Research Papers

P.A. Eliopoulos, A. Kapranas, E.G. Givropoulou and I.C. Hardy
Reproductive efficiency of the betylid wasp Cephalonomia tarsalis: the influence of spatial structure and host density
139

T.J. Zhang, G.C. Zhang, F.F. Zeng, C.X. Lin and J.J. Yao
Insect-like peptides regulate vitellogenesis and oviposition in the green lacewing, Chrysopa septempunctata
148

I. Juric, W. Salzburger and O. Balmer
Spread and global population structure of the diamondback moth Plutella xylostella (Lepidoptera: Plutellidae) and its larval parasitoids Diaeretiinae and Diaeretiinae (Hymenoptera: Ichneumonidae) based on mtDNA
155

K. Kawaue, S. Sugeno, A. Mochizuki and S. Nakamura
Pheromone increases reproductive performance but does not decrease survival in female Brontispa longissima
165

G.H. Baker and C.R. Tann
Long-term changes in the numbers of Helicoverpa punctigera (Lepidoptera: Noctuidae) in a cotton production landscape in northern New South Wales, Australia
174

G.H. Baker and C.R. Tann
Broad-scale suppression of cotton bollworm, Helicoverpa armigera (Lepidoptera: Noctuidae), associated with Bt cotton crops in Northern New South Wales, Australia
188

D.B. Silva, V.H.P. Bueno, F.J. Calvo and J.C. van Lenteren
Do nymphs and adults of three Neotropical zoophytophagous mirids damage leaves and fruits of tomato?
200

A. Lukowski, M.J. Giersch, U. Walczak, E. Baraniak and P. Kowalewski
Light conditions affect the performance of Spisula senhousiana on its native host Prunus padus and the alien Prunus serotina
208

S.E. Sanni, M. Bay, I. Ghaithane, S. El Messoussi, A. Zitouni, A. El Seraine and M. Barakat
Introduction of a Moroccan strain of Staphylococcus phasciatus (Gh-37) on larvae, pupae and adults of the Mediterranean fruit fly Ceratitis capitata (Diptera: Tephritidae)
217

S. Fischer, M.S. De Majo, L. Quiroga, M. Paez and N. Schweigmann
Larval population and host specialization of the mosquito Aedes aegypti (Diptera: Culicidae) in temperate Argentina
225

G. Hsu, L. Fan, Y. Zhao, X. Zhang, F. Wang, Y. Yu, W. Fan, Q. Liu, S. Zhang and M. Li
Chemical investigations of volatile kairomones produced by the parasitoid Cotesia glomerata (Hymenoptera: Braconidae) and the alien Cotesia goyazensis (Hymenoptera: Braconidae)
234

N.P. Havill, J. Elliott, J.G. Kitching, R.M. Andersen, S.B. Hagen, Hannah J. Broadley, G.J. Bettridge and A. Caccini
Assessment of the hybridization between non-native winter moth, (Sphecodoptera brumata (Lepidoptera: Geometridae)), and native Bracken spittlebug, (Sphecodoptera brumata (Lepidoptera: Geometridae), in the Northeastern United States, assessed with novel microsatellites and SNPs
241

Z. Shi, B. Liang and Y. Hou
Functional analysis of a DcSST transcript in the immune defence of Oriental fruit fly, Bactrocera dorsalis (Hendel) (Diptera: Tephritidae)
251

A.N. Laws and A. Joern
Density mediates grasshopper performance in response to temperature manipulation and predator predation in tallgrass prairie
261

Y. Zheng, R.S. Wu, S. Born and M.H. Chen
Diversity of tortricid moths in apple orchards: evidence for a cryptic species of Grapholita (Lepidoptera: Tortricidae) from China
268
Aims and Scope

Established in 1910, the internationally recognised Bulletin of Entomological Research aims to further global knowledge of entomology through the generalisation of research findings rather than providing more entomological exceptions. The Bulletin publishes high quality and original research papers, critiques and reviews concerning insects 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, with a particular emphasis upon the major current and emerging pests of agriculture, horticulture and forestry, and vectors of human and animal diseases. 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. The Bulletin does not publish the results of pesticide testing or traditional taxonomic revisions.

NOTES FOR AUTHORS

Please see the complete version ("Instructions for Contributors") at journals.cambridge.org/ber

Dr N. Arts, Utrecht, Netherlands
Dr P. Asher, University of Edinburgh, UK
Dr S. Astley, University of York, UK
Dr D. Bailey, University of Oxford, UK
Dr A. Balsalobre-Alvarez, INIA, Madrid, Spain
Dr A. Banerjee, University of Cape Town, South Africa
Dr S. Banerjee, University of Calcutta, India
Dr D. Barbosa, Federal University of Santa Catarina, Brazil
Dr B. Barros-Ferreira, University of Guelph, Canada
Dr R. Baskar, Rajiv Gandhi University of Applied Sciences, India
Dr G. Basset, University of Canterbury, Christchurch, New Zealand
Dr R. Beattie, The Natural History Museum, London, UK
Dr R. Ben-Dov, Hebrew University, Jerusalem, Israel
Dr S. Berg, Swedish University of Agricultural Sciences, Sweden
Dr M. Bernal, Universidad de La Plata, Argentina
Dr A. Bertrand, University of Lyon, France
Dr A. Bertolino, University of Turin, Italy
Dr P. Bertoni, University of California, Berkeley, USA
Dr E. Blacklaw, University College London, UK
Dr N. Blows, University of Cambridge, UK
Dr T. Boccaccini, Royal Agricultural University, UK
Dr J. Bougoure, University of the Witwatersrand, South Africa
Dr T. Bourgeois, Theentomological Research, Belgium
Dr M. Bowles, University of California, Berkeley, USA
Dr L. Boykin, Royal Belgian Institute of Natural Sciences, Belgium
Dr N. Beebe, Oregon State University, USA
Dr S. Baxter, Scottish Agricultural College, UK
Dr Shu-Sheng Liu, Chinese Academy of Sciences, China
Dr C. Lavigne, University of Montreal, Canada
Dr B. Lavandero, Universidad de Talca, Chile
Dr O. Kwon, Seoul National University, South Korea
Dr A. Kapranas, Aristotle University of Thessaloniki, Greece
Dr H. Hesketh, University of Manchester, UK
Dr R. Garrick, University of New South Wales, Australia
Dr P. Cunningham, University of Queensland, Australia
Dr E. Gray, University of Auckland, New Zealand
Dr M. Yazdani, Universiti Kebangsaan Malaysia, Malaysia
Dr S. L. Wee, Universiti Kebangsaan Malaysia, Malaysia
Dr M. J. Dear, University of Melbourne, Australia
Dr M. J. Dear, University of Melbourne, Australia
Dr M. J. Dear, University of Melbourne, Australia
Dr M. J. Dear, University of Melbourne, Australia
Dr N. Arts, Utrecht, Netherlands
Dr P. Asher, University of Edinburgh, UK
Dr S. Astley, University of York, UK
Dr D. Bailey, University of Oxford, UK
Dr A. Balsalobre-Alvarez, INIA, Madrid, Spain
Dr A. Banerjee, University of Cape Town, South Africa
Dr S. Banerjee, University of Calcutta, India
Dr D. Barbosa, Federal University of Santa Catarina, Brazil
Dr R. Baskar, Rajiv Gandhi University of Applied Sciences, India
Dr G. Basset, Swedish University of Agricultural Sciences, Sweden
Dr M. Bernal, Universidad de La Plata, Argentina
Dr A. Bertolino, University of Lyon, France
Dr A. Bertrand, University of California, Berkeley, USA
Dr E. Blacklaw, University College London, UK
Dr N. Blows, University of Cambridge, UK
Dr T. Boccaccini, Royal Agricultural University, UK
Dr J. Bougoure, University of the Witwatersrand, South Africa
Dr T. Bourgeois, Ljubljana, Slovenia
Dr T. Boulay, INRA, France
Dr J. Bragg, University of Vermont, USA
Dr J. Bradbury, University of Sydney, Australia
Dr L. Brain, University of Oxford, UK
Dr G. Briscoe, University of Otago, New Zealand
Dr S. Briskin, University of California, Berkeley, USA

Salary: Reproductive physiology and national resources management. The scope of papers addresses the biology, ecology, behaviour, physiology and systematics of individuals and populations, with a particular emphasis upon the major current and emerging pests of agriculture, horticulture and forestry, and vectors of human and animal diseases. 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. The Bulletin does not publish the results of pesticide testing or traditional taxonomic revisions.

Bulletin of Entomological Research is published bimonthly by Cambridge University Press

Editor-in-Chief
Dr Paul De Barro
CSIRO Health & Biosecurity, Brisbane, Queensland 4001, Australia

Email: entomology@csiro.au

Subject Editors

Dr N. Agusti, IRSTA, Spain
Dr T. Backeljau, Royal Belgian Institute of Natural Sciences, Belgium
Dr D. Baxter, University of Adelaide, Australia
Dr N. Beebe, University of Queensland, Australia
Dr L. Boykin, University of Western Australia, Australia
Dr C. Chiu, Zhejiang University, China
Dr P. Cunningham, University of Technology, Australia
Dr S. Donner, CSIRO, Ecosystem Sciences, Australia
Dr R. Garrick, University of Mississippi, USA
Dr K. Gols, Wageningen University, The Netherlands
Dr E. Gray, Colorado College, USA
Dr S. Hayward, University of Birmingham, UK
Dr H. Hesketh, Centre for Ecology and Hydrology, UK
Dr H. Hoffmann, CSIRO, Ecosystem Sciences, Australia
Professor M. Isman, University of British Columbia, Canada
Dr T. H. Jones, Cardiff University, UK
Dr A. Kapranaus, Maynooth University, Ireland
Dr V. Kwon, Kyungpook National University, Korea
Dr L. Lavandez, Universidad de Talca, Talca, Chile
Dr C. Lavigne, University of British Columbia, Canada
Dr Shiu-Shing Lai, Zhejiang University, China
Dr S. Macfadyen, CSIRO, Ecosystem Sciences, Australia

Dr N. Y. Meuleng, University of Copenhagen, Denmark
Professor B. Nault, Cornell University, USA
Dr D. Perez-Sapilos, INIBIOTECA, Universidad Veracruzana, Mexico
Dr C. Phillips, AGResearch, New Zealand
Dr R. Raden, University of New England, Australia
Dr C. Robin, University of Melbourne, Australia
Dr E. Roditakis, National Agricultural Research Foundation, Greece
Dr Zhanqiao Sheng, University of Chicago, USA
Professor P. Stevenson, Royal Botanical Gardens, Kent, UK
Dr Denis Thiery, INRA, Bordeaux, France
Dr L. Thomson, University of Melbourne, Australia
Professor P. Trematerra, University of Florence, Italy
Dr M. Virant-Dobilet, National Institute of Biology, Ljubljana, Slovenia
Dr K. Wallin, University of Vermont, USA
Dr S. L. Wee, Universiti Kebangsaan Malaysia, Malaysia
Dr A. Wilby, Lancaster University, UK
Professor L. Winder, UNITED, Auckland, New Zealand
Dr M. Yazdani, University of Adelaide, Australia

BSW 2017

Bulletin of Entomological Research publishes two types of paper:

Full research papers

Reviews

If the referees and editors judge a paper to be of particular significance then it will be fast-tracked for publication.

We also welcome "Letters to the Editor" with comments on recently published papers.

Manuscript Preparation

Language

Manuscripts should be in English.

Manuscript context

Manuscripts should be prepared in Microsoft Word or similar according to the following structure:

Abstract

The text, divided under appropriate headings. Clearly differentiate between primary (bold, large font size), secondary (bold, text font size) and tertiary (italics) headings

Acknowledgements (if any)

References (for further information about presenting references please see below)

Tables, either at the end of the manuscript or as separate files. Tables should be numbered consecutively with Arabic numerals and every table should be mentioned at least once in the text.

Illustrations should be submitted as separate files in TIF or EPS format but captions should be listed at the end of the manuscript text.

Each paper must commence with an accurate, informative abstract. It should not exceed 250 words. A short title should also be provided for use as a running head.

References

References must be based on the name and year system, give full journal titles and conform to the following styles:

Journal paper

{Author’s surname, Author’s initials (2009) Journal title, Volume, pages.}

Proceedings:


Chapter in book:


Peer review

Authors are invited to suggest the names and contact details of at least two potential referees and are asked to provide feedback indicating the content of the report. Authors will be asked to return corrected proofs within 72 hours.

Offprints

Authors will be supplied with an agreement to publish form, and will be asked to return corrected proofs within 72 hours.

Proof

Authors will receive a PDF file of page proofs by email, and will be asked to return corrected proofs within 72 hours.

Copyright

Authors supply the publisher with the copyright to the manuscript, which will be published within 6 months of acceptance. The publisher will hold the copyright for 75 years after the date of publication.

Cover Image: Egg laying of Ceratitis capitata.
Research Papers

P.A. Eliopoulos, A. Kapranas, E.G. Givropoulou and I.C.W. Hardy
Reproductive efficiency of the betylid wasp Cephalonomia tarsalis: the influences of spatial structure and host density 139

Insulin-like peptides regulate vitellogenesis and oviposition in the green lacewing, Chrysopa septempunctata 148

I. Juric, W. Salzburger and O. Balmer
Spread and global population structure of the diamondback moth Plutella xylostella (Lepidoptera: Plutellidae) and its larval parasitoids Diadegma semiclausum and Diadegma fenestrale (Hymenoptera: Ichneumonidae) based on mtDNA 155

K. Kawazu, W. Sugeno, A. Mochizuki and S. Nakamura
Polyandry increases reproductive performance but does not decrease survival in female Brontispa longissima 165

G.H. Baker and C.R. Tann
Long-term changes in the numbers of Helicoverpa punctigera (Lepidoptera: Noctuidae) in a cotton production landscape in northern New South Wales, Australia 174

G.H. Baker and C.R. Tann
Broad-scale suppression of cotton bollworm, Helicoverpa armigera (Lepidoptera: Noctuidae), associated with Bt cotton crops in Northern New South Wales, Australia 188

D.B. Silva, V.H.P. Bueno, F.J. Calvo and J.C. van Lenteren
Do nymphs and adults of three Neotropical zoophytophagous mirids damage leaves and fruits of tomato? 200

A. Łukowski, M.J. Giertych, U. Walczak, E. Baraniak and P. Karolewski
Light conditions affect the performance of Yponomeuta eronymellus on its native host Prunus padus and the alien Prunus serotina 208

S.E. Samri, M. Baz, I. Ghalhane, S. El Messoussi, A. Zitouni, A. El Meziane and M. Barakate
Insecticidal activity of a Moroccan strain of Streptomycyes phaeochromogenes LD-37 on larvae, pupae and adults of the Mediterranean fruit fly, Ceratitis capitata (Diptera: Tephritidae) 217

S. Fischer, M.S. De Majo, L. Quiroga, M. Paez and N. Schweigmann
Long-term spatio-temporal dynamics of the mosquito Aedes aegypti in temperate Argentina 225

G. Zhu, L. Pan, Y. Zhao, X. Zhang, F. Wang, Y. Yu, W. Fan, Q. Liu, S. Zhang and M. Li
Chemical investigations of volatile kairomones produced by Hyphantria cunea (Drury), a host of the parasitoid O aosia cunea Yang 234

N.P. Havill, J. Elkinton, J.C. Andersen, S.B. Hagen, Hannah J. Broadley, G.J. Boettner and A. Caccone
Asymmetric hybridization between non-native winter moth, Operophtera brumata (Lepidoptera: Geometridae), and native Bruce spanworm, Operophtera bruceata, in the Northeastern United States, assessed with novel microsatellites and SNPs 241

Z. Shi, H. Liang and Y. Hou
Functional analysis of a NF-κB transcription factor in the immune defense of Oriental fruit fly, Bactrocera dorsalis Hendel (Diptera: Tephritidae) 251

A.N. Laws and A. Joern
Density mediates grasshopper performance in response to temperature manipulation and spider predation in tallgrass prairie 261

Y. Zheng, R.X. Wu, S. Dorn and M.H. Chen
Diversity of tortricid moths in apple orchards: evidence for a cryptic species of Grapholita (Lepidoptera: Tortricidae) from China 268

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