

**MICHAEL P. HOFFMANN**

***EXECUTIVE DIRECTOR***

Cornell Institute for Climate Smart Solutions  
College of Agriculture and Life Sciences

***PROFESSOR***

Department of Entomology

***ADJUNCT PROFESSOR***

Earth and Atmospheric Sciences

105A Rice Hall  
Cornell University  
Ithaca, New York 14853  
(607) 255-3132  
[mph3@cornell.edu](mailto:mph3@cornell.edu)

**BACKGROUND**

**EDUCATION**

1990	<b>Ph.D.</b>	University of California, Davis, Entomology
1978	<b>M.S.</b>	University of Arizona, Entomology
1975	<b>B.S.</b>	University of Wisc. Green Bay, Ecosystems Analysis

**PROFESSIONAL EXPERIENCE**

2018	Interim Director, Northeast Integrated Pest Management Center
2015*-	Executive Director, Cornell Institute for Climate Smart Solutions
2005-2015	Director, Cornell University Agricultural Experiment Station and Associate Dean, College of Agriculture and Life Sciences
2003-2005	Associate Director of Cornell Cooperative Extension
2003-	Professor, Dept. of Entomology, Cornell University, Ithaca, NY
1999-2005	Director, NY State Integrated Pest Management Program
1996-2003	Associate Professor, Dept. of Entomology, Cornell University, Ithaca, NY
1990-1996	Assistant Professor, Dept. of Entomology, Cornell University, Ithaca, NY
1982-1990	Staff Research Associate IV, Dept. of Entomology, Univ. of Calif., Davis
1978-1982	Staff Research Associate II, Dept. of Ent. Cooperative Ext., UC, Riverside
1975-1978	Research Assistant, Dept. of Entomology, University of Arizona, Tucson

\* 20%: 80% academic: administrative appointment 1999 – current position

• **AWARDS AND RECOGNITION**

Experiment Station Section Award for Excellence in Leadership (2015)  
USDA, Research, Education and Economics; Bio Energy Awareness Days (BEAD II) Award  
(2008)  
Entomological Foundation Professional Award for *Excellence in Integrated Pest Management*,  
Entomological Society of America, Eastern Branch. (2006)

College of Agriculture and Life Sciences Faculty Leadership Development Program (2006, 2010)  
Outstanding New Extension Pub. Recognition. NYS Association of County Agric. Agents. (2004)  
Outstanding Extension Publication Award. The American Society for Horticultural Science  
(2003)  
US Environmental Protection Agency: Environmental Quality Award - NYS IPM Program  
(2003)  
USDA: CSREES, Experiment Station Committee on Organization and Policy and Academic  
Programs Committee on Organization and Policy Leadership Program (2000-2001)  
Outstanding New Extension Publication NY Association of County Agric. Agents (1994)  
Univ. of Calif., Davis, Administrative and Professional Staff Achievement Award (1988)  
Univ. of Calif., Davis, Chancellor's Special Performance Award for Staff (1987)  
Jastro-Shields Graduate Research Scholarship (1984-85) (1985-86)

### **ACADEMIC/ADMINISTRATIVE RESPONSIBILITIES**

#### **DEPARTMENTAL**

Professor of Entomology: Responsible for the development and implementation of IPM strategies for vegetable crops. Program emphasis was on insect population dynamics, biological control, development and application of insect behavior modifying chemicals, and alternative pest management tactics.

#### **ADMINISTRATIVE**

Executive Director of the Cornell Institute for Climate Smart Solutions  
Provide overall visionary leadership of the Cornell Institute for Climate Smart Solutions (CICSS). This encompasses staffing, programing, and execution of CICSS's mission. The Executive Director raises the profile of climate change and how CICSS, CALS and Cornell are positioned to respond to this challenge given the depth and breadth of the expertise among the faculty and programs. The Executive Director helps to ensure that CALS is recognized and rewarded for being the global leader in climate change and its impact on agriculture and the food system.

### **OTHER PROFESSIONAL ACTIVITIES**

#### **PROFESSIONAL SOCIETIES**

Entomological Society of America  
International Organization of Biological Control

#### **EDITORIAL BOARDS**

Editor: J. of Entomological Science (1995-1998)  
Editorial Board, Biological Control: Theory and Application in Pest Management, Academic Press, 2001-2003.

#### **COMMITTEES AND SERVICE**

##### **Agricultural Experiment Station Related:**

Experiment Station Committee on Organization and Policy, Incoming Chair, Chair, Past Chair (2012-14)  
Agricultural Experiment Station and Cooperative Extension Committee on Communication and Marketing (2012-14)  
Northeastern US and Eastern Canada Working Group on Climate Change and Agriculture (2011-14)  
Experiment Station Science & Technology Committee (2008-10)  
Northeast Sun Grant Initiative [biofuel], Steering Committee (2006-12)

Northeast Sun Grant Institute [biofuel] of Excellence, Executive Committee (2006-12)  
Northeastern Regional Association of State Agricultural Experiment Station Directors (2005-15)

**College and University Committees:**

Atkinson Center for a Sustainable Future, Faculty Advisory Committee (2008-18)  
CALs Advisory Council, Environ. Sustainability and Development Task Force (2006-08)  
CALs Farm, Forest and Plant Growth Advisory Committees (2007-15)  
Cornell Climate Action Acceleration Working Group, co-Chair (2014)  
Cornell Biological Field Station Advisory Committee (2006-09)  
Cornell Working Group on Sustainable Food & Agriculture Systems (1994-1998)  
Council of Environmental Deans and Directors: National Council for Science and the Environment (2010-14)  
Department Extension Leaders, Chair, (2003-2005)  
New York Sea Grant Board of Governors (2009-15)  
NY Farm Viability Institute, CALs Liaison (2007-15)  
NYS IPM Operating Committee (1999-15)  
NYSAES Advisory Council (2008-14)  
President's [Cornell] Sustainable Campus Committee, Executive Committee (2010-19), co-chair  
President's [Cornell] Sustainable Campus Advisory Committee, Chair (2013-15)  
Program Work Team for Climate Change (2007-)

**International/National/State:**

University and Industry Consortium (UIC) (2008-14)  
Organic Advisory Task Force, NY State Division of Agriculture and Markets (2008-11)  
NE Region Integrated Pest Management Center Steering & Advisory Committee (2000-)  
4<sup>th</sup> National IPM Symposium, Indianapolis, IN. Program Planning Committee (Chair) (2003)  
4<sup>th</sup> National IPM Symposium, Indianapolis, IN. Steering Committee (co-Chair) (2003)  
IPM Coordinator (CSREES, USDA) for NY State (1999-2006)  
National Biological Control Inst. (USDA: APHIS), Customer Advisory Grp., (1995-1999)  
China-US Scholar Exchange (1996, 2007)

**Grant and Program Review Panels:**

University of California IPM Program, Review panel Chair (2006)  
Western Regional IPM Grants Program (2005-08)  
New York Farm Viability Institute, Renewable energy subcommittee (2009-15)

**Graduate Faculty Activities, Post-Doctoral Associates:**

Director of Graduate Studies for Field of Entomology (1998-1999)  
Graduate Student Admissions (1996-1999)  
Graduate Students (Entomology, Plant Breeding, Rural Sociology, Agronomy, Fiber Science and Apparel Design, Fruit and Vegetable Sciences, Plant Protection)  
Major Advisor: M.S. 4, Ph.D. 5  
Minor Advisor: M.S. 9, Ph.D. 14  
Post-Doctoral Associates/Fellows: 7

**SELECTED (Recent) INVITED PRESENTATIONS, SEMINARS**

The Northeast Climate Hub Partners Meeting, *A new model for building collaborations: What did we learn from the 2017 US-Canada climate change Syracuse workshop*, March 15, 2018, Rutgers University.

PennAg Annual Meeting, *Climate Change: What it means for agriculture and food security*. March 21, 2018, Manheim, PA  
West Virginia University, *Climate change and our changing menu*. April 24, 2018. Morgantown, WV  
Faculty Legal Studies Workshop, *Climate Change & Our Changing Menu*. August 24, 2018. Cornell Law School  
Global Alliance for Climate Smart Agriculture, Climate change week (Keynote), *Our changing climate and what it means to agriculture and our food supply*. October 22, 2018. New York City  
North Country Climate Reality, Adirondack Communities: Preparing for and Responding to Climate Change, October 27, 2018. *Climate Change and Our Changing Menu*, October 27, 2018. Queensbury, NY  
2018 Long Island Food Conference, *What climate change means to the foods and beverages we need and love*. November 3, 2018, Brookville, NY  
Pennsylvania Association for Sustainable Agriculture (Keynote), Climate change and our global food system: A call to action. Dighton, MA, February 7, 2019.  
Southeastern Massachusetts Agricultural Partnership, (Keynote), Climate change and agriculture: Local to global challenges and opportunities. February 24, 2019.  
Cornell University – Wide Seminar Series, *What climate change means to the foods and beverages we need and love*. Lancaster, PA, April 15, 2019

#### TEDx/YouTube:

TEDx - [Climate Change: It's time to raise our voices](#).

[Climate change and our changing menu](#). West Virginia University

[Climate change: A call to action!](#) – a seminar given at Cornell University that describes in more detail how our food system is changing.

#### Op eds:

[It's time to raise our voices. It's time to roar](#), Medium

[Climate change could destroy our kids' lives if we don't act now](#), USA Today

[Trump May Have Just Started the End of Coffee](#), Fortune.com

[A changing climate means a changing menu](#), The Hill

[Climate change is not a hoax — ask any millennial seeing it firsthand](#), The Hill

[Vietnam — a microcosm of a globally changing climate](#), Medium

#### PATENTS

Aldrich, J. R., M. P. Hoffmann, J. P. Kochansky, W. R. Lusby, L. T. Wilson and F. G. Zalom.  
Pheromone compositions for attracting *Euschistus* spp. insects. U. S. Patent 5,447,718.

Hoffmann, M. P., P. Schwartz and J. M. Baird. Non-Woven fiber barriers for control of agricultural pests. U.S. Patent 6,052,943.

Frey, M. W., C. Xiang, M. P. Hoffmann, A. Taylor, and J. Gardner. [Biodegradable chemical delivery system](#). U.S. Patent 9,861,096

#### PUBLICATIONS

**Total Refereed: 102**

**Book Chapters: 10**

**Extension: 21 Technical/Proceedings: >75 Refereed:**

Wolfe, D., A. D. DeGaetano, G. M. Peck, M. Carey, L. Ziska, J. Lea-Cox, A. Kemanian, M. Hoffmann, and D. Hollinger. 2018. Unique Challenges and Opportunities for Northeastern U.S. Crop Production in a Changing Climate. *Climate Change*. 146: 231.  
<https://doi.org/10.1007/s10584-017-2109-7>

- Henderson, M. M., J. Gardner, R. A. Raguso, M. P. Hoffmann. 2016. *Trichogramma ostrinae* (Hymenoptera: Trichogrammatidae) response to relative humidity with and without host cues. *Biocontrol Science and Technology*. 27: 128-138.
- Brzozowski, L., B. M. Leckie, J. Gardner, M. P. Hoffmann, M. Mazourek. 2016. *Curcubita pepo* subspecies delineates striped cucumber beetle (*Acalymma vittatum*) preference. *Horticulture Research* 3, DOI: 10.1038/hortres.2016.28
- DiTamaso, A., K. M. Averill, M. P. Hoffmann, J. Fuchsberg, and J. E. Losey. 2016. Integrating insect, resistance, and floral resource management in weed control decision-making. *Weed Science*. 64:743-756.
- Gardner, J. and M. P. Hoffmann. 2016. [Aerodynamic separation of parasitized from unparasitized insect host eggs](#). *Biocontrol Science and Technology*. 26:5, 718-721, DOI: 10.1080/09583157.2016.1141174
- Dixon, M., M. B. Deline, K. McComas, L. Chambliss, & M. Hoffmann. 2015. Saving Energy at the Workplace: The Salience of Behavioral Antecedents and Sense of Community. *Energy Research and Social Science* 6: 121-127.
- Dixon, G., M. Deline, K. McComas, L. Chambliss & M. P. Hoffmann. 2015. Using comparative feedback to influence workplace energy conservation: A case study of a university campaign. *Environment and Behavior*. 47: 667-693
- Gardner, J., M. P. Hoffmann and M. Mazourek. 2015. Striped cucumber beetle aggregation in response to cultivar and flowering. *Environmental Entomology*. Doi: 10.1093/ee/nvu061
- Agnello, A. M., D. P. Kain, J. Gardner, P. D. Curtis, M. L. Ashdown and M. P. Hoffmann. 2014. Novel barriers to prevent dogwood borer (Lepidoptera: Sesiidae) and rodent damage in apples. *J. Econ. Entomol.* 107: 1179-1186.
- Gardner, J., T.-H. Yong, S. A. Pitcher, and M. P. Hoffmann. 2013. Overwintering of *Trichogramma ostrinae* (Hymenoptera: Trichogrammatidae) within target and non-target hosts. *Biocontrol Science and Technology*. DOI:10.1080/09583157.2012.761175
- Gardner, J., M. G. Wright, T. P. Kuhar, S. A. Pitcher and M. P. Hoffmann. 2012. Dispersal of *Trichogramma ostrinae* in Field Corn. *Biocontrol Science and Technology* 22: 1221-1233.
- Gardner, J., M. P. Hoffmann, S. A. Pitcher and J. P. Nyrop. 2012. Recurrent warming to improve cold storage of Trichogrammatids. *Biocontrol Science and Technology* 22: 261-270.
- Gardner, J., M. P. Hoffmann, S. A. Pitcher and J. K. Harper. 2011. Integrating insecticides and *Trichogramma ostrinae* to control European corn borer in sweet corn: Economic analysis. *Biological Control* 56: 9-16
- Kain, D. P., M. P. Hoffmann, J. Gardner, and A. Agnello. 2010. Physical barriers to prevent dogwood borer (Lepidoptera: Sesiidae) infestation of apple burrknots. *J. Entomol. Sci.* 45: 35-43
- Crampton, L. A. G. M. Loeb, K. A. Hoelmer, and M. P. Hoffmann. 2010. Effect of insecticide regimens on biological control of tarnished plant bug, *Lygus lineolaris*, by *Peristenus* spp., in New York State apple orchards. *J. Insect Science* 10:36
- Smyth, R. R., and M. P. Hoffmann. 2010. Seasonal incidence of two co-occurring adult parasitoids of *Acalymma vittatum* in New York State: *Centistes (Syrrhizus) diabroticae* and *Celatoria setosa*. *BioControl*. 55: 219-228.
- Gardner, J., M. P. Hoffmann, S. A. Cheever, A. J. Seaman, P. Westgate, and R. V. Hazzard. 2007. Large-scale releases of *Trichogramma ostrinae* to suppress *Ostrinia nubilalis* in commercially grown processing and fresh market sweet corn. *J. Appl. Entomol.* 131: 432-440.
- Fuchsberg, J. R., T.-H. Yong, J. E. Losey, M. E. Carter, and M. P. Hoffmann. 2007. Evaluation of corn leaf aphid (*Rhopalosiphum maidis*; Homoptera: Aphididae) honeydew as a food source for the egg parasitoid *Trichogramma ostrinae* (Hymenoptera: Trichogrammatidae). *Biological Control* 40:230-236.

- Yong, T.-H., S. Pitcher, J. Gardner, and M. P. Hoffmann. 2007. Odor specificity testing in the assessment of efficacy and non-target risk for *Trichogramma ostriniae* (Hymenoptera: Trichogrammatidae). *Biocontrol Science and Technology* 17: 135-153.
- Yong, T.-H. and M. P. Hoffmann. 2006. Habitat selection by the introduced biological control agent *Trichogramma ostriniae* (Hymenoptera: Trichogrammatidae) and implications for non-target effects. *Environmental Entomology* 35: 725-732.
- Hoffmann, M. P., S. A. Pitcher, S. A. Cheever, J. E. Losey, T. P. Kuhar, C. A. Laub, and R. R. Youngman. 2006. Efficacy of inoculative releases of *Trichogramma ostriniae* (Hymenoptera: Trichogrammatidae) against European corn borer *Ostrinia nubilalis* (Lepidoptera: Crambidae) in field corn. *Biological Control* 36: 345-349.
- Lobdell, C. E., T.-H. Yong, and M. P. Hoffmann. 2005. Host color preferences and short-range searching behavior of the egg parasitoid *Trichogramma ostriniae*. *Entomologia Experimentalis et Applicata* 116:127-134.
- Wright, M. G., M. P. Hoffmann, T. P. Kuhar, J. Gardner and S. A. Pitcher. 2005. Evaluating risks of biological control introductions: a probabilistic risk-assessment approach. *Biological Control*. 35:338-347.
- Morris, B. D., Foster, S. P., Smyth, R. R., Hoffmann, M. P., Roelofs, W. L., Franke, S., and Francke, W. 2005. Vittatalactone, alpha, beta-lactone from the striped cucumber beetle, *Acalymma vittatum*. *J. Nat. Prod.* 68:26-30.
- Kuhar, T. P., V. M. Barlow, M. P. Hoffmann, S. J. Fleischer, E. Groden, J. Gardner, R. Hazzard, M. G. Wright, S. A. Pitcher, J. Speese III, and P. Westgate. 2004. Potential of *Trichogramma ostriniae* (Hymenoptera: Trichogrammatidae) for biological control of European corn borer (Lepidoptera: Crambidae) in solanaceous crops. *J. Econ. Entomol.* 97: 1209-1216.
- Frantz, J. D., J. Gardner, M. P. Hoffmann, and M. M. Jahn. 2004. Greenhouse screening of *Capsicum* accessions for resistance to green peach aphid (*Myzus persicae*). *HortScience* 39: 1332-1335.
- Frantz, J. D., J. Gardner, M. P. Hoffmann and M. M. Jahn. 2004. Greenhouse screening of *Capsicum* accessions for resistance to European corn borer (*Ostrinia nubilalis*) *HortScience*. 39: 1336-1338.
- Curtis, P. D., E. D. Rowland, P. Jensen, M. P. Hoffmann, and J. M. Baird. 2004. Obstructive non-woven fiber barriers for reducing red-winged blackbird damage to sweet corn. *Crop Protection*. 23: 819-823.
- Hoffmann, M. P., R. Ayyappath, and J. Gardner. 2003. Effect of striped cucumber beetle (Coleoptera: Chrysomelidae) foliar feeding on pumpkin yield. *J. Entomol. Sci.* 38: 439-448.
- Stivers-Young, L. J., T. P. Kuhar, and M. P. Hoffmann. 2003. Pesticide use changes in New York vegetables: 1978 to 1998. *J. Extension*. 41: [www.joe.org/joe/2003april/rb2.shtml](http://www.joe.org/joe/2003april/rb2.shtml)
- Smyth, R. R., M. P. Hoffmann, and A. M. Shelton. 2003. Effects of host plant phenology on oviposition preference of *Crocidolomia pavonana* [F.] (Lepidoptera: Pyralidae). *Environ. Entomol.* 32: 756-764.
- Smyth, R. R., M. P. Hoffmann, and A. M. Shelton. 2003. Larval performance in relation to labile oviposition preference of *Crocidolomia pavonana* [F.] (Lepidoptera: Pyralidae) among phenological stages of cabbage. *Environ. Entomol.* 32: 765-770.
- Smyth, R. R. and M. P. Hoffmann. 2003 A male-produced aggregation pheromone facilitating *Acalymma vittatum* [F.] (Coleoptera: Chrysomelidae) early season host plant colonization. *J. Insect Behavior* 16: 347 - 359.
- Kuhar, T. P., M. P. Hoffmann, and L. J. Stivers-Young. 2003. Potato leafhopper economic injury levels on early-stage snap and dry kidney beans. *HortTech*. 13: 647-649.
- Kuhar, T. P., M. P. Hoffmann and M. G. Wright. 2003. Controlling European corn borer in vegetables with a parasitic wasp. *Pesticide Outlook*. 14: 99-101.
- Anderson, P. L., M. J. Weiss, R. L. Hellmich, M. P. Hoffmann, and M. G. Wright. 2003. Millet preference, effects of planting date on infestation, and adult and larval use of proso millet by *Ostrinia nubilalis* (Lepidoptera: Crambidae). *Econ. Entomol.* 96: 361-369.

- Tilmon, K. J. and M. P. Hoffmann. 2003. Biological control of *Lygus lineolaris* by *Peristenus* spp. in strawberry. *Biological Control*. 26: 287-292.
- Hoffmann, M. P., M. G. Wright, S. A. Pitcher, and J. Gardner. 2002. Inoculative releases of *Trichogramma ostrinae* for suppression of *Ostrinia nubilalis* (European corn borer) in sweet corn: Field biology and population dynamics. *Biological Control* 25: 249-258.
- Smyth, R. R., D. W. Tallamy, J. A. Renwick, and M. P. Hoffmann. 2002. Effects of age, sex, and dietary history on response to cucurbitacin in *Acalymma vittatum*. *Entomol. Exp. Applicata*. 104: 69-78.
- Smyth, R. R. and M. P. Hoffmann. 2002 Correspondence between rates of host plant consumption and responses to the *Acalymma vittatum* male-produced pheromone. *Physiological Entomol.* 27: 235-242.
- Kuhar, T. P., M. G. Wright, M. P. Hoffmann, S. A. Chenus. 2002. Life table studies of European corn borer (Lepidoptera: Crambidae) with and without inoculative releases of *Trichogramma ostrinae* (Hymenoptera: Trichogrammatidae). *Environ. Entomol.* 31: 482-489.
- Ayyappath, R., M. P. Hoffmann, and J. Gardner. 2002. Effect of striped cucumber beetle (Coleoptera: Chrysomelidae) foliar feeding on winter squash injury and yield. *J. Entomol. Sci.* 37: 236-243.
- Pitcher, S. A., M. P. Hoffmann, J. Gardner, M. G. Wright and T. P. Kuhar. 2002. Cold storage of *Trichogramma ostrinae* reared on *Sitotroga cerealella* eggs. *BioControl*. 47: 525-535.
- Petzoldt, C. S., S. Reiners and M. P. Hoffmann. 2002. Making New York vegetable crop and pest management systems information available in a user-friendly format. *Hort. Tech.* 12: 369-371.
- Wright, M. G., T. P. Kuhar, M. P. Hoffmann, and S. A. Chenus. 2002. Effect of inoculative releases of *Trichogramma ostrinae* on populations of *Ostrinia nubilalis* and damage to sweet corn and field corn. *Biological Control* 23: 149-155.
- Kuhar, T. P., L. J. Stivers-Young, M. P. Hoffmann, and A. G. Taylor. 2001. Control of corn flea beetle and Stewart's wilt in sweet corn with imidacloprid and thiamethoxam seed treatments. *Crop Protection* 21: 25-31.
- Hoffmann, M. P., T. P. Kuhar, J. M. Baird, J. Gardner, P. Schwartz, and A. M. Shelton. 2001. Non-woven fiber barriers for control of cabbage maggot and onion maggot (Diptera: Anthomyiidae). *J. Econ. Entomol.* 94: 1485-1491.
- Gardner, J., M. P. Hoffmann, M. E. Smith and M. G. Wright. 2001. Influence of plant age and genotype on resistance to European corn borer in sweet corn. *Maydica*. 46:111-116.
- Wright, M. G., M. P. Hoffmann, S. A. Chenus and J. Gardner. 2001. Dispersal behavior of *Trichogramma ostrinae* (Hymenoptera: Trichogrammatidae) in sweet corn fields: implications for augmentative releases against *Ostrinia nubilalis* (Lepidoptera: Crambidae). *Biological Control*. 22: 29-37.
- Hoffmann, M. P., P. R. Ode, D. L. Walker, J. Gardner, S. van Nouhuys and A. M. Shelton. 2001. Performance of *Trichogramma ostrinae* (Hymenoptera: Trichogrammatidae) reared on factitious hosts including the target host, *Ostrinia nubilalis* (Lepidoptera: Crambidae). *Biological Control*. 21: 1-10.
- Hoffmann, M. P., J. J. Kirkwyland and J. Gardner. 2000. Impact of western corn rootworm (Coleoptera: Chrysomelidae) on sweet corn and evaluation of insecticidal and cultural control options. *J. Econ. Entomol.* 93: 805-812.
- Gardner, J., M. P. Hoffmann and M. E. Smith. 2000. Resistance to European corn borer in processing sweet corn. *HortScience*. 35: 871-874.
- Schroeder, P. C., A. M. Shelton, C. S. Ferguson, M. P. Hoffmann and C. H. Petzoldt. 2000. Application of synthetic pheromone for management of diamondback moth, *Plutella xylostella* (L.), (Lepidoptera: Plutellidae) in cabbage. *Entomol. Exp. Applicata*. 94: 243-248.
- Hoffmann, M. P., R. Ayyappath and J. J. Kirkwyland. 2000. Yield response of pumpkin and winter squash to simulated cucumber beetle (Coleoptera: Chrysomelidae) feeding injury. *J. Econ. Entomol.* 93: 136-140.

- Tilmon, K. J., B. N. Danforth, W. H. Day and M. P. Hoffmann. 2000. Determining parasitoid species composition in a host population: a molecular approach. *Ann. Entomol. Soc. of Am.* 93: 640-647.
- Rajalahti, R. M., R. R. Bellinder and M. P. Hoffmann. 1999. Time of hilling and interseeded affects weed control and potato yield. *Weed Science.* 47: 215-225.
- Broadway, R. M., C. Gongora, W. C. Kain, J. P. Sanderson, J. A. Monroy, K. C. Bennet, J. B. Warner and M. P. Hoffmann. 1998. Novel chitinolytic enzymes with biological activity against herbivorous insects. *J. Chem. Ecol.* 24: 985-998.
- Riggs, Dale I. M., Michael P. Hoffmann and Larry C. Thetford. 1998. Treatment thresholds for European corn borer (Lepidoptera: Pyralidae) infestations in early-season fresh market sweet corn. *J. Entomol. Sci.* 33: 393-399.
- McDonald, D. G., C. J. Glynn, M. P. Hoffmann and C. H. Petzoldt. 1997. Effects of grower participation on onion IPM demonstrations. *Agriculture, Ecosystems & Environment.* 66: 131-138.
- Vasquez, L. A., A. M. Shelton, M. P. Hoffmann and R. T. Roush. 1997. Laboratory evaluation of commercial Trichogrammatid products for potential use against *Plutella xylostella*. *J. Biological Control* 9:143-148.
- Hoffmann, M. P., M. S. Orfanedes, L. H. Pedersen, J. J. Kirkwyland and E. R. Hoebeke. 1997. Survey of lady beetles (Coleoptera: Coccinellidae) in sweet corn using yellow sticky cards. *J. Entomol. Sci.* 32: 358-369.
- Pickett, C. H., S. E. Schoenig and M. P. Hoffmann. 1996. Establishment of the squash bug parasitoid, *Trichopoda pennipes* Fabr. (Diptera: Tachinidae), in northern California. *Pan-Pacific Entomologist.* 72: 220-226.
- Shelton, A. M., M. K. Kroening, S. D. Eigenbrode, C. Petzoldt, M. P. Hoffmann, J. A. Wyman, W. T. Wilsey, R. J. Cooley, and L. H. Pedersen. 1996. Diamondback moth (Lepidoptera: Plutellidae) contamination of cabbage transplants and the potential for insecticide resistance problems. *J. Entomol. Sci.* 31: 347-354.
- Hoffmann, M. P., J. J. Kirkwyland, R. F. Smith and R. F. Long. 1996 Field tests with kairomone-baited traps for cucumber beetles and corn rootworms in cucurbits. *Environ. Entomol.* 25: 1173-1181.
- Hoffmann, M. P., J. P. Nyrop, J. J. Kirkwyland, D. M. Riggs, D. O. Gilrein and D. D. Moyer. 1996. A sequential sampling plan for use in scheduling control of lepidopterous pests of fresh market sweet corn. *J. Econ. Entomol.* 89: 386-395.
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