

**FABIÁN DANIEL MENALLED**

May 21, 2015

Professor of Weed Ecology and Management

Professional expertise: Weed ecology and management, agroecology and sustainable farming, cropping systems, basic and applied plant ecology, population and community ecology.

Montana State University

Department of Land Resources and Environmental Sciences

719 Leon Johnson Hall

Bozeman, MT 59717-3120

Phone (406) 994-4783

Email: [menalled@montana.edu](mailto:menalled@montana.edu)

Web: <http://www.ipm.montana.edu/CropWeeds>

<http://weedeco.msu.montana.edu>

---

**Education**

Ph.D. 1996. University of Massachusetts, Amherst.

B.S. 1984. University of Buenos Aires, Argentina. Biological Sciences.

**Awards, Grants, and Contracts**

***Total Awarded = \$13,502,980***

***Total Awarded as PI = \$3,447,203***

**Ongoing relevant awards**

2014-2017	\$420,000	USDA-NIFA-CPPM. Montana State University's Extension Implementation Plan for Integrated Pest Management. Burrows, M., T. Day, L. Kerzicnik, J. Mangold, <b>F. Menalled</b> , C. Tharp, and K. Wanner
2012-2016	\$1,499,815	USDA - OREI. Targeted grazing to reduce tillage in organic dryland: Environmental, ecological, and economic assessment of reintegrating animal and crop production. <b>Menalled, F.</b> , P. Carr, P. Hatfield, P. Miller, D. Weaver, M. Burrows, R. Engle, A. Bekkerman, J. Boles, Z. Miller, R. Quinn, L. Burkle, K. O'Neill, G. Gramig, and K. Ringwall.
2012-2017	\$3,375,000	USDA – AFRI Food Security. A predictive model to increase adoption of IPM of a mite-virus disease complex in wheat. Hein, G., S. Wegulo, J. Bradshaw, A. Zygielbaum, D. Namuth-Covert, D. Lyon, D., Golick, C. Rush, F., Workneh, M. Burrows, I. Grimberg, <b>F. Menalled</b> , Z. Miller, E. DeWolf, F. Epplin, R. Hunger, K. Kelsey, S. Tatineni, R. French, R. Graybosch, N. Tisserat. Total allocated to MSU: \$815,000.
2012-2015	\$499,801	USDA – AFRI Foundational Program. Molecular, physiological, and ecological characterization of multiple herbicide resistance in <i>Avena fatua</i> . Dyer, W., F. Menalled, B. Maxwell, B. Keith, E. Lehnhoff, and R. Peterson.
2012-2015	\$742,907	USDA – Organic Transition Programs. Reducing tillage intensity in organic crop systems: ecological and economic impacts of targeted sheep grazing on cover crops and weed management, soil health, carbon sequestration and greenhouse gas emissions organic transition. Hatfield, P., <b>F. Menalled</b> , U. Sainju, P. Miller, A. Bekkerman, P. Lachapelle, Z. Miller, and A. Lenssen.

**Undergraduate Students, Graduate Students, and Post-Docs**

	Total	Graduated. Advisor or co-advisor	Current. Advisor or co-advisor	Member of the committee
Post-Docs	5	4	1	--
PhD students	7	2	4	1
MS students	15	8	2	5
Undergraduate students	8	5	1	--

**Publications**

	Total	Main author	Co-author
Peer-reviewed publications	79	21	58
Books / Booklets	2	--	2
Book chapters	11	7	4
Extension – technical bulletins	27	15	12
News releases – popular press	118	117	--

(+ = undergraduate student, \* = graduate student, major advisee; \*\* = graduate student outside of my lab; \*\*\* = postdoctoral research associate or other employee)

**Articles in Peer-Reviewed Journals**

1. McKenzie, S.\*, H. Goosey, K. M. O'Neill, and F. Menalled. *Accepted with revisions*. Integrating livestock for cover crop termination in horticultural vegetable production: Impacts on weed and ground beetle (Coleoptera: carabidae) communities. *Agriculture, Ecosystems and Environment*.
2. Goosey, H.B, S. C. McKenzie, M. G. Rolson, K. M. O'Neill, and **F. Menalled**. *Accepted with revisions*. Impacts of contrasting alfalfa (*Medicago sativa*) production systems on the drivers of carabid beetle (Coleoptera: Carabidae) community dynamics. *Environmental Entomology*.
3. Miller, Z. \*\*\*, E. Lehnhoff\*\*\*, **F. Menalled** and M Burrows. *Accepted with revisions*. Effects of soil nitrogen and atmospheric carbon dioxide on Wheat streak mosaic virus and its vector (*Aceria tosichella* Kiefer). *Plant Disease*.
4. Keith, B, E. Lehnhoff\*\*\*, E. Burn\*, **F. Menalled**, and W. Dyer. *In Press*. Characterization of *Avena fatua* L. populations with resistance to multiple herbicide mechanisms of action. *Weed Research*
5. Lehnhoff, E\*\*\*, Z. Miller\*\*\*, **F. Menalled**, D. Ito\*\*, and M. Burrows. *In Press*. Wheat and barley susceptibility and tolerance to multiple isolates of Wheat streak mosaic virus. *Plant Disease*.
6. Barroso, J.\*\*\*, Z. Miller\*\*\*, E. Lehnhoff\*\*\*, P. Hatfield, and **F. Menalled**. *In Press*. Impacts of cropping system and management practices on the assembly of weed communities. *Weed Research*.
7. Orloff, L.\*, J. Mangold, and **F. Menalled**. *In Press*. Effects of exotic annual grass control on sown seedling. Establishment and remnant vegetation in rangeland and old-field systems. *Ecological Restoration*.
8. Miller, Z.\*\*\* and **F. Menalled**. 2015. Impact of species identity and phylogenetic relatedness on biologically-mediated plant-soil feedbacks in a low and a high intensity agroecosystem. *Plant and Soil* 389: 171-183.
9. Keren, I.\*, **F. Menalled**, D. Weaver, and J. Robison-Cox. 2015. Interacting agricultural pest management practices and their effect on crop yield: Application of a Bayesian decision theory

- approach to the joint management of *Bromus tectorum* and *Cephus cinctus*. PLOS ONE DOI: 10.1371/journal.pone.0118111
10. Miller, Z.\*\*\*; **F. Menalled**, U.M. Sainju, A.W. Lenssen, and P.G. Hatfield. 2015. Integrating sheep grazing into cereal-based crop rotations: Spring wheat yields and weed communities. *Agronomy Journal* 107: 104-112.
  11. Miller, Z.\*\*\*, **F. Menalled**, D. Ito\*\*, M. Moffet\*\*\*, and M. Burrows. 2014. Impacts of crop variety and time of inoculation on the susceptibility and tolerance of winter wheat to Wheat streak mosaic virus. *Plant Disease* 98: 1060-1065.
  12. Liebman, M., Z. Miller, C. Williams, P.R. Westerman, P.M. Dixon, A. Heggenstaller, A.S. Davis, **F.D. Menalled**, and D.N. Sundberg. 2014. Fates of *Setaria faberi* and *Abutilon theophrasti* seeds in three crop rotation systems. *Weed Research* 54:293-306.
  13. Mangold, J., H. Parkinson, C. Duncan, P. Rice, E. Davis, and **F. Menalled**. 2013. Controlling downy brome (*Bromus tectorum*) with imazapic on Montana rangeland. *Invasive Plant Science and Management* 6:554-558.
  14. Lehnhoff, E.\*\*\* and **F. Menalled**. 2013. Impacts of Tamarix-mediated soil changes on restoration plant growth. *Applied Vegetation Science* 16:438-447.
  15. Lehnhoff, E.\*\*\*, B. K. Keith, W. E. Dyer, R. K. Peterson, and **F. Menalled**. 2013. Characterization of multiple herbicide resistance in wild oat (*Avena fatua*) and its impacts on physiology, germinability, and seed production. *Agronomy Journal* 105:854-862.
  16. Orloff, N.\*, Z.J. Miller, **F.D. Menalled**, M.E. Burrows, and J.M. Mangold. 2013. Joint impacts of biological and environmental stressors on *Bromus tectorum* growth. *Weed Research* 53:192-200.
  17. Lehnhoff, E.\*\*\*, B. Keith, W. Dyer, and **F. Menalled**. 2013. Does multiple herbicide resistance modify crop-weed competitive interactions? Impact of biotic and abiotic stresses on multiple herbicide resistant wild oat (*Avena fatua*) in competition with wheat (*Triticum aestivum*). PLoS ONE 8(5): e64478. doi:10.1371/journal.pone.0064478.
  18. Davis P.\*, B. Maxwell, and **F. Menalled**. 2013. Impact of growing conditions on the competitive ability of *Camelina sativa* (L.) Crants (Camelina). *Canadian Journal of Plant Sciences* 93: 243-247.
  19. Miller, Z.\*\*\*, M. Burrows, and **F. Menalled**. 2013. Winter annual grassy weeds increase disease induced overwinter mortality in fall-sown cereals. *Weed Research* 53:102-109.
  20. Blake, N.K., D. Clark, S. P. Lanning, G. R. Carlson, P. F. Lamb, D. Nash, D. M. Wichman, K. D. Kephart, R. N. Stougaard, J. Miller, J. L. Eckhoff, **F. Menalled**, E. Davis, and L. E. Talbert. . 2013. Registration of WB 9879CLP Hard Red Spring Wheat. *Journal of Plant Registrations* 7: 205-208.
  21. Miller Z.\*\*\*, M. Burrows, and **F. Menalled**. 2013. Effects of nitrogen fertilization on risks and impacts of wheat streak mosaic disease. *Phytopathology* 103:97-97.
  22. Burrows, M., Z. Miller\*\*\*, **F. Menalled**. 2013. Estimating susceptibility to Wheat streak mosaic virus infection in non-crop grasses. *Phytopathology* 103:22-22
  23. Orloff, N.\*, J. Mangold, and **F. Menalled**. 2013. Role of size and nitrogen in competition between annual and perennial grasses. *Invasive Plant Science and Management* 6:87-98.
  24. Ito, D.\*\*; Z. Miller\*\*\*, **F. Menalled**, M. Moffet, M. Burrows. 2012. Relative susceptibility among alternative host species prevalent in the Great Plains to Wheat streak mosaic virus. *Plant Disease* 96:1185-1192.
  25. Lehnhoff, E.\*\*\*, L.J. Rew, C. Zabinski, and **F. Menalled**. 2012. Reduced impacts or a longer lag phase? Tamarix in the northwestern U.S.A. *Wetlands* 32: 497-508.
  26. Miller Z.\*\*\*, **F. Menalled**, and M. Burrows. 2012. Downy brome (*Bromus tectorum*) increases disease induced over-winter mortality in wheat (*Triticum aestivum*). *Canadian Journal of Plant Science* 92: 603-603.
  27. **Menalled, F.**, E. Keren\*, D. Weaver, A. Dyer, and J. Robison-Cox. 2012. Assessing the ecological basis of a multi-pest approach to management of wheat-fallow systems. *Canadian Journal of Plant Science* 92: 595-596.

28. Sciegienka, J.\* , E. Keren\*, and **F. Menalled**. 2011. Impact of root fragment dimension, weight, burial depth, and water regime on *Cirsium arvense* emergence and growth. *Canadian Journal of Plant Science* 91:1027-1036.
29. Schat, M.\*\* , S. Sing, R. Peterson, **F. Menalled**, and D. Weaver. 2011. Growth inhibition of Dalmatian toadflax, *Linaria dalmatica* (L.) Miller, in response to herbivory by the biological control agent *Mecinus janthinus* Germar. *Journal of Entomological Science* 46:1-15.
30. Davis, P.B.\* , **F. Menalled**, R.K.D. Peterson, and B. Maxwell. 2011. Refinement of weed risk assessments for biofuels using *Camelina sativa* as a model species. *Journal of Applied Ecology* 48: 989-997.
31. Weise, J.L.\* , E. Keren\*, and **F. Menalled**. 2011. Native wildflower species seedling tolerances to post-emergence herbicides. *Native Plants Journal* 12: 31-36.
32. Sciegienka, J.\* , E. Keren\*, and **F. Menalled**. 2011. Interactions of two biological control agents and a herbicide for Canada thistle (*Cirsium arvense*) suppression. *Invasive Plant Science and Management* 4: 151-158.
33. Lehnhoff; E.A.\*\*\* , **F. Menalled**, and L. Rew. 2011. Tamarisk (*Tamarix spp.*) establishment in its most Northern range. *Invasive Plant Science and Management* 4: 58-65.
34. **Menalled, F.** 2010. Ecological considerations in the design of integrated weed management programs (In Spanish). *Agroecologia* 5: 73-78.
35. **Menalled, F.**, B. Grimberg, and C. Jones. 2009. Evaluation of agricultural professionals' perceptions and knowledge on sustainable agriculture: A useful step in the development of an on-line extension program. *Journal of Agricultural Education* 50: 86-97.
36. Pollnac, F.\* , B. Maxwell, and **F. Menalled**. 2009. Weed community characteristics and crop performance: a neighborhood approach. *Weed Research* 49:242-250.
37. Pollnac, F.\* , B. Maxwell, and **F. Menalled**. 2009. Using species-area curves to examine weed communities in organic and conventional spring wheat systems. *Weed Science* 3:241-247.
38. Baer, S., D. Engle, J. Knops, K. Langeland, B. Maxwell, **F. Menalled**, A. Symstad. 2009. Vulnerability of rehabilitated agricultural production systems to invasion by nontarget plant species. *Environmental Management* 43: 189-196
39. Harbuck, K.\* , F. Pollnac\*, and **F. Menalled**. 2009. Impact of cropping systems on weed seedbanks in the Northern Great Plains. *Weed Biology and Management* 9:160-168.
40. Pollnac, F.\* , L. Rew, B. Maxwell, and **F. Menalled**. 2008. Spatial patterns, species richness and cover in weed communities of organic and conventional no-tillage spring wheat systems. *Weed Research* 48: 398-407.
41. Liebman, M., L.R. Gibson, D.N. Sundberg, A.H. Heggenstaller, P.R. Westerman, C.A. Chase, R.G. Hartzler, **F. Menalled**, A.S. Davis, and P.M. Dixon. 2008. Agronomic and economic performance characteristics of conventional and low-external-input cropping systems in the Central Corn Belt. *Agronomy Journal* 100:600-610.
42. Collier, T., S. Enloe, J. Sciegienka\*, and **F. Menalled**. 2007. Combined impacts of *Ceutorhynchus litura* and herbicide treatments for Canada thistle suppression. *Biological Control* 43:231-236
43. White, S., K. Renner, **F. Menalled** and D. Landis. 2007. Feeding preferences of weed seed predators and effect on weed emergence. *Weed Science* 55:606-612.
44. Smith, R.\*\*\* , **F. Menalled**, and G. Robertson. 2007. Temporal yield variability under conventional and alternative management systems. *Agronomy Journal* 99:1629-1634.
45. **Menalled, F.** and R. Smith\*\*\*. 2007. Competitiveness of herbicide resistant and susceptible kochia (*Kochia scoparia* (L.) Schrad.) under contrasting management practices. *Weed Biology and Management* 7:115-119.
46. **Menalled, F.**, R. Smith\*\*\*, J. Dauer\*, and T. Fox. 2007. Impact of agricultural management systems on carabid beetle communities and invertebrate weed seed predation. *Agriculture Ecosystems and Environment* 118: 49-54.

47. **Menalled, F.** 2007. Book review: Developing and extending sustainable agriculture. *Great Plains Research* 17: 237-238.
48. Smith R.\*\*\*, B. Maxwell, **F. Menalled**, and L. Rew. 2006. Lessons from agriculture may improve the management of invasive plants in wildland systems. *Frontiers Ecology and the Environment* 4:428-434.
49. Alvarez, J.M., **F. Menalled**, and M.A. Hoy. 2006. Molecular tools in biological control. (In Spanish). *Revista Manejo Integrado de Plagas y Agroecología* 74: 4-11.
50. Heggenstaller A.H., **F. Menalled**, M. Liebman, P.R. Westerman. 2006. Seasonal patterns in post-dispersal seed predation of *Abutilon theophrasti* and *Setaria faberi* in three cropping systems. *Journal of Applied Ecology* 43: 999-1010.
51. **Menalled, F.** and R.G. Smith\*\*\*. 2006. Book review: Plant-provided food for carnivorous insects: a protective mutualism and its applications. *Environmental Entomology* 35: 1137.
52. **Menalled, F.**, D. Buhler, and M. Liebman. 2005. Composted swine manure effects on germination and early growth of crop and weed species under greenhouse conditions. *Weed Technology* 19: 784-789.
53. **Menalled, F.**, K. Kohler, D. Buhler, and M. Liebman. 2005. Effects of composted swine manure on weed seedbank. *Agriculture Ecosystems and Environment*. 111: 63-69.
54. Westerman, P., M. Liebman, **F. Menalled**, A. Heggenstaller, R. Hartzler, and P. Dixon. 2005. Are many little hammers effective? Velvetleaf population dynamics in two- and four-year crop rotation systems. *Weed Science* 53: 382-392.
55. Landis, D., **F. Menalled**, A. Costamagna, and T. Wilkinson. 2005. Manipulating plant diversity to enhance beneficial arthropods in agricultural landscapes. *Weed Science* 53: 902-908.
56. **Menalled, F.**, D. Landis, and L. Dyer. 2004. Research and extension supporting ecologically based IPM systems. *Journal of Crop Improvement* 11 (1/2): 153-174.
57. **Menalled, F.**, M. Liebman, and D. Buhler. 2004. Impact of composted swine manure and tillage on soybean - common waterhemp competition. *Weed Science* 52:605-613.
58. Liebman, M., **F. Menalled**, D. Buhler, T. Richard, D. Sundberg, C. Cambardella, and K. Kohler. 2004. Impacts of composted swine manure on weed and corn nutrient uptake, growth, and competitive interactions. *Weed. Science* 52:365-375.
59. Costamagna, A., **F. Menalled**, and D. Landis. 2004. Effect of host density on the parasitism of the armyworm *Pseudaletia unipuncta* (Haworth) (Lepidoptera: Noctuidae), at two structurally different agricultural landscapes in Michigan. *Basic and Applied Ecology* 5: 347-355.
60. Kelty, M., **F. Menalled**, and M. Carlton. 2004. Nitrogen dynamics and red pine growth following application of pelletized biosolids in Massachusetts, USA. *Canadian Journal Forestry Research* 34: 1477-1487.
61. **Menalled, F.**, A. C. Costamagna, P. C. Marino, and D. A. Landis. 2003. Temporal variation in the response of parasitoids to agricultural landscape structure. *Agriculture, Ecosystems and the Environment* 96: 29-35.
62. **Menalled, F.**, J. Lee, and D. Landis. 2001. Herbaceous filter strips in agroecosystems: implications for ground beetle (Coleoptera: Carabidae) conservation and invertebrate weed seed predation. *Great Lakes Entomologist* 34: 77-91.
63. **Menalled, F.**, K. Gross, and M. Hammond. 2001. Weed aboveground and seedbank community responses to agricultural management systems. *Ecological Applications* 11: 1586-1601.
64. Lee, J., **F. Menalled**, and, D. Landis. 2001. Refuge habitats modify impact of insecticide disturbance on carabid beetle communities. *Journal of Applied Ecology* 28: 472-483.
65. **Menalled, F.**, and M. Kelty M. 2001. Crown structure and biomass allocation strategies of three juvenile tropical tree species. *Plant Ecology* 152: 1-11.
66. McLachlan, J, D. Foster, and **F. Menalled**. 2000. Anthropogenic ties to late-successional structure and composition in four New England hemlock stands. *Ecology* 81: 717-733.

67. **Menalled, F.**, P. Marino, K. Renner, and D. Landis. 2000. Post-dispersal weed seed predation in Michigan crop fields as a function of agricultural landscape structure. *Agriculture, Ecosystems and the Environment*. 77: 193-202.
68. **Menalled, F.**, P. Marino, S. Gage, and D. Landis. 1999. Does agricultural landscape structure affect parasitism and parasitoid diversity? *Ecological Applications* 9: 634-641.
69. **Menalled, F.**, J. Lee, and D. Landis. 1999. Manipulating carabid beetle abundance alters prey removal rates in corn fields. *Biocontrol* 43: 441-456.
70. Carmona, D., **F. Menalled**, and D. Landis. 1999. Northern field cricket, *Gryllus pennsylvanicus* Burmeister (Orthoptera: Gryllidae): laboratory weed seed predation and within field activity-density. *Journal of Economic Entomology* 92: 825-829.
71. Vicari, R.L., **F. Menalled**, V. Di Stilio, S. Ucha, and N. Madanes. 1999. Productivity and nitrogen cycling in two poplar plantations (*Populus deltoides*) with different flooding dynamics in the Lower Delta of the Parana River, Buenos Aires (Argentina). *Physis* 57: 41-51.
72. **Menalled, F.**, M. Kelty, and J. Ewel. 1998. Canopy development in tropical tree plantations: a comparison of species mixtures and monocultures. *For. Ecol. Management* 104: 249-263.
73. Vicari, R.L., **F. Menalled**, V. Di Stilio, and N. Madanes. 1998. Litter decomposition in a poplar plantation (*Populus deltoides*) in the Lower Delta of the Parana River, Buenos Aires (Argentina). *Physis* 56: 9-13.
74. **Menalled, F.**, and J. Adamoli. 1995. A quantitative phytogeographic analysis of the species richness in forest communities of the Parana River Delta, Argentina. *Vegetatio* 120: 81-90.
75. Di Stilio, V., R.L. Vicari, and **F. Menalled**. 1995. Quantification of litterfall and nutrient contents in *Populus deltoides* plantations from the Parana River Lower Delta -Argentina-. *Physis* 50: 95-104.
76. **Menalled, F.**, M. Kelty, and J. Ewel. 1994. Canopy development of monocultures and species mixtures in forest plantations in Costa Rica. *IUFRO --In Proceedings of the Symposium on Mixed Stands, Portugal--*54: 10-11.
77. Boyle, T., **F. Menalled**, and M. O'Leavy. 1994. Occurrence and physiological breakdown of self-incompatibility in Easter Cactus. *Journal of the American Society of Horticulture Sciences* 119: 1060-1067.
78. Bonaventura, S., M. Castanera, **F. Menalled**, and C. Mourelle. 1992. Vegetation units of the Carahuasi and Lagunillas regions, Pozuelos basin -Argentina-. (In Spanish). *Biología de Altura* 3: 19-21.
79. Mendoza R., and **F. Menalled**. 1988. Residual effects following phosphate applications on four soils in the yield of *Lolium multiflorum*. (In Spanish). *Ciencias del Suelo* 6: 50-55.

### **Books / Booklets**

1. Parkinson, H., J. Mangold, and **F. Menalled**. 2013. Weed Seedling Identification Guide for Montana and the Northern Great Plains. Montana State University Extension, Bozeman, MT. 160 pages.
2. Dewey, S.A, S.E. Enloe, **F. Menalled**, S. Miller, R. Whitesides, and L. Johnson –Editors-. 2006. Weed Management Handbook 2006-2007. Montana, Utah, Wyoming. Cooperative Extension Services Press.

### **Book Chapters**

1. Smith. R.\*\*\*, M.R. Ryan, and **F. Menalled**. 2011. Direct and indirect impacts of weed management practices on soil quality. *Soil Management: Building a Stable Base for Agriculture*. J. Hatfield and T. Sauer, eds., pp 275-286. American Society of Agronomy Series.
2. Gan, Y., H.R. Kutcher, **F. Menalled**, G. Lafond, and S.A. Brandt. 2010. Intensifying production of using broadleaf crops in cereal-based cropping systems in the Northern Great Plains. *Current*

- Advancements in Soil Science and Agronomy Research in the Northern Great Plains. D. Malhi, ed., pp 277-299. Research Signpost, Kerala, India.
3. **Menalled, F.** 2008. Ecology and agriculture: Strategies for a sustainable development (*In Spanish*). Biology. 7<sup>th</sup> Edition in Spanish. H. Curtis; N. Sue, B. Arnes, A. Schnek and A. Massarini, eds. Editorial Médica Panamericana
  4. **Menalled, F.**, M. Liebman, and K. Renner. 2006. The ecology of weed seed predation in herbaceous crop systems. *In Handbook of Sustainable Weed Management*. D. Batish, ed., pp 297-327. The Haworth Press, Inc. Binghamton, NY.
  5. **Menalled, F.**, and M. Liebman. 2004. Seed predation by insects. *In Encyclopedia of Entomology*, J. Capinera, ed., pp 1979-1982. Kluwer Academic Press.
  6. **Menalled, F.**, and D. Landis. 2004. Conservation of ground beetles in annual crops. *In Encyclopedia of Entomology*, J. Capinera, ed., pp 593-595. Kluwer Academic Press.
  7. **Menalled, F.**, D. Landis, and L. Dyer. 2004. Research and extension supporting ecologically based IPM systems. *In New Dimensions in Agroecology*. D. Clements and A. Shrestha, eds., pp 153-174. The Haworth Press.
  8. **Menalled, F.**, J. Alvarez, and D. Landis. 2004. Molecular techniques, habitat management, and parasitoid conservation in annual cropping systems. *Ecological Engineering for Pest Management: Advances in Habitat Manipulation for Arthropods*. G Gurr, S. Wratten, and M. Altieri, eds., pp 101-115. CSIRO Press.
  9. **Menalled, F.**, and D. Landis. 2000. Principles of field crop pest ecology. *In Michigan Field Crop Pest Ecology*. Cavigelli, M.A. and L. K. Probyn, eds., pp 14-24. Michigan State University Extension Bulletin E-2704.
  10. Landis, A., **F. Menalled**, J. Lee, D. Carmona, and A. Pérez-Valdéz. 2000. Habitat modification to enhance biological control in IPM. *In Emerging Technologies in Integrated Pest Management: Concepts, Research and Implementation*. Kennedy G., T. Sutton eds., pp. 226-239. APS Press, St. Paul.
  11. Landis, D., and **F. Menalled**. 1998. Ecological considerations in the conservation of effective parasitoid communities in agricultural systems. *In Conservation Biological Control*, P. Barbosa ed., pp. 101-121. Academic Press. San Diego, CA.