Bulletin of Entomological Research

Volume 112, 2022 ISSN: 0007–4853

Publishing, Production, Marketing, and

Subscription Sales Office: Cambridge University Press UPH Shaftesbury Road Cambridge CB2 8BS UK

For Customers in North America:

Cambridge University Press Journals Fulfillment Dept 1 Liberty Plaza, Floor 20 New York NY 10006 USA

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

Subscription information:

The subscription rates for Volume 112, 2022 (6 issues):

Print and electronic access: £1738 (UK), (USA, Canada and Mexico US \$2956)

Electronic-only price: £1240 (UK), (USA, Canada and Mexico US \$2110) 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 1 Liberty Plaza, Floor 20 New York NY 10006 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 (ormain 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 0007–4853/2022/\$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.

INSTRUCTIONS FOR AUTHORS

Please find these at: https://www.cambridge.org/core/journals/bulletin-of-entomological-research/information/instructions-contributors

Typeset by Nova Techset Private Limited, Chennai, India. Printed in Great Britain by Bell & Bain Ltd, Glasgow.

Bulletin of Entomological Research

Research Papers

Volume 112 Issue 2 April 2022

Eduardo Engel, Douglas Lau, Wesley A. C. Godoy, Mauricio P. B. Pasini, Josè B. Malaquias, Carlos D. R. Santos, Juliana Pivato and Paulo R. V. da S. Pereira	
Oscillation, synchrony, and multi-factor patterns between cereal aphids and parasitoid populations in southern Brazil	143
Qianqian Meng, Benshui Shu, Shiwei Sun, Ying Wang, Mei Yang, Enhang Zhu, Aiqin Liu, Shengfeng Gao, Yafeng Gou and Zheng Wang	
Selection of reference genes for quantitative real-time PCR normalization in the coffee white stem borer, <i>Xylotrechus quadripes</i> Chevrolat (Coleoptera: Cerambycidae)	151
Ning Kang, Jie Guo, Lingling Jiang, Dongkang Zhang, Qian Zhao and Hongying Hu Biology, parasitoid complex and potential distribution of saxaul's dominant defoliators, <i>Teia dubia</i> (Lepidoptera: Lymantriidae)	162
Bai-Zhong Zhang, Gui-Lei Hu, Liu-Yang Lu, Xi-Ling Chen and Xi-Wu Gao Silencing of <i>CYP6AS160</i> in <i>Solenopsis invicta</i> Buren by RNA interference enhances worker susceptibility to fipronil	171
Drauzio E. N. Rangel, Helen G. Bignayan, Hernani G. Golez, Chad A. Keyser, Edward W. Evans and Donald W. Roberts	
Virulence of the insect-pathogenic fungi <i>Metarbizium</i> spp. to Mormon crickets, <i>Anabrus simplex</i> (Orthoptera: Tettigoniidae)	179
Basman H. Al-Jalely, Penghao Wang, Yalin Liao and Wei Xu	
Identification and characterization of olfactory genes in the parasitoid wasp <i>Diadegma semiclausum</i> (Hellèn) (Hymenoptera: Ichneumonidae)	187
Kèvin Tougeron and Thierry Hance Cascading effects of caffeine intake by primary consumers to the upper trophic level	197
Anamika Koner, Swati Das, Syed Husne Mobarak and Anandamay Barik Short-range attraction and oviposition stimulant of a biocontrol agent, <i>Galerucella placida</i> Baly (Coleoptera: Chrysomelidae) toward weed leaf surface waxes	204
Nayara B. Saraiva, Alexander M. Auad, Edvaldo Barros, Flaviane S. Coutinho, Jorge F. Pereira, Rafael A. Barros, Humberto J. O. Ramos and Maria G. A. Oliveira Proteins from eggs of the spittlebug <i>Mahanarva spectabilis</i> (Hemiptera: Cercopidae) reveal clues about its diapause regulation	219
Carolina Manzano, Eduardo G. Virla, Maria V. Coll Araoz and Erica Luft-Albarracin Ovigeny strategy of the parasitic wasp <i>Cosmocomoidea annulicornis</i> (Hymenoptera: Mymaridae): effect of female age, feeding and host availability on reproductive traits	228
Kay Anantanawat, Alexie Papanicolaou, Kelly Hill and Wei Xu Mediterranean fruit fly genes exhibit different expression patterns between heat and cold treatments	236
Dong-Bin Chen, Ru-Song Zhang, Xiang-Dong Jin, Jian Yang, Peng Li and Yan-Qun Liu First complete mitochondrial genome of <i>Rhodinia</i> species (Lepidoptera: Saturniidae): genome description and phylogenetic implication	243
Amanda Ayala, Jorge Toledo, Gabriela Pèrez-Lachaud, Pablo Liedo and Pablo Montoya Superparasitism and fitness parameters in three native wasp parasitoids (Braconidae: Opiinae) of the Mexican fruit fly. <i>Anastrepha ludens</i> (Diptera: Tephritidae)	253
Jing Yu, Weixing Zhang, Xuepeng Chi, Wenfeng Chen, Zhenfang Li, Ying Wang, Zhenguo Liu,	_>0
The dietary arachidonic acid improved growth and immunity of honey bee (<i>Apis mellifera ligustica</i>)	261
T. V. Prasad, M. Srinivasa Rao, K. V. Rao, S. K. Bal, Y. Muttapa, J. S. Choudhary and V. K. Singh Temperature-based phenology model for predicting the present and future establishment and distribution	
of recently invasive Spodoptera frugiperda (I. E. Smith) in India	271

Cambridge Core For further information about this journal please go to the journal website at: cambridge.org/ber



MIX Paper from responsible sources FSC[®] C007785

