

## References

- Addison, J.A., Hardman, J.M., Walde, S.J., 2000. Pollen availability for predaceous mites on apple: spatial and temporal heterogeneity. *Experimental & Applied Acarology* 24, 1-18.
- Adedipe F., Park Y.-L. (2010) Visual and olfactory preference of *Harmonia axyridis* (Coleoptera: Coccinellidae) adults to various companion plants. *Journal of Asia-Pacific Entomology*, **13**, 319-323.
- Agustí N., Cohen A.C. (2000) *Lygus hesperus* and *L. lineolaris* (Hemiptera: Miridae), phytophages, zoophages, or omnivores: evidence of feeding adaptations suggested by the salivary and midgut digestive enzymes. *Journal of Entomological Science*, **35**, 176-186.
- Allen, H.W., 1929. An annotated list of the Tachinidae of Mississippi. *Annals of the Entomological Society of America* 22, 676-690.
- Ambrosino M.D., Luna J.M., Jepson P.C., Wratten S.D. (2006) Relative frequencies of visits to selected insectary plants by predatory hoverflies (Diptera: Syrphidae), other beneficial insects, and herbivores. *Environmental Entomology*, **35**, 394-400.
- Applequist W., Moerman D. (2011) Yarrow (*Achillea millefolium* L.): a neglected panacea? a review of ethnobotany, bioactivity, and biomedical research. *Economic Botany*, **65**, 209-225.
- Atlagić J., Joksimović J., Zvonimir Sakač, Miklič V., Dušanić N. (2003) Mode of inheritance and heritability of disc flower corolla length and nectar content in sunflower. *Genetika*, **35**, 59-65.
- Baggen, L.R., Gurr, G.M., 1998. The influence of food on *Copidosoma koehleri* (Hymenoptera: Encyrtidae), and the use of flowering plants as a habitat management tool to enhance biological control of potato moth, *Phthorimaea operculella* (Lepidoptera: Gelechiidae). *Biological Control* 11, 9-17.

- Baggen, L.R., Gurr, G.M., Meats, A., 1999. Flowers in tri-trophic systems: mechanisms allowing selective exploitation by insect natural enemies for conservation biological control. *Entomologia Experimentalis et Applicata* 91, 155-161.
- Baker, H.G., Baker, I., 1983. Floral nectar sugar constituents in relation to pollinator type. In: Jones, C.E., Little, R.J., (Eds.), *Handbook of Experimental Pollination Biology*. Van Nostrand Reinhold, New York, pp. 117-141.
- Balmer, O., Pfiffner, L., Schied, J., Willareth, M., Leimgruber, A., Luka, H., Traugott, M., 2013. Noncrop flowering plants restore top-down herbivore control in agricultural fields. *Ecology and Evolution*, 57-65.
- Becker, M., Zweckmair, T., Forneck, A., Rosenau, T., Potthast, A., Liebner, F., 2013. Evaluation of different derivatisation approaches for gas chromatographic–mass spectrometric analysis of carbohydrates in complex matrices of biological and synthetic origin. *J Chromatogr A* 1281, 115-126.
- Beckman, N., Hurd, L.E., 2003. Pollen feeding and fitness in praying mantids: the vegetarian side of a tritrophic predator. *Environmental Entomology* 32, 881-885.
- Berndt L.A., Wratten S.D., Hassan P.G. (2002) Effects of buckwheat flowers on leafroller (Lepidoptera: Tortricidae) parasitoids in a New Zealand vineyard. *Agricultural and Forest Entomology*, 4, 39-45.
- Berndt, L.A., Wratten, S.D., Scarratt, S.L., 2006. The influence of floral resource subsidies on parasitism rates of leafrollers (Lepidoptera: Tortricidae) in New Zealand vineyards. *Biological Control* 37, 50-55.
- Bianchi F.J., Booij C.J., Tscharrntke T. (2006) Sustainable pest regulation in agricultural landscapes: a review on landscape composition, biodiversity and natural pest control. *Proceedings of the Royal Society B: Biological Sciences*, 273, 1715-1727.
- Bickerton M.W., Hamilton G.C. (2012) Effects of Intercropping with Flowering Plants on Predation of *Ostrinia nubilalis* (Lepidoptera: Crambidae) Eggs by Generalist Predators in Bell Peppers. *Environmental Entomology*, 41, 612-620.

- Blaauw, B.R., Isaacs, R., 2012. Larger wildflower plantings increase natural enemy density, diversity, and biological control of sentinel prey, without increasing herbivore density. *Ecological Entomology* 37, 386-394.
- Bostanian, N.J., Goulet, H., O'Hara, J., Masner, L., Racette, G., 2004. Towards insecticide free apple orchards: flowering plants to attract beneficial arthropods. *Biocontrol Science and Technology* 14, 25-37.
- Braman, S.K., Pendley, A.F., Corley, N., 2002. Influence of commercially available wildflower mixes on beneficial arthropod abundance and predation in turfgrass. *Environ Entomol* 31, 564-572.
- Brennan E.B. (2013) Agronomic aspects of strip intercropping lettuce with alyssum for biological control of aphids. *Biological Control*, **65**, 302-311.
- Brown M.W., Mathews C.R., Krawczyk G. (2010) Extrafloral nectar in an apple ecosystem to enhance biological control. *Journal of Economic Entomology*, **103**, 1657-1664.
- Bugg R.L., Anderson J.H., Thomsen C.D., Chandler J. (1998) Farmscaping: restoring native biodiversity to agricultural settings. *In: Enhancing Biological Control: Habitat Management to Promote Natural Enemies of Agricultural Pests*, pp. 339-374. Berkeley, CA: University of California Press.
- Bugg, R.L., Wäckers, F.L., Brunson, K.E., Dutcher, J.D., Phatak, S.C., 1991. Cool-season cover crops relay intercropped with cantaloupe: influence on a generalist predator, *Geocoris punctipes* (Hemiptera: Lygaeidae). *Journal of Economic Entomology* 84, 408-416.
- Burton R.L. (1969) Mass rearing the corn earworm in the laboratory. *USDA-ARS*, 33-134.
- Campbell, A.J., Biesmeijer, J.C., Varma, V., Wäckers, F.L., 2012. Realising multiple ecosystem services based on the response of three beneficial insect groups to floral traits and trait diversity. *Basic and Applied Ecology* 13, 363-370.

- Carrié R.G., George D., Wäckers F. (2012) Selection of floral resources to optimise conservation of agriculturally-functional insect groups. *Journal of Insect Conservation*, **16**, 635-640.
- Carrubba A., la Torre R., Saiano F., Aiello P. (2008) Sustainable production of fennel and dill by intercropping. *Agronomy for Sustainable Development*, **28**, 247-256.
- Chen, L., Fadamiro, H.Y., 2006. Comparing the effects of five naturally occurring monosaccharide and oligosaccharide sugars on longevity and carbohydrate nutrient levels of a parasitic phorid fly, *Pseudacteon tricuspis*. *Physiol Entomol* 31, 46-56.
- Clausen, C.P., Jaynes, H.A., Gardner, T.R., 1933. Further investigations of the parasites of *Popillia japonica* in the Far East. U.S. Dept. Agric. Tech. Bull 366, 1-58.
- Coll, M., Guershon, M., 2002. Omnivory in terrestrial arthropods: mixing plant and prey diets. *Annual Review of Entomology* 47, 267-297.
- Collyer, E., van Geldermalsen, M., 1975. Integrated control of apple pests in New Zealand 1. Outline of experiment and general results. *New Zealand Journal of Zoology* 2, 101-134.
- Costanza, R., d'Arge, R., de Groot, R., Farber, S., Grasso, M., Hannon, B., Limburg, K., Naeem, S., O'Neill, R.V., Paruelo, J., Raskin, R.G., Sutton, P., van den Belt, M., 1997. The value of the world's ecosystem services and natural capital. *Nature* 387, 253-260.
- Cronn R., Brothers M., Klier K., Bretting P.K., Wendel J.F. (1997) Allozyme variation in domesticated annual sunflower and its wild relatives. *Theoretical and Applied Genetics*, **95**, 532-545.
- Crowder D.W., Northfield T.D., Strand M.R., Snyder W.E. (2010) Organic agriculture promotes evenness and natural pest control. *Nature*, **466**, 109-112.
- DeBach, P., 1964. *Biological Control of Insect Pests And Weeds*. Chapman and Hall, New York.

- Díaz, M.F., Ramírez, A., Poveda, K., 2012. Efficiency of different egg parasitoids and increased floral diversity for the biological control of noctuid pests. *Biological Control* 60, 182-191.
- Dib H., Libourel G., Warlop F. (2012) Entomological and functional role of floral strips in an organic apple orchard: hymenopteran parasitoids as a case study. *Journal of Insect Conservation*, **16**, 315-318.
- Dufour, R., 2000. Farmscaping to enhance biological control. *Appropriate Technology Transfer for Rural Areas*, pp. 1-37.
- Ehler, L., 1998. Conservation biological control: past, present, and future. In: Pedro, B., (Ed.), *Conservation Biological Control*. Academic Press, San Diego, pp. 1-8.
- Ellis, J.A., Walter, A.D., Tooker, J.F., Ginzel, M.D., Reagel, P.F., Lacey, E.S., Bennett, A.B., Grossman, E.M., Hanks, L.M., 2005. Conservation biological control in urban landscapes: manipulating parasitoids of bagworm (Lepidoptera: Psychidae) with flowering forbs. *Biological Control* 34, 99-107.
- English-Loeb, G., Rhainds, M., Martinson, T., Ugine, T., 2003. Influence of flowering cover crops on *Anagrus* parasitoids (Hymenoptera: Mymaridae) and *Erythroneura* leafhoppers (Homoptera: Cicadellidae) in New York vineyards. *Agricultural and Forest Entomology* 5, 173-181.
- Eubanks, M.D., Denno, R.F., 1999. The ecological consequences of variation in plants and prey for an omnivorous insect. *Ecology* 80, 1253-1266.
- Eubanks, M.D., Styrsky, J.D., 2005. Effects of plant feeding on the performance of omnivorous “predators”. In: Wäckers, F.L., van Rijn, P.C.J., Bruin, J., (Eds.), *Plant-Provided Food for Carnivorous Insects: A Protective Mutualism and Its Applications*. Cambridge University Press, Cambridge, pp. 148-177.
- Fahn, A., 1988. Secretory tissues in vascular plants. *New Phytologist* 108, 229-257.
- Fambrini M., Michelotti V., Pugliesi C. (2007) The unstable tubular ray flower allele of sunflower: inheritance of the reversion to wild-type. *Plant Breeding*, **126**, 548-550.

- Fernández-Martínez J., Pérez-Vich B., Velasco L. (2010) Sunflower. *In: Oil Crops*, pp. 155-232 Eds J. Vollmann & I. Rajcan. New York: Springer New York.
- Froggatt, W.W., 1902. A natural enemy of the sugar-cane beetle in Queensland. *Agricultural Gazette of New South Wales*, 1-6.
- Géneau, C.E., Wäckers, F.L., Luka, H., Daniel, C., Balmer, O., 2012. Selective flowers to enhance biological control of cabbage pests by parasitoids. *Basic and Applied Ecology* 13, 85-93.
- Gibson R.H., Pearce S., Morris R.J., Symondson W.O.C., Memmott J. (2007) Plant diversity and land use under organic and conventional agriculture: a whole-farm approach. *Journal of Applied Ecology*, **44**, 792-803.
- Gillespie, M., Wratten, S., Sedcole, R., Colfer, R., 2011. Manipulating floral resources dispersion for hoverflies (Diptera: Syrphidae) in a California lettuce agro-ecosystem. *Biological Control* 59, 215-220.
- Gontijo, L.M., Beers, E.H., Snyder, W.E., 2013. Flowers promote aphid suppression in apple orchards. *Biological Control* 66, 8-15.
- Goulson, D., 1999. Foraging strategies of insects for gathering nectar and pollen, and implications for plant ecology and evolution. *Perspectives in Plant Ecology, Evolution and Systematics* 2, 185-209.
- Gross M., Lewinsohn E., Dudai N., Cohen Y., Friedman J. (2008) Flowering dynamics and crossability of different populations of bitter fennel (*Foeniculum vulgare* Mill. var. *vulgare*, Apiaceae). *Israel Journal of Plant Sciences*, **56**, 215-226.
- Gurr, G.M., Scarratt, S.L., Wratten, S.D., Berndt, L., Irvin, N., 2004. Ecological engineering, habitat manipulation and pest management. In: Gurr, G., Wratten, S.D., Altieri, M.A., (Eds.), *Ecological Engineering for Pest Management : Advances in Habitat Manipulation for Arthropods* Csiro Publishing, Collingwood, Victoria, pp. 1-12.
- Gurr G.M., Wratten S.D., Tylankis T.J., Kean J., Keller M. (2005) Providing plant foods for natural enemies in farming systems: balancing practicalities and theory. *In: Plant-Provided Food for Carnivorous Insects: a protective mutualism and its*

*applications*, pp. 326-347 Eds F. L. Wäckers, P. C. J. van Rijn & J. Bruin. New York: Cambridge University Press.

Hadisoesilo S., Furgala B. (1986) The effect of cultivar, floral stage and time of day on the quantity and quality of nectar extracted from oilseed sunflower (*Helianthus annuus* L.) in Minnesota. *American bee journal*, **126**, 630-631.

Hajek, A.E., 2004. *Natural Enemies: An Introduction to Biological Control*. Cambridge University Press, Cambridge, UK.

Haley, S., Hogue, E., 1990. Ground cover influence on apple aphid, *Aphis pomi* DeGeer (Homoptera: Aphididae), and its predators in a young apple orchard. *Crop Protection* 9, 225-230.

Hammond, H.E., Norcini, J.G., Wilson, S.B., Schoellhorn, R., 2007. Growth, flowering, and survival of firewheel (*Gaillardia pulchella* Foug.) based on seed source and growing location. *Native Plants J* 8, 25-39.

Hogg, B.N., Bugg, R.L., Daane, K.M., 2011. Attractiveness of common insectary and harvestable floral resources to beneficial insects. *Biol Control* 56, 76-84.

Hole D.G., Perkins A.J., Wilson J.D., Alexander I.H., Grice P.V., Evans A.D. (2005) Does organic farming benefit biodiversity? *Biological Conservation*, **122**, 113-130.

Hopkinson, J.E., Zalucki, M.P., Murray, D.A.H., 2013. Honeydew as a source of nutrition for *Lysiphlebus testaceipes* (Cresson) (Hymenoptera: Braconidae): effect of adult diet on lifespan and egg load. *Aust J Entomol* 52, 14-19.

Huang, T.-I., Toews, M.D., 2012. Feeding preference and movement of *Nezara viridula* and *Euschistus servus* (Hemiptera: Pentatomidae) on individual cotton plants. *J Econ Entomol* 105, 847-853.

Idris A.B., Grafius E. (1995) Wildflowers as nectar sources for *Diadegma insulare* (Hymenoptera: Ichneumonidae), a parasitoid of diamondback moth (Lepidoptera: Yponomeutidae). *Environmental Entomology*, **24**, 1726-1735.

- Jacometti M., Jørgensen N., Wratten S. (2010) Enhancing biological control by an omnivorous lacewing: floral resources reduce aphid numbers at low aphid densities. *Biological Control*, **55**, 159-165.
- Jeffery E., Araya M. (2009) Physiological effects of broccoli consumption. *Phytochemistry Reviews*, **8**, 283-298.
- Jervis M.A., Heimpel G.E., Ferns P.N., Harvey J.A., Kidd N.A. (2001) Life-history strategies in parasitoid wasps: a comparative analysis of 'ovigeny'. *Journal of Animal Ecology*, **70**, 442–458.
- Johanowicz D.L., Mitchell E.R. (2000) Effects of sweet alyssum flowers on the longevity of the parasitoid wasps *Cotesia marginiventris* (Hymenoptera: Braconidae) and *Diadegma insulare* (Hymenoptera: Ichneumonidae). *The Florida Entomologist*, **83**, 41-47.
- Jones G.A., Gillett J.L. (2005) Intercropping with sunflowers to attract beneficial insects in organic agriculture. *Florida Entomologist*, **88**, 91-96.
- King, J.L., Holloway, J.K., 1930. *Tiphia popilliavora* Rohwer, a parasite of the Japanese beetle. United States Department of Agriculture Circular 145, 1-11.
- Koptur, S., 1992. Extrafloral nectary-mediated interactions between insects and plants. In: Bernays, E., (Ed.), *Insect-Plant Interactions*. CRC Press, Boca Raton, FL, pp. 81-129.
- Landis, D.A., Wratten, S.D., Gurr, G.M., 2000. Habitat management to conserve natural enemies of arthropod pests in agriculture. *Annual Review of Entomology* 45, 175-201.
- Lavandero, B., Wratten, S., Shishehbor, P., Worner, S., 2005. Enhancing the effectiveness of the parasitoid *Diadegma semiclausum* (Helen): movement after use of nectar in the field. *Biol Control* 34, 152-158.
- Lee, J.C., Heimpel, G.E., 2005. Impact of flowering buckwheat on Lepidopteran cabbage pests and their parasitoids at two spatial scales. *Biological Control* 34, 290-301.



- Lee J.C., Heimpel G.E. (2008) Floral resources impact longevity and oviposition rate of a parasitoid in the field. *Journal of Animal Ecology*, **77**, 565-572.
- Lewis, W.J., Stapel, J.O., Cortesero, A.M., Takasu, K., 1998. Understanding how parasitoids balance food and host needs importance to biological control. *Biol Control* 11, 175-183.
- Li, S., Zhang, H.Q., 2001. Advances in the development of functional foods from buckwheat. *Crit Rev Food Sci* 41, 451-464.
- Long, R.F., Corbett, A., Lamb, C., Reberg-Horton, C., Chandler, J., Stimmann, M., 1998. Beneficial insects move from flowering plants to nearby crops. *California Agriculture* 52, 23-26.
- Losey, J.E., Vaughan, M., 2006. The economic value of ecological services provided by insects. *Bioscience* 56, 311-323.
- Lu G., Hoelt E. (2009) Sunflower. *In: Compendium of Transgenic Crop Plants*, Eds C. Kole & T. C. Hall. London: John Wiley & Sons, Ltd.
- Lundgren J.G. (2009) *Relationships of Natural Enemies and Non-prey Foods* Dordrecht: Springer.
- Lundgren, J.G., 2009a. The functions of non-prey foods in the diets of entomophagous species. *Relationships of Natural Enemies and Non-Prey Foods*. Springer Netherlands, New York, pp. 1-15.
- Lundgren, J.G., 2009b. Non-prey foods and biological control of arthropods. *Relationships of Natural Enemies and Non-Prey Foods*. Springer Netherlands, pp. 279-307.
- MAF Biosecurity Zealand, M.B.N., 2010. Pest Management Biosecurity Magazine. <http://www.biosecurity.govt.nz/files/biosec/pubs-media/pubs/biosecurity-magazine/issue-101/biosecurity-101.pdf>. Retrieved: February 4, 2013.
- Mani, M.S., Saravanan, J.M., 1999. *Pollination Ecology and Evolution in Compositae (Asteraceae)*. Science Publishers, Enfield, N.H.

- Masetti, A., Lanzoni, A., Burgio, G., 2010. Effects of flowering plants on parasitism of lettuce leafminers (Diptera: Agromyzidae). *Biological Control* 54, 263-269.
- McPherson, J.E., McPherson, R.M., 2000. *Stink Bugs of Economic Importance in America North of Mexico*. CRC Press, Boca Raton, FL.
- Mitchell E.R., Hu G.Y., Okine J.S. (1997) Diamondback Moth (Lepidoptera: Plutellidae) infestation and parasitism by *Diadegma insulare* (Hymenoptera: Ichneumonidae) in collards and adjacent cabbage fields. *The Florida Entomologist*, **80**, 54-62.
- Musolin, D.L., 2012. Surviving winter: diapause syndrome in the southern green stink bug *Nezara viridula* in the laboratory, in the field, and under climate change conditions. *Physiol Entomol* 37, 309-322.
- Nafziger, T.D., Fadamiro, H.Y., 2011. Suitability of some farmscaping plants as nectar sources for the parasitoid wasp, *Microplitis croceipes* (Hymenoptera: Braconidae): effects on longevity and body nutrients. *Biol Control* 56, 225-229.
- Nishida, T., 1958. Extrafloral glandular secretions, a food source for certain insects. *Proceedings of the Hawaiian Entomological Society* 16, 379-386.
- Ohnishi, O., 1990. Discovery of the wild ancestor of common buckwheat. *Fagopyrum* 11, 5-10.
- Olson, M.D., Takasu, K., Lewis, W.J., 2005. Food needs of adult parasitoids: behavioural adaptations and consequences. In: Wäckers, F.L., van Rijn, P.C.J., Bruin, J., (Eds.), *Plant-Provided Food for Carnivorous Insects: A Protective Mutualism and its Applications*. Cambridge University Press, Cambridge, pp. 137-147.
- Patt, J.M., G. C. Hamilton, and J. H. Lashomb, 1997. Foraging success of parasitoid wasps on flowers interplay of insect morphology, floral architecture and searching behavior. *Entomol Exp Appl* 83, 21–30.
- Pavuk, D.M., Stinner, B.R., 1992. Influence of weed communities in corn plantings on parasitism of *Ostrinia nubilalis* (Lepidoptera: Pyralidae) by *Eriborus terebrans* (Hymenoptera: Ichneumonidae). *Biological Control* 2, 312-316.

- Perdikis, D., Fantinou, A., Lykouressis, D., 2011. Enhancing pest control in annual crops by conservation of predatory Heteroptera. *Biological Control* 59, 13-21.
- Pfannenstiel, R.S., Mackey, B.E., Unruh, T.R., 2012. Leafroller parasitism across an orchard landscape in central Washington and effect of neighboring rose habitats on parasitism. *Biological Control* 62, 152-161.
- Pfiffner, L., Luka, H., Schlatter, C., Juen, A., Traugott, M., 2009. Impact of wildflower strips on biological control of cabbage lepidopterans. *Agriculture, Ecosystems & Environment* 129, 310-314.
- Pfiffner, L., Wyss, E., 2004. Use of sown wildflower strips to enhance natural enemies of agricultural pests. In: Gurr, G.M., Wratten, S.D., Altieri, M.A., (Eds.), *Ecological Engineering for Pest Management: Advances in Habitat Manipulation for Arthropods*. CSIRO Publishing, Collingwood, Victoria, pp. 165-186.
- Pontin D.R., Wade M.R., Kehrl P., Wratten S.D. (2006) Attractiveness of single and multiple species flower patches to beneficial insects in agroecosystems. *Annals of Applied Biology*, **148**, 39-47.
- Portillo, N., Alomar, O., Wäckers, F., 2012. Nectarivory by the plant-tissue feeding predator *Macrolophus pygmaeus* Rambur (Heteroptera: Miridae): nutritional redundancy or nutritional benefit? *J Insect Physiol* 58, 397-401.
- Quinet, M., Cawoy, V., Lefevre, I., Van Miegroet, F., Jacquemart, A.L., Kinet, J.M., 2004. Inflorescence structure and control of flowering time and duration by light in buckwheat (*Fagopyrum esculentum* Moench). *J Exp Bot* 55, 1509-1517.
- Rebek, E.J., Sadof, C.S., Hanks, L.M., 2006. Influence of floral resource plants on control of an armored scale pest by the parasitoid *Encarsia citrina* (Craw.) (Hymenoptera: Aphelinidae). *Biological Control* 37, 320-328.
- Risch S.J., Andow D., Altieri M.A. (1983) Agroecosystem diversity and pest control: data, tentative conclusions, and new research directions. *Environmental Entomology*, **12**, 625-629.

- Romina, R., Will, E., David, A.W., Saul, A.C., Bradley, G.H., 2011. Pollen transport differs among bees and flies in a human-modified landscape. *Diversity & Distributions* 17, 519-529.
- Root R.B. (1973) Organization of a plant-arthropod association in simple and diverse habitats: the fauna of collards (*Brassica Oleracea*). *Ecological Monographs*, **43**, 95-124.
- Roulston, T.H., Cane, J.H., 2000. Pollen nutritional content and digestibility for animals. *Plant Systematics and Evolution* 222, 187-209.
- Ruberson, J.R., Olson, D.M., Thompson, M.D., Ottens, R.J., Toews, M.D., Jones, S., Mills, W.A., 2010. Importance of natural enemies for stink bug control. In: Ritchie, G., Smith, A., Collins, G. (Eds.), Cotton Research-Extension Report. UGA/CPES Research-Extension Publication.  
<http://www.ugacotton.com/vault/rer/2009/p126RER2009.pdf>
- Rusch A., Bommarco R., Chiverton P., Öberg S., Wallin H., Wiktelius S., Ekbom B. (2013) Response of ground beetle (Coleoptera, Carabidae) communities to changes in agricultural policies in Sweden over two decades. *Agriculture, Ecosystems & Environment*, **176**, 63-69.
- Sandhu, H.S., Wratten, S.D., Cullen, R., Case, B., 2008. The future of farming: The value of ecosystem services in conventional and organic arable land. An experimental approach. *Ecological Economics* 64, 835-848.
- SAS, 2010. SAS version 9.3. SAS Institute, Inc., Cary, NC, USA.
- Sengonca, C., Kranz, J., Blaeser, P., 2002. Attractiveness of three weed species to polyphagous predators and their influence on aphid populations in adjacent lettuce cultivations. *Anzeiger für Schädlingskunde* 75, 161-165.
- Shaw, S.R., Salerno, G., Colazza, S., Peri, E., 2001. First record of *Aridelus rufotestaceus* Tobias (Hymenoptera: Braconidae, Euphorinae) parasitizing *Nezara viridula* nymphs (Heteroptera: Pentatomidae) with observations on its immature stages and development. *J Hymenopt Res* 10, 131-137.

- Sheehan W. (1986) Response by specialist and generalist natural enemies to agroecosystem diversification: a selective review. *Environmental Entomology*, **15**, 456-461.
- Shelton A.M., Wilsey W.T., Hoebeke E.R., Schmaedick M.A. (2002) Parasitoids of cabbage Lepidoptera in Central New York. *Journal of Entomological Science*, **37**, 270-271.
- Sim, Y.G., Choi, Y.E., 1999. Honey bee (*Apis mellifera* L.) alluring substances in *Angelica gigas* Nakai and *Fagopyrum esculentum* Moench and pollinating effect. Korean J Apic 14, 23-31.
- Sivakoff, F.S., Rosenheim, J.A., Hagler, J.R., 2012. Relative dispersal ability of a key agricultural pest and its predators in an annual agroecosystem. *Biological Control* 63, 296-303.
- Sivinski J., Wahl D., Holler T., Dobai S.A., Sivinski R. (2011) Conserving natural enemies with flowering plants: Estimating floral attractiveness to parasitic Hymenoptera and attraction's relationship to flower and plant morphology. *Biological Control*, **58**, 208-214.
- Sokhangoy, S.H., Ansari, K., Asli, D.E., 2012. Effect of bio-fertilizers on performance of dill (*Anethum graveolens* L.). *Iranian Journal of Plant Physiology* 2, 547-552.
- Spellman B., Brown M.W., Mathews C.R. (2006) Effect of floral and extrafloral resources on predation of *Aphis spiraecola* by *Harmonia axyridis* on apple. *BioControl*, **51**, 715-724.
- Stephens, M.J., France, C.M., Wratten, S.D., Frampton, C., 1998. Enhancing biological control of leafrollers (Lepidoptera: Tortricidae) by sowing buckwheat (*Fagopyrum esculentum*) in an orchard. *Biocontrol Science and Technology* 8, 547-558.
- Stoate C., Báldi A., Beja P., Boatman N.D., Herzon I., van Doorn A., de Snoo G.R., Rakosy L., Ramwell C. (2009) Ecological impacts of early 21st century agricultural change in Europe – a review. *Journal of Environmental Management*, **91**, 22-46.

- Sulborska A., Weryszko-Chmielewska E. (2006) Morphology, anatomy and ultrastructure of yarrow (*Achillea millefolium* L.) floral nectaries. *Acta Agrobotanica*, **59** 17-28.
- Talekar N.S., Shelton A.M. (1993) Biology, ecology, and management of the diamondback moth. *Annual Review of Entomology*, **38**, 275–301.
- Thomson, L.J., Hoffmann, A.A., 2013. Spatial scale of benefits from adjacent woody vegetation on natural enemies within vineyards. *Biological Control* **64**, 57-65.
- Tian J., Ban X.Q., Zeng H., He J.S., Chen Y.X., Wang Y.W. (2012) The mechanism of antifungal action of essential oil from dill (*Anethum graveolens* L.) on *Aspergillus flavus*. *Plos One*, **7**, e30147.
- Todd, J.W., 1989. Ecology and behavior of *Nezara Viridula*. *Annu Rev Entomol* **34**, 273-292.
- Tuovinen T., Kikas A., Tolonen T., Kivijärvi P. (2006) Organic mulches vs. black plastic in organic strawberry: does it make a difference for ground beetles (Col., Carabidae)? *Journal of Applied Entomology*, **130**, 495-503.
- Tylianakis J.M., Didham R.K., Wratten S.D. (2004) Improved fitness of aphid parasitoids receiving resource subsidies. *Ecology*, **85**, 658-666.
- Vattala, H.D., Wratten, S.D., Phillips, C.B., Wäckers, F.L., 2006. The influence of flower morphology and nectar quality on the longevity of a parasitoid biological control agent. *Biological Control* **39**, 179-185.
- Wäckers, F.L., 2005. Suitability of (extra-)floral nectar, pollen, and honeydew as insect food sources. In: Wäckers, F.L., Rijn, P.C.J.v., Bruin, J., (Eds.), *Plant-Provided Food for Carnivorous Insects: A Protective Mutualism and Its Applications*. Cambridge University Press, Cambridge, pp. 17-74.
- Wäckers, F.L., van Rijn, P.C.J., 2005. Food for protection: an introduction. In: Wäckers, F.L., van Rijn, P.C.J., Bruin, J., (Eds.), *Plant-Provided Food for Carnivorous Insects: A Protective Mutualism and Its Applications*. Cambridge University Press, Cambridge, pp. 1-14.

- Wäckers F.L., van Rijn P.C.J. (2012) Pick and mix: selecting flowering plants to meet the requirements of target biological control insects. *In: Biodiversity and Insect Pests: Key Issues for Sustainable Management*, pp. 139-165 Eds M. G. Geoff, S. D. Wratten & W. E. Snyder. West Sussex, UK: John Wiley & Sons, Ltd.
- Walley P., Carder J., Skipper E., Mathas E., Lynn J., Pink D., Buchanan-Wollaston V. (2012) A new broccoli x broccoli immortal mapping population and framework genetic map: tools for breeders and complex trait analysis. *Theoretical and Applied Genetics*, **124**, 467-484.
- Warwick S.I., Black L. (1982) The biology of Canadian weeds.: 52. *Achillea millefolium* L. S.L. *Canadian Journal of Plant Science*, **62**, 163-182.
- Welch, K.D., Pfannenstiel, R.S., Harwood, J.D., 2012. The role of generalist predators in terrestrial food webs: lessons for agricultural pest management. In: Gurr, G.M., Wratten, S.D., Snyder, W.E., Read, D.M.Y., (Eds.), *Biodiversity and Pests: Key Issues for Sustainable Management*. John Wiley & Sons, Ltd, pp. 41-56.
- Wijngaard H.H., Arendt E.K. (2006) Buckwheat. *Cereal Chemistry Journal*, **83**, 391-401.
- Winkler K., Wäckers F.L., Kaufman L.V., Larraz V., van Lenteren J.C. (2009) Nectar exploitation by herbivores and their parasitoids is a function of flower species and relative humidity. *Biological Control*, **50**, 299-306.
- Winkler, K., Wäckers, F.L., Termorshuizen, A.J., van Lenteren, J.C., 2010. Assessing risks and benefits of floral supplements in conservation biological control. *BioControl* **55**, 719-727.
- Wist T.J., Davis A.R. (2006) Floral nectar production and nectary anatomy and ultrastructure of *Echinacea purpurea* (Asteraceae). *Annals of Botany*, **97**, 177-193.
- Witting-Bissinger, B.E., Orr, D.B., Linker, H.M., 2008. Effects of floral resources on fitness of the parasitoids *Trichogramma exiguum* (Hymenoptera: Trichogrammatidae) and *Cotesia congregata* (Hymenoptera: Braconidae). *Biological Control* **47**, 180-186.
- Wolcott, G.N., 1942. The requirements of parasites for more than hosts. *Science* **96**, 317-318.

- Wold-Burkness S.J., Hutchison W.D., Lee J.C., Hines R.L., Bolin P.C., Heimpel G.E. (2005) A long-term survey of parasitoid species composition and parasitism of *Trichoplusia ni* (Lepidoptera: Noctuidae), *Plutella xylostella* (Lepidoptera: Plutellidae), and *Pieris rapae* (Lepidoptera: Pieridae) in Minnesota cabbage. *Journal of Entomological Science.*, **40**, 211-221.
- Woltz, J.M., Isaacs, R., Landis, D.A., 2012. Landscape structure and habitat management differentially influence insect natural enemies in an agricultural landscape. *Agriculture, Ecosystems & Environment* 152, 40-49.
- Wong, S.K., Frank, S.D., 2012. Influence of banker plants and spiders on biological control by *Orius insidiosus* (Heteroptera: Anthocoridae). *Biological Control* 63, 181-187.
- Wyckhuys, K.A.G., Lu, Y., Morales, H., Vazquez, L.L., Legaspi, J.C., Eliopoulos, P.A., Hernandez, L.M., 2013. Current status and potential of conservation biological control for agriculture in the developing world. *Biological Control* 65, 152-167.
- Wyss, E., 1995. The effects of weed strips on aphids and aphidophagous predators in an apple orchard. *Entomologia Experimentalis et Applicata* 75, 43-49.
- Xu J., Shelton A.M., Cheng X. (2001) Comparison of *Diadegma insulare* (Hymenoptera: Ichneumonidae) and *Microplitis plutellae* (Hymenoptera: Braconidae) as biological control agents of *Plutella xylostella* (Lepidoptera: Plutellidae): field parasitism, insecticide susceptibility, and host-searching. *Journal of Economic Entomology*, **94**, 14-20.
- Yan, Y.-h., Yu, Y., Du, X.-g., Zhao, B.-g., 1997. Conservation and augmentation of natural enemies in pest management of Chinese apple orchards. *Agriculture, Ecosystems & Environment* 62, 253-260.
- Yan, Y., Duan, J., 1988. The effect of cover cropping in apple orchards on the predator community on the apple tree. *Acta Phytopylacica Sinica* 15, 23-27.
- Žanic K., Ban D., Ban S.G., Čuljak T.G., Dumičić G. (2009) Response of alate aphid species to mulch colour in watermelon. *Journal of Food Agriculture & Environment*, **7**, 496-502.



- Zhang D., Armitage A.M., Affolter J.M., Dirr M.A. (1996) Environmental control of flowering and growth of *Achillea millefolium* L. 'Summer Pastels'. *HortScience*, **31**, 364-365.
- Zhu P., Gurr G.M., Lu Z., Heong K., Chen G., Zheng X., Xu H., Yang Y. (2013) Laboratory screening supports the selection of sesame (*Sesamum indicum*) to enhance *Anagrus* spp. parasitoids (Hymenoptera: Mymaridae) of rice planthoppers. *Biological Control*, **64**, 83-89.
- Zumoffen, L., Salto, C., Salvo, A., 2012. Preliminary study on parasitism of aphids (Hemiptera: Aphididae) in relation to characteristics of alfalfa fields (*Medicago sativa* L.) in the Argentine Pampas. *Agriculture, Ecosystems & Environment* 159, 49-54.