

CONTENTS

REVIEWS

- 317 Seasonal adaptations of green lacewings (Neuroptera: Chrysopidae) — M. CANARD
325 Syrphid aphidophagous predators in a food-web context — F. GILBERT
335 Quantifying aphid predation rates of generalist predators in the field — J.D. HARWOOD & J.J. OBRYCKI
351 Intraguild predation among aphidophagous predators — É. LUCAS
365 Foraging in a complex environment — semiochemicals support searching behaviour of the seven spot ladybird — J. PETTERSSON, V. NINKOVIC, R. GLINWOOD, M.A. BIRKETT & J.A. PICKETT
371 The quality of aphids as food for generalist predators: implications for natural control of aphids — S. TOFT

POINTS OF VIEW

- 385 On the assessment of prey suitability in aphidophagous Coccinellidae — J.P. MICHAUD
391 Are we studying too few taxa? Insights from aphidophagous ladybird beetles (Coleoptera: Coccinellidae) — J.J. SLOGGETT

ARTICLES

- 399 Development of a sampling plan for *Myzus persicae* (Hemiptera: Aphidoidea) and its predator *Macrolophus costalis* (Hemiptera: Miridae) on tobacco — C.G. ATHANASSIOU, N.G. KAVALLIERATOS, Ž. TOMANOVIĆ, S. TOMANOVIĆ & M. MILUTINOVIĆ
407 Thermal requirements for development and resource partitioning in aphidophagous guilds — A.F.G. DIXON, V. JAROSÍK & A. HONĚK
413 Evolution of prey specialization in aphidophagous syrphids of the genera *Melanostoma* and *Platycheirus* (Diptera: Syrphidae)
1. Body size, development and prey traits — F. DZIOCK
423 The link between food and reproduction in aphidophagous predators: a case study with *Harmonia axyridis* (Coleoptera: Coccinellidae) — E.W. EVANS & D.I. GUNTHER
431 Role of (E)-β-farnesene in systematic aphid prey location by *Episyphus balteatus* larvae (Diptera: Syrphidae) — F. FRANCIS, T. MARTIN, G. LOGNAY & E. HAUBRUGE
437 Temporal stability of morph frequency in central European populations of *Adalia bipunctata* and *A. decempunctata* (Coleoptera: Coccinellidae) — A. HONĚK, Z. MARTINKOVÁ & S. PEKÁR
443 Long term changes in abundance of *Coccinella septempunctata* (Coleoptera: Coccinellidae) in the Czech Republic — A. HONĚK & Z. MARTINKOVÁ
449 The effects of six species of aphids on some life history parameters of the ladybird *Propylea quatuordecimpunctata* (Coleoptera: Coccinellidae) — P. KALUSHKOV & I. HODEK
453 Summer diapause and winter quiescence of *Hippodamia (Semiadalia) undecimnotata* (Coleoptera: Coccinellidae) in central Greece — P. KATSOYANNOS, D.C. KONTODIMAS & G. STATHAS
459 Seasonal occurrence, distribution and sampling indices for *Myzus persicae* (Hemiptera: Aphidoidea) and its parasitoids (Hymenoptera: Braconidae: Aphidiinae) on tobacco — N.G. KAVALLIERATOS, C.G. ATHANASSIOU, Ž. TOMANOVIĆ, A. SCiarretta, P. TREMATERA & V. ŽIKIĆ
469 Comparative genetic studies of native and introduced Coccinellidae in North America — E.S. KRAFSUR, J.J. OBRYCKI & J.D. HARWOOD
475 Sex ratio shift caused by hyperparasitism in the solitary parasitoid *Lysiphlebus hirticornis* (Hymenoptera: Braconidae: Aphidiinae) — M. MACKAUER & W. VÖLKL
483 Induction of reproductive diapause in *Hippodamia convergens* (Coleoptera: Coccinellidae) hinges on prey quality and availability — J.P. MICHAUD & J.A. QURESHI
489 Rubidium marking of *Aphidius rhopalosiphi* (Hymenoptera: Braconidae) on *Sitobion avenae* (Hemiptera: Aphididae) reared on a diet supplemented with RbCl — F. MURATORI, D. PERREMANS & T. HANCE
495 Ant-aphid interactions in multispecies ant communities: Some ecological and ethological aspects — T.A. NOVGORODOVA
503 The effect of prey availability on ovarian development and oosorption in the ladybird beetle *Harmonia axyridis* (Coleoptera: Coccinellidae) — N. OSAWA
513 Kin recognition and avoidance of kin cannibalism by the larvae of co-occurring ladybirds: a laboratory study — A. PERVEZ, A.K. GUPTA & OMKAR
519 Epigaeal aphidophagous predators and the role of alfalfa as a reservoir of aphid predators for arable crops — X. PONS, E. NÚÑEZ, B. LUMBIERRES & R. ALBAJES
527 Seasonal food of *Ceratomegilla notata* (Coleoptera: Coccinellidae) in mountain environments of Northern Italian Alps — C. RICCI & L. PONTI
531 Migratory flight and pre-diapause feeding of *Coccinella septempunctata* (Coleoptera) adults in agricultural and mountain ecosystems of Central Italy — C. RICCI, L. PONTI & A. PIRES
539 Landscape parameters explain the distribution and abundance of *Episyphus balteatus* (Diptera: Syrphidae) — J.-P. SARTHOU, A. OUIN, F. ARRIGNON, G. BARREAU & B. BOUYJOU
547 The pollens consumed by common green lacewings *Chrysoperla* spp. (Neuroptera: Chrysopidae) in cabbage crop environment in western France — J. VILLENAVE, D. THIERRY, A. AL MAMUN, T. LODÉ & E. RAT-MORRIS

NOTES

- 553 Phenotypic plasticity of elytron length in wingless two-spot ladybird beetles, *Adalia bipunctata* (Coleoptera: Coccinellidae) — S.T.E. LOMMEN, P.W. DE JONG & P.M. BRAKEFIELD
557 Associative odour learning affects mating behaviour in *Aphidius ervi* males (Hymenoptera: Braconidae) — C.A. VILLAGRA, R.A. VÁSQUEZ & H.M. NIEMEYER