Bti-based mosquito control	715
A.P. Michel, W. Zhang and M.A. Rouf Mian Genetic Diversity and Differentiation among Laboratory and Field Populations of the Soybean Aphid, <i>Aphis glycines</i>	727
J.A. Stenberg and P.A. Hambäck Host species critical for offspring fitness and sex ratio for an oligophagous parasitoid: implications for host coexistence	735
R. Tedeschi and F. Nardi DNA-based discrimination and frequency of phytoplasma infection in the two hawthorn-feeding species, <i>Cacopsylla melanoneura</i> and <i>Cacopsylla affinis</i> , in northwestern Italy	741
Subscribing organisations are encouraged to conv and distribute this	

Subscribing organisations are encouraged to copy and distribute this table of contents for non-commerical purposes

Bulletin of Entomological Research Volume 100 2010

ISSN: 0007–4853

journals.cambridge.org/ber

Publishing, Production, Marketing, and Subscription Sales Office: Cambridge University Press The Edinburgh Building Shaftesbury Road Cambridge CB2 8RU UK

For Customers in North America:

Cambridge University Press Journals Fulfillment Dept 100 Brook Hill Drive West Nyack New York 10994-2133 USA

Publisher: Katy Christomanou

Bulletin of Entomological Research is an international journal published bimonthly by Cambridge University Press in February, April, June, August, October and December.

Subscription information:

Subscription rates for Volume 100, 2010 (6 issues):

Print and electronic access: £806 (UK), (USA, Canada and Mexico US \$1560)

Electronic-only price: £640 (UK), (USA, Canada and Mexico US \$1245)

Print only: £755 (UK), (USA, Canada and Mexico US \$1455)

The online edition is available at www.journals. cambridge.org/ber with free table of contents alert (upon registration).

Any **supplements** to this journal published in the course of the annual volume are normally supplied to subscribers at no extra charge.

Back Volumes are available. Please contact Cambridge University Press for further information.

Claims for non-receipt of journal issues will be considered on their merit and only if the claim is received within six months of publication. Replacement copies supplied after this date will be chargeable. US Postmasters: please send address corrections to Bulletin of Entomological Research Cambridge University Press 100 Brook Hill Drive West Nyack New York 10994-2133 USA

Information for Authors

Manuscripts should be submitted online at http:// www.editorialmanager.com/ber. New users should register before submitting a manuscript. Further information about submission is available from the publisher at the given address and is printed on the inside back cover.

Offprints: The author (or main author) of an accepted paper will receive a free PDF of their paper. Paper offprints are available for a fee and should be ordered at proof stage. No page charges are levied by this journal.

Copying: This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. Organisations in the USA who are registered with the CCC may therefore copy material (beyond the limits permitted by sections 107 and 108 of USA copyright law) subject to payment to the CCC of the per copy fee of \$16.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0007–4853/2010/\$16.00. Organisations authorised by the Copyright Licensing Agency may also copy material subject to the usual conditions. *For all other use*, permission must be sought from Cambridge or the American Branch of Cambridge University Press.

Disclaimer: The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable, but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk.

Cambridge University Press does not accept responsibility for any trade advertisement included in this publication.

Typeset by SR Nova Pvt Ltd., Bangalore, India, and printed by Latimer Trend, Plymouth, UK.