



## CURRICULUM VITAE

### NAME

Paul Ode

### ADDRESS

Bioagricultural Sciences and Pest Management  
College of Agricultural Sciences

### PHONE

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Plant Sciences  
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### EDUCATION

- 1994 Ph D, Univ Wisconsin - Madison
- 1990 MS, Univ Wisconsin - Madison
- 1986 BA, Earlham College

### ACADEMIC POSITIONS

- 2017-2018 - Associate Professor (College of Agricultural Sciences)
- 2016-2017 - Associate Professor (College of Agricultural Sciences)
- 2015-2016 - Associate Professor (College of Agricultural Sciences)
- 2014-2015 (College of Agricultural Sciences)
- 2013-2014 (College of Agricultural Sciences)
- 2012-2013 (College of Agricultural Sciences)
- 2011-2012 (College of Agricultural Sciences)
- 2010-2011 (College of Agricultural Sciences)
- 2009-2010 (College of Agricultural Sciences)

### OTHER POSITIONS

- July 1, 2011 - Present Associate Professor, Colorado State University.
- August 16, 2008 - June 30, 2011 Assistant Professor, Colorado State University.
- November 1, 2002 - August 15, 2008 Assistant Professor, North Dakota State University.
- 1999 - 2002 Entomologist (GS-12), USDA-ARS, Beneficial Insects Introduction Laboratory.

1998 - 1999 Postdoctoral Research Associate, Texas A&M University.

1997 - 1998 NSF-NATO Postdoctoral Fellow, Leiden University (The Netherlands).

1996 - 1997 Maytag Postdoctoral Fellow, Arizona State University.

1994 - 1996 Postdoctoral Fellow - USDA Postdoctoral Area Award, University of California - Davis.

## **PUBLISHED WORKS**

### **Books**

Ode, P. J. (1994). *Female-biased sex allocation in the outcrossing parasitic wasp, Bracon hebetor Say (Hymenoptera: Braconidae)*.: University of Wisconsin-Madison., Not Peer Reviewed/Refereed

### **Refereed Journal Articles**

Brood-mate avoidance in the parasitic wasp Bracon hebetor Say. *Animal Behavior*, 49, 1239-1248., Peer Reviewed/Refereed

Chromosome number of the polyembryonic parasitoid Copidosoma floridanum (Ashmead) (Hymenoptera: Encyrtidae). *Annals of the Entomological Society of America*, 83, 834-837., Peer Reviewed/Refereed

Competition and brood reduction. *Behavioral Ecology*, 20, 403-409., Peer Reviewed/Refereed

Complementary sex determination in hymenopteran parasitoids and its implications for biological control. *Entomologia Sinica*, 10, 81-93., Peer Reviewed/Refereed

Complementary sex determination in the parasitoid wasp Cotesia vestalis (C-plutellae). *Journal of Evolutionary Biology*, 20, 340-348., Peer Reviewed/Refereed

Constrained oviposition and female-biased sex allocation in a parasitic wasp. *Oecologia*, 109, 547-555., Peer Reviewed/Refereed

Cyclodiene insecticide resistance in *Drosophila melanogaster* (Meigen) is associated with a temperature-sensitive phenotype. *Pesticide Biochemistry and Physiology*, 46, 73-77., Peer Reviewed/Refereed

Differential dispersal and female-biased sex allocation in a parasitic wasp. *Ecological Entomology*, 23, 314-318., Peer Reviewed/Refereed

Diploid males sire triploid daughters and sons in the parasitoid wasp Cotesia vestalis. *Heredity*, 99, 288-294., Peer Reviewed/Refereed

Direct comparison of PCR based monitoring for cyclodiene resistance in *Drosophila* populations with insecticide bioassay. *Pesticide Biochemistry and Physiology*, 48, 229-233., Peer Reviewed/Refereed

Effects of resource abundance on sex allocation by queens and workers in the desert seed-harvesting ant, *Messor pergandei*. *Behavioral Ecology and Sociobiology*, 51, 548-556., Peer Reviewed/Refereed

Entomophagous insects: progress in evolutionary and applied ecology. *Trends in Ecology and Evolution*, 10, 96-97., Peer Reviewed/Refereed

Environmental and genetic determinants of ovicide in the parasitic wasp Bracon hebetor. *Behavioral Ecology*, 8,

Evaluating biological control of fire ants using phorid flies. *Biological Control*, 30, 566-583., Peer Reviewed/Refereed

Experimental support for multiple-locus complementary sex determination in the parasitoid *Cotesia vestalis*. *Genetics*, 180, 1525-1535., Peer Reviewed/Refereed

Factors influencing brood sex ratios in polyembryonic Hymenoptera. *Oecologia*, 93, 343-348., Peer Reviewed/Refereed

Feeding behavior analysis of the soybean aphid (Hemiptera). *Journal of Economic Entomology*, 103, 648-653., Peer Reviewed/Refereed

Furanocoumarins and their detoxification in a tri-trophic interaction. *Chemoecology*, 16, 45-50., Peer Reviewed/Refereed

Generalist and specialist host-parasitoid associations respond differently to wild parsnip (*Pastinca sativa*) defensive chemistry. *Ecological Entomology* DOI: 101111/j1365-23112010, 36, 52-61., Peer Reviewed/Refereed

Host plant, host plant chemistry and the polyembryonic parasitoid *Copidosoma sosares*. *Oikos*, 104, 388-400., Peer Reviewed/Refereed

Host-searching and mating in an outbreeding parasitoid wasp. *Ecological Entomology*, 21, 27-33., Peer Reviewed/Refereed

Host-size dependent sex ratio theory and improving mass-reared parasitoid sex ratios. *Biological Control*, 24, 31-41., Peer Reviewed/Refereed

Hyperparasitism by *Ablerus clisiocampae* Ashmead (Hymenoptera: Aphelinidae). *Proceedings of the Entomological Society of Washington*, 101, 640-644., Peer Reviewed/Refereed

Impact of Rag1 aphid resistantsoybeans on *Binodoxys communis* (Hymenoptera:Braconidae), a parasitoid of soybean aphid(Hemiptera: Aphididae). *Environmental Entomology*, 41, 282-288., Peer Reviewed/Refereed

New records of *Copidosoma sosares* (Walker) (Hymenoptera). *Journal of the Kansas Entomological Society*, 80, 309-318., Peer Reviewed/Refereed

Oviposition vs offspring fitness in *Aphidius colemani* parasitizing different aphid species. *Entomologia Experimentalis et Applicata*, 115, 303-310., Peer Reviewed/Refereed

Parasitoid clutch size and irreversible evolution. *Ecology Letters*, 1, 139-141., Peer Reviewed/Refereed

PCR based monitoring of specific *Drosophila* (Diptera: Drosophilidae) cyclodiene resistance alleles in the presence and absence of selection. *Bulletin of Entomological Research*, 85, 9-May., Peer Reviewed/Refereed

Plant chemistry and natural enemy fitness. *Annual Review of Entomology*, 51, 163-185., Peer Reviewed/Refereed

Population structure, mating system, and sex-determining allele diversity of the parasitoid wasp *Habrobracon hebetor*. *Heredity*, 91, 373-381., Peer Reviewed/Refereed

Progeny and sex allocation decisions of the polyembryonic wasp *Copidosoma floridanum*. *Journal of Animal*

*Ecology*, 64, 213-224., Peer Reviewed/Refereed

Quantifying ecology: constructing life history tables. *American Biology Teacher*, 71, 295-299., Peer Reviewed/Refereed

Sex allocation and sexual asymmetries in intra-brood competition in the parasitic wasp *Bracon hebetor*. *Journal of Animal Ecology*, 65, 690-700., Peer Reviewed/Refereed

Sex allocation and the evolutionary transitions between solitary and gregarious parasitoid development. *American Naturalist*, 152, 759-763., Peer Reviewed/Refereed

Sibling rivalry and brood sex ratios in polyembryonic wasps. *Nature*, 360, 254-256., Peer Reviewed/Refereed

Single-locus complementary sex determination absent in *Heterospilus prosopidis* (Hymenoptera: Braconidae). *Heredity*, 95, 228-234., Peer Reviewed/Refereed

Sunflower stem weevil and its larval parasitoids in native sunflowers: is parasitoid abundance and diversity greater in the US Southwest? *Environmental Entomology* doi: 10.1603/EN10068, 40, 15-22., Peer Reviewed/Refereed

Tritrophic effects of xanthotoxin on the polyembryonic parasitoid *Copidosoma sosares* (Hymenoptera). *Journal of Chemical Ecology*, 34, 783-790., Peer Reviewed/Refereed

Variable sex ratio shifts and ovicide in an outbreeding parasitic wasp. *Animal Behaviour*, 49, 589-600., Peer Reviewed/Refereed

Cockrell, D. M., Griffin-Nolan, R. J., Rand, T. A., Altılmisani, N., Ode, P. J., Peairs, F. B. (2017). Host plants of the wheat stem sawfly (Hymenoptera: Cephidae). *Environmental Entomology*, 46, 847-854., Peer Reviewed/Refereed

Ode, P. J., Harvey, J., Reichelt, M., Gershenson, J., Gols, R. (in press). Differential induction of plant chemical defenses by parasitized and unparasitized herbivores: consequences for reciprocal, multitrophic interactions. *Oikos*, Peer Reviewed/Refereed

Jessup, J., Ode, P. J., Balgopal, M. M. (in press). Competition for limiting resources: quantitative reasoning in evolutionary ecology. *American Biology Teacher*, Peer Reviewed/Refereed

Chirumamilla, A., Knodel, J. J., Charlet, L. D., Hulke, B. S., Foster, S. P., Ode, P. J. (2014). Ovipositional preference and larval performance of the banded sunflower moth (Lepidoptera: Cochylidae) and its larval parasitoids on resistant and susceptible lines of sunflower (Asterales: Asteraceae). *Environmental Entomology*, 42. dx.doi.org/10.1603/EN13157, Peer Reviewed/Refereed

Ode, P. J., Johnson, S. N., Moore, B. D. (2014). Atmospheric chance and induced plant secondary metabolites - are we reshaping the building blocks of multi-trophic interactions? *Current Opinion in Insect Science*, 5, 57-65., Peer Reviewed/Refereed

Ode, P. J., Crompton, D. S. (2013). Compatibility of aphid resistance in soybean and biological control by the parasitoid *Aphidius colemani* (Hymenoptera: Braconidae). *Biological Control* doi:10.1016/j.bioc.2012.12.001, 64, 255-262., Peer Reviewed/Refereed

Hardy, I. C., Ode, P. J. (2007). Why biocontrol practitioners should be more interested in parasitoid sex ratios. *Biocontrol News and Information*, 28, 49-51., Peer Reviewed/Refereed

Antolin, M. F., Ode, P., Heimpel, G., O'Hara, R., Strand, M. (2003). Population structure, mating system, and sex-determining allele diversity of the parasitoid wasp *Habrobracon hebetor*. *Heredity*, 91(4), 373–381., Peer Reviewed/Refereed

Ode, P. J., Antolin, M. F., STRAND, M. R. (1998). Differential dispersal and female-biased sex allocation in a parasitic wasp. *Ecological Entomology*, 23(3), 314–318., Peer Reviewed/Refereed

Ode, P. J., Antolin, M. F., Strand, M. R. (1997). Constrained oviposition and female-biased sex allocation in a parasitic wasp. *Oecologia*, 109(4), 547–555., Peer Reviewed/Refereed

Takasu, K., Ode, P. J., Antolin, M. F., Strand, M. R. (1997). Environmental and genetic determinants of ovicide in parasitic wasp *Bracon hebetor*. *Behavioral Ecology*, 8(6), 647–654., Peer Reviewed/Refereed

Guertin, D., Ode, P. J., Strand, M., Antolin, M. F. (1996). Host-searching and mating in an outbreeding parasitoid wasp. *Ecological Entomology*, 21(1), 27–33., Peer Reviewed/Refereed

Ode, P. J., Antolin, M. F., STRAND, M. R. (1995). Brood-mate avoidance in the parasitic wasp *Bracon hebetor* Say. *Animal Behaviour*, 49(5), 1239–1248., Peer Reviewed/Refereed

Antolin, M. F., Ode, P. J., Strand, M. R. (1995). Variable sex ratios and ovicide in an outbreeding parasitic wasp. *Animal Behaviour*, 49(3), 589–600., Peer Reviewed/Refereed

## Non-Refereed Journal Articles

Hardy, I. C., Ode, P. J., Siva-Jothy, M. T. MATING BEHAVIOUR 4. *Springer*., Not Peer Reviewed/Refereed

The evolution and adaptive significance of sex size dimorphism in the polyembryonic parasitoid, *Copidosoma floridanum*. *American Zoologist*, 39, 13A., Not Peer Reviewed/Refereed

Ode, P. J., Heimpel, G. E. (2016). Editorial overview: Parasites/parasitoids/biological control: Communities without parasitoids? *Current Opinion in Insect Science*, 14, viii–x., Not Peer Reviewed/Refereed

Kaser, J. M., Ode, P. J. (2016). Hidden risks and benefits of natural enemy-mediated indirect effects. *Current Opinion in Insect Science*, 14, 105–111., Not Peer Reviewed/Refereed

Kaplan, I., Carrillo, J., Garvey, M., Ode, P. J. (2016). Indirect plant–parasitoid interactions mediated by changes in herbivore physiology. *Current Opinion in Insect Science*, 14, 112–119., Not Peer Reviewed/Refereed

Peterson, J. A., Ode, P. J., Oliveira-Hofman, C., Harwood, J. D. (2016). Integration of plant defense traits with biological control of arthropod pests: challenges and opportunities. *Frontiers in Plant Science*, 7., Not Peer Reviewed/Refereed

Lestina, J., Cook, M., Kumar, S., Morissette, J., Ode, P. J., Peairs, F. B. (2016). MODIS Imagery Improves Pest Risk Assessment: A Case Study of Wheat Stem Sawfly (*Cephus cinctus*, Hymenoptera: Cephidae) in Colorado, USA. *Environmental Entomology*, nww095., Not Peer Reviewed/Refereed

Harvey, J. A., Ode, P. J., Malcicka, M., Gols, R. (2016). Short-term seasonal habitat facilitation mediated by an insect herbivore. *Basic and Applied Ecology*., Not Peer Reviewed/Refereed

Kaiser, L. M. R., Ode, P. J., van Nouhuys, S., Calatayud, P.-A., Colazza, S., Cortesero, A.-M., Thiel, A., van Baaren, J. (2016). The plant as a habitat for entomophagous insects. *Advances in Botanical Research*., Not Peer Reviewed/Refereed

Ode, P. J., Johnson, S. N., Moore, B. D. (2014). Atmospheric change and induced plant secondary metabolites—are we reshaping the building blocks of multi-trophic interactions? *Current Opinion in Insect Science*, 5, 57–65., Not Peer Reviewed/Refereed

Chirumamilla, A., Knodel, J. J., Charlet, L. D., Hulke, B. S., Foster, S. P., Ode, P. J. (2014). Ovipositional preference and larval performance of the banded sunflower moth (Lepidoptera: Tortricidae) and its larval parasitoids on resistant and susceptible lines of sunflower (Asterales: Asteraceae). *Environmental entomology*, 43(1), 58–68., Not Peer Reviewed/Refereed

Ode, P., Crompton, D. (2013). Compatibility of aphid resistance in soybean and biological control by the parasitoid *Aphidius colemani* (Hymenoptera: Braconidae). *Biological Control*, 64(3), 255–262., Not Peer Reviewed/Refereed

Ghising, K., Harmon, J. P., Beauzay, P. B., Prischmann-Voldseth, D. A., Helms, T. C., Ode, P. J., Knodel, J. J. (2012). Impact of Rag1 aphid resistant soybeans on *Binodoxys communis* (Hymenoptera: Braconidae), a parasitoid of soybean aphid (Hemiptera: Aphididae). *Environmental entomology*, 41(2), 282–288., Not Peer Reviewed/Refereed

Lampert, E. C., Zangerl, A. R., Berenbaum, M. R., Ode, P. J. (2011). Generalist and specialist host-parasitoid associations respond differently to wild parsnip (*Pastinaca sativa*) defensive chemistry. *Ecological Entomology*, 36(1), 52–61., Not Peer Reviewed/Refereed

Ode, P. J., Charlet, L. D., Seiler, G. J. (2011). Sunflower stem weevil and its larval parasitoids in native sunflowers: is parasitoid abundance and diversity greater in the US Southwest? *Environmental entomology*, 40(1), 15–22., Not Peer Reviewed/Refereed

Crompton, D., Ode, P. (2010). Feeding behavior analysis of the soybean aphid (Hemiptera: Aphididae) on resistant soybean ‘Dowling’. *Journal of economic entomology*, 103(3), 648–653., Not Peer Reviewed/Refereed

Pexton, J. J., de Boer, J. G., Heimpel, G. E., Vet, L. E., Whitfield, J. B., Ode, P. J. (2009). Competition and brood reduction: testing alternative models of clutch-size evolution in parasitoids. *Behavioral Ecology*, 20(2), 403–409., Not Peer Reviewed/Refereed

Balgopal, M. M., Ode, P. J. (2009). Quantifying Ecology: Constructing Life History Tables. *The American Biology Teacher*, 71(5), 295–299., Not Peer Reviewed/Refereed

de Boer, J. G., Ode, P. J., Rendahl, A. K., Vet, L. E., Whitfield, J. B., Heimpel, G. E. (2008). Experimental support for multiple-locus complementary sex determination in the parasitoid *Cotesia vestalis*. *Genetics*, 180(3), 1525–1535., Not Peer Reviewed/Refereed

Ode, P. J., Hardy, I. C. (2008). Parasitoid sex ratios and biological control. *Behavioural ecology of insect parasitoids—from theoretical approaches to field applications* (eds E. Wajnberg, C. Bernstein & J. van Alphen), 253–291., Not Peer Reviewed/Refereed

Lampert, E. C., Zangerl, A. R., Berenbaum, M. R., Ode, P. J. (2008). Tritrophic effects of xanthotoxin on the polyembryonic parasitoid *Copidosoma sosares* (Hymenoptera: Encyrtidae). *Journal of chemical ecology*, 34(6), 783–790., Not Peer Reviewed/Refereed

Hopper, K. R., Acheampong, S., Alleyne, M., Bancroft, J., Beck, M., Chantos, J. M., Chow, A., Colazza, S., Coll, M., Consoli, F., others (2007). *Journal of Insect Science*, 7(1), 16., Not Peer Reviewed/Refereed

Ode, P. J. (2007). Cabbage, cabbage loopers, and *Copidosoma*: Multi-trophic effects of plant quality on a

generalist herbivore and its specialist parasitoid. *The 2007 ESA Annual Meeting, December 9-12, 2007.*, Not Peer Reviewed/Refereed

De Boer, J., Ode, P., Vet, L., Whitfield, J., Heimpel, G. (2007). Complementary sex determination in the parasitoid wasp *Cotesia vestalis* (C. *plutellae*). *Journal of Evolutionary Biology*, 20(1), 340–348., Not Peer Reviewed/Refereed

De Boer, J., Ode, P., Vet, L., Whitfield, J., Heimpel, G. (2007). Diploid males sire triploid daughters and sons in the parasitoid wasp *Cotesia vestalis*. *Heredity*, 99(3), 288–294., Not Peer Reviewed/Refereed

Crompton, D. S., Ode, P. J. (2007). FEEDING BEHAVIOR ANALYSIS OF SOYBEAN APHID (HOMOPTERA. *Soybean Aphid, Aphis Glycines Matsumura (Homoptera: Aphididae): A New Pest in the Red River Valley of the North*, 57., Not Peer Reviewed/Refereed

de Boer, J. G., Ode, P. J., Vet, L. E., Heimpel, G. (2007). Multiple locus complementary sex determination in the parasitoid wasp *Cotesia vestalis*. *Journal of Insect Science*, 7, 5–6., Not Peer Reviewed/Refereed

Carroll, M. J., Lampert, E. C., Berenbaum, M. R., Noyes, J. S., Ode, P. J. (2007). New Records of *Copidosoma sosares* (Walker)(Hymenoptera: Encyrtidae), a Parasitoid of the Parsnip Webworm (*Depressaria pastinacella* (Duponchel))(Lepidoptera: Elachistidae), in Western North America. *Journal of the Kansas Entomological Society*, 80(4), 309–318., Not Peer Reviewed/Refereed

Ode, P. J. (2007). NEW RECORDS OF COPIDOSOMA SOSARES (WALKER, 1837). *Tritrophic Effects of Furanocoumarins on Development and Life History of Polyembryonic Parasitoids*, 80., Not Peer Reviewed/Refereed

Crompton, D. S., Ode, P. J. (2007). OVERWINTERING POTENTIAL AND COLONIZATION DYNAMICS OF THE. *Soybean Aphid, Aphis Glycines Matsumura (Homoptera: Aphididae): A New Pest in the Red River Valley of the North*, 32., Not Peer Reviewed/Refereed

Lampert, E. C., Zangerl, A. R., Berenbaum, M. R., Ode, P. J. (2007). TRITROPHIC EFFECTS OF XANTHOTOXIN ON THE POLYEMBRYONIC. *Tritrophic Effects of Furanocoumarins on Development and Life History of Polyembryonic Parasitoids*, 32., Not Peer Reviewed/Refereed

Hardy, I., Ode, P. (2007). Why biocontrol practitioners should be more interested in parasitoid sex ratios. *Biocontrol News and Information*, 28, 49–51., Not Peer Reviewed/Refereed

McGovern, J. L., Zangerl, A. R., Ode, P. J., Berenbaum, M. R. (2006). Furanocoumarins and their detoxification in a tri-trophic interaction. *Chemoecology*, 16(1), 45–50., Not Peer Reviewed/Refereed

Ode, P. J. (2006). Plant chemistry and natural enemy fitness: effects on herbivore and natural enemy interactions. *Annu. Rev. Entomol.*, 51, 163–185., Not Peer Reviewed/Refereed

Ode, P. J. (2005). Host plant chemistry in native and introduced systems: effects of furanocoumarins on the parasitoid *Copidosoma sosares*. *The 2005 ESA Annual Meeting and Exhibition.*, Not Peer Reviewed/Refereed

Ode, P. J., Hopper, K. R., Coll, M. (2005). Oviposition vs. offspring fitness in *Aphidius colemani* parasitizing different aphid species. *Entomologia experimentalis et applicata*, 115(2), 303–310., Not Peer Reviewed/Refereed

Wu, Z., Hopper, K., Ode, P., Fuester, R., Tuda, M., Heimpel, G. (2005). Single-locus complementary sex determination absent in *Heterospilus prosopidis* (Hymenoptera: Braconidae). *Heredity*, 95(3), 228–234., Not Peer Reviewed/Refereed

Mottern, J. L., Heinz, K. M., Ode, P. J. (2004). Evaluating biological control of fire ants using phorid flies: effects on competitive interactions. *Biological Control*, 30(3), 566–583., Not Peer Reviewed/Refereed

J Ode, P., R Berenbaum, M., R Zangerl, A., CW Hardy, I. (2004). Host plant, host plant chemistry and the polyembryonic parasitoid *Copidosoma sosares*: indirect effects in a tritrophic interaction. *Oikos*, 104(2), 388–400., Not Peer Reviewed/Refereed

Ode, P. J. (2004). Variation in sex allocation decisions and parasitoid mass-rearing programs. *The 2004 ESA Annual Meeting and Exhibition.*, Not Peer Reviewed/Refereed

Aebi, A., Amalin, D. M., Andow, D., Armer, C. A., Asplen, M. K., Bellamy, D. E., Benrey, B., Boivin, G., Buffington, M. L., Byrne, D. N., others (2003). *Journal of Insect Science*, 3(1), 33., Not Peer Reviewed/Refereed

Zhishan, W., Hopper, K. R., Ode, P. J., Fuester, R. W., Jia-hua, C., Heimpel, G. E. (2003). Complementary sex determination in hymenopteran parasitoids and its implications for biological control. *Insect Science*, 10(2), 81–93., Not Peer Reviewed/Refereed

Antolin, M., Ode, P., Heimpel, G., O’Hara, R., Strand, M. (2003). Population structure, mating system, and sex-determining allele diversity of the parasitoid wasp *Habrobracon hebetor*. *Heredity*, 91(4), 373–381., Not Peer Reviewed/Refereed

Ode, P. J., Hopper, K. R., Heimpel, G. (2002). Complementary sex determination in *Aphidius colemani*. *The 2002 ESA Annual Meeting and Exhibition.*, Not Peer Reviewed/Refereed

Ode, P. J., Heinz, K. M. (2002). Host-size-dependent sex ratio theory and improving mass-reared parasitoid sex ratios. *Biological Control*, 24(1), 31–41., Not Peer Reviewed/Refereed

Fuester, R. W., Swan, K. S., Taylor, P. B., Hopper, K. R., Ode, P. J., others (2002). Male-biased sex ratios in laboratory rearings of gypsy moth parasitoids. *Interagency Research Forum on Gypsy Moth and Other Invasive Species 2002*, 24., Not Peer Reviewed/Refereed

Ode, P. J., Rissing, S. W. (2002). Resource abundance and sex allocation by queen and workers in the harvester ant, *Messor pergandei*. *Behavioral ecology and sociobiology*, 51(6), 548–556., Not Peer Reviewed/Refereed

Ode, P. J., Hunter, M. S. (2002). Sex ratios of parasitic Hymenoptera with unusual life-histories. *Sex ratios: concepts and research methods*. Cambridge University Press, Cambridge, 218–234., Not Peer Reviewed/Refereed

Ode, P. J., Hopper, K. R., Coll, M. (2001). Host range differences among populations of the aphid parasitoid *Aphidius colemani*., Not Peer Reviewed/Refereed

Kattari, D., Heimpel, G., Ode, P., Rosenheim, J. (1999). Hyperparasitism by *Ablerus clisiocampae* Ashmead (Hymenoptera: Aphelinidae). *Proceedings of the Entomological Society of America*, 101, 640–644., Not Peer Reviewed/Refereed

Ode, P. J., ANTOLIN, M., STRAND, M. (1998). Differential dispersal and female-biased sex allocation in a parasitic wasp. *Ecological Entomology*, 23(3), 314–318., Not Peer Reviewed/Refereed

Mayhew, P., Ode, P., Hardy, I., Rosenheim, J. (1998). Parasitoid clutch size and irreversible evolution. *Ecology Letters*, 1(3), 139–141., Not Peer Reviewed/Refereed

Ode, P. J., Rosenheim, J. A. (1998). Sex allocation and the evolutionary transition between solitary and gregarious parasitoid development. *The American Naturalist*, 152(5), 757–761., Not Peer Reviewed/Refereed

Ode, P. J., Antolin, M. F., Strand, M. R. (1997). Constrained oviposition and female-biased sex allocation in a parasitic wasp. *Oecologia*, 109(4), 547–555., Not Peer Reviewed/Refereed

Takasu, K., Ode, P. J., Antolin, M. F., Strand, M. R. (1997). Environmental and genetic determinants of ovicide in parasitic wasp Bracon hebetor. *Behavioral Ecology*, 8(6), 647–654., Not Peer Reviewed/Refereed

Guertin, D., Ode, P., Strand, M., Antolin, M. (1996). Host-searching and mating in an outbreeding parasitoid wasp. *Ecological Entomology*, 21(1), 27–33., Not Peer Reviewed/Refereed

Ode, P. J., Antolin, M. F., Strand, M. R. (1996). Sex allocation and sexual asymmetries in intra-brood competition in the parasitic wasp Bracon hebetor. *Journal of Animal Ecology*, 690–700., Not Peer Reviewed/Refereed

Ode, P. J., ANTOLIN, M. F., STRAND, M. R. (1995). Brood-mate avoidance in the parasitic wasp Bracon hebetor. *Animal Behaviour*, 49(5), 1239–1248., Not Peer Reviewed/Refereed

Hardy, I. C., van Alphen, J. J., Heimpel, G. E., Ode, P. J. (1995). Entomophagous insects: progress in evolutionary and applied ecology. *Trends in ecology & evolution*, 10(3), 96–97., Not Peer Reviewed/Refereed

Aronstein, K., Ode, P. J., ffrench-Constant, R. (1995). PCR based monitoring of specific Drosophila (Diptera: Drosophilidae) cyclodiene resistance alleles in the presence and absence of selection. *Bulletin of Entomological Research*, 85(1), 5–9., Not Peer Reviewed/Refereed

Ode, P. J., Strand, M. R. (1995). Progeny and sex allocation decisions of the polyembryonic wasp Copidosoma floridanum. *Journal of Animal Ecology*, 213–224., Not Peer Reviewed/Refereed

Antolin, M. F., Ode, P. J., Strand, M. R. (1995). Variable sex ratios and ovicide in an outbreeding parasitic wasp. *Animal Behaviour*, 49(3), 589–600., Not Peer Reviewed/Refereed

Aronstein, K., Ode, P. J., ffrench-Constant, R. (1994). Direct comparison of PCR based monitoring for cyclodiene resistance in Drosophila populations with insecticide bioassay. *Pesticide Biochemistry and Physiology*, 48, 229–233., Not Peer Reviewed/Refereed

Aronstein, K., Ode, P. J. (1994). ffrench-Constant, R. (1995) *Immunocytochem.*, Not Peer Reviewed/Refereed

ffrench-Constant, R., JC, S., Ode, P. (1993). Cyclodiene insecticide resistance in Drosophila melanogaster (Meigen) is associated with a temperature-sensitive phenotype. *Pesticide Biochemistry and Physiology*, 46, 73–77., Not Peer Reviewed/Refereed

Hardy, I. C., Ode, P. J., Strand, M. R. (1993). Factors influencing brood sex ratios in polyembryonic Hymenoptera. *Oecologia*, 93(3), 343–348., Not Peer Reviewed/Refereed

Grbic, M., Ode, P. J., Strand, M. R. (1992). Sibling rivalry and brood sex ratios in polyembryonic wasps. *Nature Publishing Group.*, Not Peer Reviewed/Refereed

Strand, M., Ode, P. (1990). Chromosome number of the polyembryonic parasitoid Copidosoma floridanum (Hymenoptera: Encyrtidae). *Annals of the Entomological Society of America*, 83(4), 834–837., Not Peer Reviewed/Refereed

Ward, G. L., Ode, P. J. (1983). Current Status of the Blue Wasp, Chalybion zimmermanni Dahlborn in Southeastern Indiana. *Proceedings of the Indiana Academy of Science*, 93, 229–230., Not Peer Reviewed/Refereed

Reviewed/Refereed

## Non-Refereed Chapters in Books

Ode, P. (2013). Plant defences and parasitoid chemical ecology. *Chemical Ecology of Insect Parasitoids* (pp. 11–36).: John Wiley & Sons., Not Peer Reviewed/Refereed

Ode, P. J. (2013). Plant defenses and parasitoid chemical ecology. *Chemical Ecology of Insect Parasitoids*.: John Wiley & Sons., Not Peer Reviewed/Refereed

Hardy, I. C., Ode, P. J., Siva-Jothy, M. (2007). Mating systems. *Insects as natural enemies* (pp. 261–298).: Springer Netherlands., Not Peer Reviewed/Refereed

Hardy, I. C., Ode, P. J., Siva-Jothy, M. (2005). Mating systems. *Insects as Natural Enemies* (pp. 261–298).: Springer., Not Peer Reviewed/Refereed

## Non-Refereed Proceedings or Transactions

Lampert, E., Ode, P. J. (2007). Battle of the sexes in the parasitoid *Copidosoma sosares*. *JOURNAL OF INSECT SCIENCE* (vol. 7, pp. 13–14).: Not Peer Reviewed/Refereed

Corley, L., Strand, M., Ode, P. (1999). The evolution and adaptive significance of sexual size dimorphism in the polyembryonic parasitoid, *Copidosoma floridanum*. *AMERICAN ZOOLOGIST* (5th ed., vol. 39, pp. 13A–13A).: Not Peer Reviewed/Refereed

*Battle of the sexes in the parasitoid *Copidosoma sosares** (vol. 7, pp. 13-14).: Journal of Insect Science., Not Peer Reviewed/Refereed

*Host range and host choice in the aphid parasitoid *Aphidius colemani* (20th Conference of the Entomological Society of Israel, Feb 11-12, 2003)* (vol. 31).: Phytoparasitica., Not Peer Reviewed/Refereed

*Multi-trophic effects of wild cabbage glucosinolates on a generalist herbivore and its specialist parasitoid*.: Ecological Society of America doi: 101890/20009annualmeeting., Not Peer Reviewed/Refereed

*Multiple locus complementary sex determination in the parasitoid wasp *Cotesia vestalis** (vol. 7, pp. 6-May).: Journal of Insect Science., Not Peer Reviewed/Refereed

*Native sunflower in the central and northern Plains as sources for resistance and natural enemies of cultivated sunflower: banded sunflower moth and sunflower stem weevil*.: Proceedings of the 27th Sunflower Research Workshop, National Sunflower Association, Fargo, ND., Not Peer Reviewed/Refereed

*Tritrophic effects of host plant chemistry on the polyembryonic parasitoid *Copidosoma sosares* (XIIIth International Entomophagous Insects Workshop - July 27-31, 2003, Tucson, AZ)* (vol. 5).: Journal of Insect Science., Not Peer Reviewed/Refereed

## Book Review

*Mating behaviour* (pp. 219-260).: Jervis M (ed) *Insects as Natural Enemies: a practical perspective* Springer, Dordrecht, The Netherlands., Peer Reviewed/Refereed

*Mating systems* (pp. 261-298).: Jervis M (ed) *Insects as Natural Enemies: a practical perspective* Springer, Dordrecht, The Netherlands., Peer Reviewed/Refereed

*Parasitoid sex ratios and biological control* (pp. 253-291).: Wajnberg E, Bernstein C, van Alphen J (eds) Behavioral Ecology of Insect Parasitoids: from theoretical approaches to field applications Blackwell Publishing, Oxford, UK., Peer Reviewed/Refereed

(in press). *Plant defenses and chemical ecology*.: Chapter 2 in É Wajnberg and S Colazza, editors Chemical Ecology of Insect Parasitoids Wiley-Blackwell, West Sussex, UK., Peer Reviewed/Refereed

*Sex ratios of parasitic Hymenoptera with unusual life histories* (pp. 218-234).: Hardy ICW (ed) Sex Ratios: concepts and research methods Cambridge University Press, Cambridge, UK., Peer Reviewed/Refereed

## **PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS**

October 6, 2016, "Trends in insect biocontrol releases - 1980 - present", W3185 Western Biological Control Working Group Annual Meeting.

November 18, 2015, "Plant defense chemistry effects on parasitoid size vs. number tradeoffs: females get smaller but males become fewer", Entomology 2015, Entomological Society of America, (Presenter) Ode, P. J.

November 18, 2015, "Theoretical support for balancing selection and reduced diploid male production in multiple-locus complementary sex determination", Entomology 2015, Entomological Society of America, (Presenter) Weis, J.

November 17, 2015, "Ovipositional preference of wheat stem sawflies, *Cephus cinctus*", Entomology 2015, Entomological Society of America, (Presenter) Altilmisani, N.

November 16, 2015, "A glimpse of changes to come: effects of elevated CO<sub>2</sub> on a tri-trophic system", Entomology 2015, Entomological Society of America, (Presenter) Paul, R. L.

November 16, 2015, "Damaged goods: how *Cotesia glomerata* responds to hosts parasitized by its competitor, *C. rubecula*", Entomology 2015, Entomological Society of America, (Presenter) Vyas, D.

November 16, 2015, "Gall insects: plant mediated interactions impact insect preference and performance", Entomology 2015, Entomological Society of America, (Presenter) Barosh, T. A.

October 29, 2015, "Is the enemy of my enemy really my friend?: can parasitoids influence plant defense traits against herbivores?", Purdue University, (Presenter) Ode, P. J.

October 21, 2015, "Is the enemy of my enemy really my friend?: reciprocal interactions among wild cabbage, cabbage loopers, and *Copidosoma floridanum*", BSPM seminar series, CSU: BSPM, (Presenter) Ode, P. J.

October 6, 2015, "Changing trophic interactions in a changing climate", 4th International Entomophagous Insects Conference, International Entomophagous Insects Conference, peer-reviewed/refereed.

April 29, 2015, "Causes and consequences of competitive displacement in *Cotesia* parasitoids", NIFA Project Director Workshop, USDA AFRI Plant-Associated Insects and Nematodes Program, (Presenter) Ode, P. J.

March 24, 2015, "Constructing a database of biocontrol agents of insect pests", APHIS CPHST, (Presenter) Anderson, A. G.

November 19, 2014, "Are we getting better at this? An examination of biocontrol establishment and success rates through time.", 62nd Annual Meeting of the Entomological Society of America, (Presenter) Anderson, A., Portland, OR.

November 16, 2014, "The enemy of my enemy is not always my friend: wild cabbage is negatively affected by both herbivores and their parasitoids", 62nd Annual Meeting of the Entomological Society of America, (Presenter) Ode, P. J., Portland, OR.

November 16, 2014, "Tracing the invasion history of a parasitoid wasp in North America", 62nd Annual Meeting of the Entomological Society of America, (Presenter) Bowker, C. L., Portland, OR.

October 2014, "An assessment of US insect biological control introductions from 1979-2009: results from the USDA-ARS ROBO database.", W-3185 Annual Meeting, (Presenter) Anderson, A., Kauai, Hawaii, peer-reviewed/refereed.

August 2014, "Limited range expansion of an introduced parasitoid is not caused by a genetic bottleneck", 99th Annual Meeting of the Ecological Society of America, Ecological Society of America, (Presenter) Bowker, C. L., Sacramento, CA, peer-reviewed/refereed.

August 21, 2014, "Parasitism increases plant investment in chemical defences against herbivores", 15th International Symposium on Insect-Plant Interactions, University of Neuchâtel, Switzerland, (Presenter) Ode, P. J., University of Neuchâtel, peer-reviewed/refereed.

March 16, 2014, "Climate change and multitrophic interactions", University of Western Sydney, Hawkesbury Institute for the Environment, University of Western Sydney.

2013, "Bowker CL, Ode PJ, Black W, Berenbaum MR, Downie S. Tracing the invasion history of a parasitoid wasp in North America. 61st Annual Meeting of the Entomological Society of America, November 10-13".

2013, "Ode PJ, Zangerl A, Berenbaum MR. Synergistic, tritrophic effects of parsnip furanocoumarins on the specialist parasitoid *Copidosoma sosares*. 61st Annual Meeting of the Entomological Society of America, November 10-13".

2013, "Ode PJ. Trophic effects of plant secondary metabolite mixtures: defenses are not equal to the sum of their parts. Third International Entomophagous Insects Conference, Orford, Québec, Canada, 2-6 June 2013".

2012, "Cheryl Bowker, May Berenbaum, Paul Ode. Introduction history and patterns of spread of an introduced parasitoid. Ent Soc Am 60th Annual Meeting, Knoxville, TN, Nov 11-14".

2012, "Paul Ode. Re-forming historic and novel trophic associations in invaded

landscapes: parsnips, webworms, and parasitoids. Wageningen University, the Netherlands. August 2nd, 2012".

2011, "Ode PJ. Offspring size – number tradeoff responses to environmental stressors. Second International Entomophagous Insects Conference (keynote talk), Antibes, France".

2011, "Ode PJ. Reciprocal interactions across three trophic levels: re-formed and novel associations. (Department of Entomology) University of Illinois at Urbana-Champaign, Urbana, IL".

2010, "Boor Z, Balgopal MM, Ode PJ. Using insects to teach trophic interactions to high school students: measuring the effects of limiting resources on host and parasitoid fitness. 58th Annual Meeting of the Entomological Society of America, San Diego, CA".

2010, "Chirumamilla A, Charlet LD, Knodel JJ, Ode PJ, Foster SP. Elucidating the mechanisms of host plant resistance to the banded sunflower moth in selected sunflower accessions. 58th Annual Meeting of the Entomological Society of America, San Diego, CA".

2010, "Ode PJ, Lampert EC, Zangerl AR, Berenbaum MR. Generalist and specialist host-parasitoid associations respond differently to wild parsnip (*Pastinaca sativa*) defensive chemistry. 58th Annual Meeting of the Entomological Society of America, San Diego, CA".

2010, "Ode PJ. Changes in multi-trophic interactions post invasion. University of Kentucky (Biological Sciences), November 2010".

2010, "Ode PJ. Plant chemistry effects on generalist and specialist host-parasitoid associations. University of Kentucky (Biological Sciences), November 2010".

2010, "Ode PJ. Reciprocal interactions across three trophic levels: re-formed and

novel associations, University of Arizona (Dept. of Entomology), Tucson, AZ, December 2010".

2009, "Ode PJ. Changes in multi-trophic interactions post invasion. W-2185 Annual Meeting, South Lake Tahoe, CA. October 2009.".

2009, "Ode PJ. Differential effects of glucosinolates on an herbivore and its parasitoid. 57th Annual Meeting of the Entomological Society of America, Indianapolis, IN".

2009, "Ode PJ. Multitrophic effects of wild cabbage glucosinolates on a generalist herbivore and its specialist parasitoid. 94th Ecological Society of America Annual Meeting, Albuquerque, NM".

2008, "Foster SP, Ode PJ, Charlet LD. A field trial testing the role of various diterpenoids in the adult host preference and larval performance of banded sunflower moth on several sunflower lines. International Society for Chemical Ecology".

2008, "Ode PJ. Tri-trophic interactions in native and introduced habitats: furanocoumarins, webworms, and *Copidosoma sosares*, XXIII International Congress of Entomology, Durban, South Africa. July 2008".

2007, "Ode PJ, Balgopal MM, Harvey J. Cabbage, cabbage loopers, and *Copidosoma*: multi-trophic effects of plant quality on a generalist herbivore and its specialist parasitoid. 55th Annual Meeting of the Entomological Society of America, San Diego, CA".

2007, "Ode PJ, Balgopal MM. Multitrophic effects of cabbage quality on the generalist herbivore, the cabbage looper, and its specialist parasitoid, *Copidosoma floridanum*. XXX Congreso Nacional de Control Biológico y International Organization for Biological Control (IOBC) Symposium, 11 15 November 2007, Mérida, México".

2007, "Ode PJ. Multi-trophic effects of plant chemistry on a specialist parasitoid and its specialist parasitoid. Xth European Workshop on Insect Parasitoids, 17-21 September 2007, Erice, Italy".

2007, "Ode PJ. Tri-trophic interactions in native and introduced habitats: parsnip furanocoumarins and the parasitoid *Copidosoma sosares*. University of Arkansas (Entomology), 2007".

2007, "Ode PJ. Tri-trophic interactions in native and introduced habitats: parsnip furanocoumarins and the parasitoid *Copidosoma sosares*. University of Kentucky (Entomology), 2007".

2006, "de Boer JG, Ode PJ, Vet LEM, Whitfield J, Heimpel GE. Multiple locus complementary sex determination in the parasitoid wasp *Cotesia vestalis*. XIV International Entomophagous Insects Workshop, 11-15 June 2006, Newark, DE".

2006, "de Boer JG, Ode PJ, Vet LEM, Whitfield J, Heimpel GE. The role of sex determination in the evolution of gregarious development in parasitoid wasps. International Conference on Behavioural Ecology of Insect Parasitoids, 25-28 September 2006, Antibes Juan les Pins, France".

2006, "Lampert EC, Ode PJ. Battle of the sexes in the parasitic wasp *Copidosoma sosares*. 61st Annual Meeting of the North Central Branch of the Entomological Society of America, Bloomington, IL".

2006, "Lampert EC, Ode PJ. Battle of the sexes in the parasitoid *Copidosoma sosares*. XIV International Entomophagous Insects Workshop, 11-15 June 2006, Newark, DE".

2006, "Lampert EC, Ode PJ. Is clutch-size body-size a life history invariant? 54th Annual Meeting of the Entomological Society of America, Indianapolis, IN".

2006, "Mueller A, Ode PJ. Economic threshold of soybean aphid in North Dakota. 61st Annual Meeting of the North Central Branch of the Entomological Society of America, Bloomington, IL".

2006, "Mueller A, Ode PJ. Tritrophic effects between soybean aphid resistance in *Glycines max* and ladybird beetles *Harmonia axyridis*. 54th Annual Meeting of the Entomological Society of America, Indianapolis, IN".

2006, "Ode PJ. Parasitoid sex ratios and biological control. European Science Foundation - Behavioural Ecology of Insect Parasitoids (ESF-BEPAR) International Conference on Behavioral Ecology of Insect Parasitoids, Antibes Juan les Pins, France. 2006".

2006, "Ode PJ. Parsnips, webworms, and *Copidosoma sosares*: reciprocal interactions? North Dakota State University (Biology), 2006".

2005, "Charlet LD, Ode PJ, Seiler GJ. Native sunflower in the central and northern Plains as sources for resistance and natural enemies of insect pests of cultivated sunflower: banded sunflower moth and sunflower stem weevil. Proc. 27th Sunflower Research Workshop, Natl. Sunflower Assoc., Fargo, ND, 12-13 January 2005".

2005, "Crompton DS, Ode PJ. Implications of the Rag1 soybean aphid resistance gene upon biological control. Joint Annual Meeting of the Entomological Societies of Canada and Manitoba, Winnipeg, Manitoba".

2005, "Crompton DS, Ode PJ. Overwintering ability of *Aphis glycines* (Hemiptera: Aphididae) in the Red River Valley of the North. 53rd Annual Meeting of the Entomological Society of America, Ft. Lauderdale, FL".

2005, "Lampert EC, Ode PJ, Zangerl AR, Berenbaum MR. Sex-specific effects of xanthotoxin on the parasitoid *Copidosoma sosares*. 53rd Annual Meeting of the

Entomological Society of America, Ft. Lauderdale, FL".

2005, "Lampert EC, Ode PJ, Zangerl AR, McGovern JL, Berenbaum MR. Host plant effects on the polyembryonic parasitoid *Copidosoma sosares*. 60th Annual Meeting of the North Central Branch of the Entomological Society of America, West Lafayette, IN".

2005, "Lampert EC, Ode PJ. Examining direct and indirect tritrophic interactions: xanthotoxin and the polyembryonic parasitoid *Copidosoma sosares*. Joint Annual Meeting of the Entomological Societies of Canada and Manitoba, Winnipeg, Manitoba".

2005, "Ode PJ, Lampert EC, McGovern JL, Zangerl AR and Berenbaum MR. Host plant chemistry in native and introduced systems: effects of furanocoumarins on the parasitoid *Copidosoma sosares*. 53rd Annual Meeting of the Entomological Society of America, Ft. Lauderdale, FL".

2005, "Pexton JJ, Ode PJ. Parent-offspring conflict, information use and clutch size decisions in parasitoid wasps. 53rd Annual Meeting of the Entomological Society of America, Ft. Lauderdale, FL".

2004, "Charlet LD, Ode PJ. Sunflower stem weevil and its parasitoids in native sunflowers in the Central and Northern Plains. Annual Meeting of the Entomological Society of Canada".

2004, "Lampert EC, Ode PJ, Zangerl AR, McGovern JL, Berenbaum MR. Effects of xanthotoxin on sex ratio of the parasitoid *Copidosoma floridanum*. 52nd Annual Meeting of the Entomological Society of America, Salt Lake City, UT".

2004, "McGovern JL, Ode PJ, Zangerl AR and Berenbaum MR. Effects of parasitoid wasps on metabolism of host plant toxins in parsnip. 52nd Annual Meeting of the Entomological Society of America, Salt Lake City, UT".

2004, "Ode PJ, Hardy ICW, Zangerl AR, Berenbaum MR. Tritrophic effects of host plant chemistry on the polyembryonic parasitoid *Copidosoma sosares*. 59th Annual Meeting of the North Central Branch of the Entomological Society of America, Kansas City, MO".

2004, "Ode PJ. Parsnip chemistry and *Copidosoma sosares*: reciprocal tritrophic interactions? Netherlands Institute of Ecology (NIOO), Heteren, The Netherlands.".

2004, "Ode PJ. Variation in sex allocation decisions and parasitoid mass-rearing programs. 52nd Annual Meeting of the Entomology Society of America ("Legacy and Future of Biotechnology in Insect Rearing" symposium), Salt Lake City, UT, 2004.".

2003, "Ode PJ, Hardy ICW, Zangerl AR, Berenbaum MR. Host plant, host plant chemistry and the polyembryonic parasitoid *Copidosoma sosares*: indirect effects in a tritrophic interaction. XIIIth International Entomophagous Insects Workshop, Tucson, AZ".

2003, "Ode PJ. Parsnip chemistry and *Copidosoma sosares*: reciprocal tritrophic interactions? University of Minnesota (Dept. of Entomology), St. Paul, MN".

2002, "Ode PJ, Hopper KR, Heimpel G. Complementary sex determination in *Aphidius colemani*. 50th Annual Meeting of the Entomological Society of America, Fort Lauderdale, FL".

2000, "Ode PJ. Resource abundance and sex allocation in the desert seed-harvester ant, *Messor pergandei*. University of Maryland (Dept. of Entomology), College Park, MD".

1999, "Ode PJ. Sex allocation and clutch size decisions in the solitary parasitoid, *Comperiella bifasciata*. University of Delaware (Dept. of Entomology), Newark, DE".

1998, "Ode PJ. Sex allocation and the evolutionary transitions between solitary and gregarious parasitoid development. Texas A&M University (Dept. of Entomology), College Station, TX".

1997, "Ode PJ. Reproductive decisions in *Comperiella bifasciata* (Hym., Encyrtidae): understanding success and failure of control if citrus scales, University of Illinois Urbana Champaign (IL Nat. Hist. Survey), Urbana, IL".

1997, "Ode PJ. Sex allocation and clutch size decisions in the solitary parasitoid, *Comperiella bifasciata*, University of Arizona (Dept. of Entomology), Tucson, AZ".

1997, "Ode PJ. The evolution of gregarious development in a parasitic wasp, Center for Insect Science, Tempe, AZ".

1996, "Ode PJ. Female-biased sex allocation in an outbreeding parasitoid wasp, University of California Davis (Dept. of Entomology), Davis, CA".

1996, "Ode PJ. Seasonal patterns of parasitism in red scale, Sustainable Agriculture Conference Series, Orland, CA".

## **OTHER ACTIVITIES/ACCOMPLISHMENTS – PUBLICATIONS/SCHOLARLY RECORD**

(January 11, 2016). Workshop, "Teaching effectiveness: tips on pursuing excellence in teaching and learning," TILT, Ft. Collins, CO, United States.

## **TEACHING:**

<b><u>Year</u></b>	<b><u>Semester</u></b>	<b><u>Course No./Title</u></b>	<b><u>Cr. Hrs.</u></b>	<b><u>Enrollment</u></b>
2017	Fall	BSPM302 - Applied and General Entomology	2	167
2017	Fall	ECOL799 - Dissertation	87	27
2017	Fall	ECOL698 - Research	182	46
2017	Spring	ECOL799 - Dissertation	86	23
2017	Spring	BSPM495 - Independent Study	7	3
2017	Spring	ECOL698 - Research	159	46
2017	Spring	BSPM530 - Scientific Writing	1	4
2016	Fall	BSPM302 - Applied and General Entomology	2	155
2016	Fall	ECOL799 - Dissertation	18	17
2016	Fall	BSPM495 - Independent Study	3	1
2016	Fall	ECOL698 - Research	18	47
2016	Spring	BSPM495 - Independent Study	3	5
2016	Spring	ECOL698 - Research	18	51
2016	Spring	BSPM530 - Scientific Writing	1	0

2015	Fall	BSPM302 - Applied and General Entomology	2	148
2015	Fall	BSPM495 - Independent Study	3	3
2015	Fall	BSPM495 - Independent Study	3	1
2015	Fall	BSPM798 - Research	18	9
2015	Fall	ECOL698 - Research	18	48
2015	Spring	BSPM495 - Independent Study	3	2
2015	Spring	BSPM530 - Scientific Writing	1	5
2014	Fall	BSPM302 - Applied and General Entomology	2	133
2014	Fall	ECOL698 - Research	18	63
2014	Spring	BSPM530 - Scientific Writing	1	3
2013	Fall	BSPM302 - Applied and General Entomology	2	156
2013	Spring	ECOL698 - Research	18	53
2013	Spring	BSPM530 - Scientific Writing	1	8
2013	Spring	SOCR530 - Scientific Writing	1	7
2012	Fall	BSPM302 - Applied and General Entomology	2	173
2012	Fall	BSPM556 - Biological Control of Plant Pests	3	9
2012	Fall	BSPM798 - Research	18	10
2012	Fall	ECOL698 - Research	18	55
2012	Spring	ECOL698 - Research	18	58
2012	Spring	BSPM530 - Scientific Writing	1	6
2012	Spring	SOCR530 - Scientific Writing	1	9
2011	Fall	BSPM302 - Applied and General Entomology	2	174
2011	Fall	ECOL592 - Interdisciplinary Seminar in Ecology	3	12
2011	Fall	ECOL698 - Research	18	45
2011	Spring	ECOL698 - Research	18	39
2011	Spring	BSPM530 - Scientific Writing	1	6
2011	Spring	SOCR530 - Scientific Writing	1	5
2010	Fall	BSPM302 - Applied and General Entomology	2	153
2010	Fall	BSPM556 - Biological Control of Plant Pests	3	8
2010	Fall	BSPM798 - Research	18	12
2010	Fall	BSPM584 - Supervised College Teaching	3	1
2010	Spring	BSPM596 - Group Study	3	8
2010	Spring	BSPM596 - Group Study - Scientific Writing	3	7
2009	Fall	BSPM302 - Applied and General Entomology	2	118
2009	Spring	SOCR796 - Group Study	18	14
2008	Fall	BSPM495 - Independent Study	3	1

### Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2016	Spring	Bioag'l Sci & Pest Mgmt-BSPM550 - Molecular Plant-Microbe Interactions	1	Face to Face
2015	Spring	Bioag'l Sci & Pest Mgmt-BSPM451/551 - Integrated Pest Management	2	Face to Face
2014	Fall	Bioag'l Sci & Pest Mgmt-BSPM592 - Fundamentals of BSPM	1	Face to Face
2014	Spring	Bioag'l Sci & Pest Mgmt-BSPM550 - Molecular Plant-Microbe & Insect Interactions	1	Face to Face
2013	Fall	Bioag'l Sci & Pest Mgmt-BSPM592 - Fundamentals of BSPM	1	Face to Face

2013 Fall	Bioag'l Sci & Pest Mgmt-BSPM451 - Integrated Pest Management	2	Face to Face
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### **Evidence of Teaching Effectiveness (Annual Input)**

#### **Student Course Surveys**

Fall 2014, BSPM 302—Applied and General Entomology  
[Course Survey Report-1.pdf](#)

#### **Written Comments from Students**

Fall 2014, BSPM 302—Applied and General Entomology  
[BSPM 302 course surveys F2014-1.pdf](#)

#### **Other Evidence**

Spring 2015, BSPM 530—Scientific Writing

Fall 2014, ECOL 698—Research

Fall 2013, BSPM 302—Applied and General Entomology  
 evaluation scores not yet available!!!  
 i'll e-mail typed student comments

Spring 2013, BSPM 530—Scientific Writing

### **COMMITTEES**

GDPE Academic Committee, (December 2016 - Present).

Graduate Degree Program in Ecology Executive Committee, (January 2015 - Present).

Faculty Council Standing Committee on Scholastic Standards, (2009 - Present).

GDPE Small Grant Awards, (March 20, 2015).

Graduate Student Showcase, (February 25, 2015).

Graduate Degree Program in Ecology Executive Committee, (2011 - 2013).

Education Committee, (2013 - Present).

Executive Committee, (2012 - September 2015).

### **PROFESSIONAL AFFILIATIONS AND ACTIVITIES**

Ecological Society of America.

Entomological Society of America.

Sigma-Xi.

Society for the Study of Evolution.

Animal Behavior Society. (1990 - Present).

American Midland Naturalist.

American Naturalist.

Member, Animal Behavior Society.

Animal Behaviour.

Annals of Applied Biology.

Behavioral Ecology.

Behavioral Ecology.

Behavioral Ecology and Sociobiology.

Behavioral Ecology and Sociobiology.

Biological Control.

BMC Evolutionary Biology.

Bulletin of Entomological Research.

Crop Protection.

Crop Protection.

CSU AES Technical Report.

Ecological Entomology.

Ecological Entomology.

Member, Ecological Society of America.

Ecology.

Ecology.

Ecology Letters.

Member, Education Committee.

Entomologia Experimentalis et Applicata.

Entomologia Experimentalis et Applicata.

Committee Chair, Entomological Society of America.

Committee Chair, Entomological Society of America.

Committee Chair, Entomological Society of America.

Member, Entomological Society of America.

European Journal of Entomology.

European Journal of Entomology.

Evolution.

Evolution.

Evolutionary Ecology.

Evolutionary Ecology.

Member, Executive Committee.

Member, Faculty Council Standing Committee on Scholastic Standards.

Functional Ecology.

Genetica.

Genetica.

Member, Graduate Degree Program in Ecology Executive Committee.

Journal of Applied Entomology.

Journal of Chemical Ecology.

Journal of Economic Entomology.

Journal of Economic Entomology.

Journal of Economic Entomology.

Editor, Associate Editor, Journal of Economic Entomology.

Journal of Insect Behavior.

Journal of Insect Behavior.

Journal of Plant Physiology.

Journal of the Bombay Natural History Society.

Molecular Ecology.

National Agency for the Evaluation of Universities and Research Institutes (ANVUR; Italy).

Member, NSF IOS Animal Behavior DDIG Panel, 27-29 February.

Reviewer, Ad Hoc Reviewer, NSF IOS Animal Behavior.

Member, NSF IOS Behavioral Systems DDIG Panel, 23-25 February.

Reviewer, Ad Hoc Reviewer, NSF IOS Organism-Environment Interactions.

Reviewer, Ad Hoc Reviewer, NSF IOS Organism-Environment Interactions.

Reviewer, Ad Hoc Reviewer, NSF Office of International Science and Engineering International Research Fellowship Program.

Oecologia.

Oecologia.

Oikos.

Oikos.

Oxford University Press.

Oxford University Press.

Phytoparasitica.

PLoS ONE.

Population Ecology.

Population Ecology.

Member, Sigma-Xi.

Member, Society for the Study of Evolution.

Member, Student Affairs.

The Journal of Experimental Biology.

Member, USDA CSREES CP Organismal and Population Biology Panel, 26-28 March.

Member, USDA CSREES CP Organismal and Population Biology Panel, 28 April-1 May.

Reviewer, Journal Article, Ecology. (April 15, 2015 - Present).

Reviewer, Journal Article, Basic & Applied Ecology. (2014 - Present).

Reviewer, Journal Article, BioEnergy Research. (2014 - Present).

Editor, Journal Editor, Environmental Entomology. (2014 - Present).

Editor, Journal Editor, Frontiers in Chemical Ecology. (2014 - Present).

Reviewer, Journal Article, Insect Conservation & Diversity. (2014 - Present).

Reviewer, Journal Article, Journal of Applied Ecology. (2014 - Present).

Reviewer, Journal Article, PLoS One. (2014 - Present).

Reviewer, Journal Article, BioControl. (2013 - Present).

Editor, Senior Editor, Biological Control. (January 2013 - Present).

Reviewer, Journal Article, Biological Reviews. (2013 - Present).

Reviewer, Journal Article, Entomologia Experimentalis et Applicata. (2013 - Present).

Reviewer, Journal Article, Environmental Entomology. (2013 - Present).

Reviewer, Journal Article, Functional Ecology. (2013 - Present).

Reviewer, Journal Article, Journal of Economic Entomology. (2013 - Present).

Reviewer, Journal Article, Oecologia. (2013 - Present).

Editor, Journal Editor, Journal of Insect Science. (2011 - Present).

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#### **OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH**

grant panelist, NSF IOS, Arlington, VA. (October 2016 - Present).

K-12 Outreach, Poudre School District.

K-12 Outreach, Poudre School District.

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