

Mitochondrial sequencing and geometric morphometrics suggest two clades in the <i>Tetragonilla collina</i> (Apidae: Meliponini) population of Thailand A. RATTANAWANNEE, E. JERATTHITIKUL, O. DUANGPAKDEE, B.P. OLDROYD (Thailand, Australia).....	719
Honey bee pathogens in Ghana and the presence of contaminated beeswax M. LLORENS-PICHER, M. HIGES, R. MARTÍN-HERNÁNDEZ, P. DE LA RÚA, I. MUÑOZ, K. AIDOO, E.O. BEMPONG, F. POLKURAF, A. MEANA (Spain, Ghana).....	732
Life-history traits of wild honey bee colonies living in forests around Ithaca, NY, USA T.D. SEELEY (USA)	743
Apitoxin harvest impairs hypopharyngeal gland structure in <i>Apis mellifera</i> honey bees T.S. BOVI, P. ONARI, S.A.A. SANTOS, L.A. JUSTULIN, R.O. ORSI (Brazil)	755
Aging results in a decline in cellular energy metabolism in the trophocytes and oenocytes of worker honeybees (<i>Apis mellifera</i>) C.-Y. LU, Y.-L. CHUANG, C.-Y. HSU (TAIWAN).....	761
An abbreviated SNP panel for ancestry assignment of honeybees (<i>Apis mellifera</i>) N.C. CHAPMAN, A.L. BOURGEOIS, L.D. BEAMAN, J. LIM, B.A. HARPUR, A. ZAYED, M.H. ALLSOPP, T.E. RINDERER, B.P. OLDROYD (Australia, USA, Canada, South Africa).....	776
Protecting a managed bee pollinator against climate change: strategies for an area with extreme climatic conditions and socioeconomic vulnerability T.C. GIANNINI, C. MAIA-SILVA, A.L. ACOSTA, R. JAFFÉ, A.T. CARVALHO, C.F. MARTINS, F.C.V. ZANELLA, C.A.L. CARVALHO, M. HRNCIR, A.M. SARAIVA, J.O. SIQUEIRA, V.L. IMPERATRIZ-FONSECA (Brazil).....	784
Assessing the genetic content of <i>Xylocopa frontalis</i> bees (Apidae, Xylocopini) for sustainable management in pollination services of passion fruit J.A.M. TOLEDO, C.N. JUNQUEIRA, S.C. AUGUSTO, M.C. ARIAS, R.M. BRITO (Brazil)	795
Pollen preferences among the bee species visiting apple (<i>Malus pumila</i>) in New York L. RUSSO, B. DANFORTH (IRELAND, USA)	806
Brood removal or queen caging combined with oxalic acid treatment to control varroa mites (<i>Varroa destructor</i>) in honey bee colonies (<i>Apis mellifera</i>) A. GREGORC, M. ALBURAKI, C. WERLE, P.R. KNIGHT, J. ADAMCZYK (USA, Slovenia).....	821
Tolerance of honey bee adults and larvae toward tyrothricin peptides derived from <i>Brevibacillus parabrevis</i> J. ARNOLD VOSLOO, H. BEIMS, M.H. ALLSOPP, W. VAN RENSBURG, W. VON DER OHE, M. STEINERT, M. RAUTENBACH (South Africa, Germany)	833
Effects of queen mating status, pre-diapause weight and pupae's sex on colony initiation in small-scale rearing of <i>Bombus terrestris</i> G. BOGO, N. DE MANINCOR, A. FISOGNI, M. GALLONI, L. BORTOLOTTI (Italy, France).....	845