

Publications

Jay A. Rosenheim

Journals

1. 1986 **Rosenheim, J. A.** and M. A. Hoy. Intraspecific variation in levels of pesticide resistance in field populations of a parasitoid, *Aphytis melinus* (Hymenoptera: Aphelinidae): the role of past selection pressures. *Journal of Economic Entomology*, 79: 1161-1173.
2. 1987 **Rosenheim, J. A.** and J. K. Grace. Biology of a wood-nesting wasp, *Mimumesa mixta* (Hymenoptera: Sphecidae), and its parasite, *Elampus viridicyaneus* (Hymenoptera: Chrysididae). *Proceedings of the Entomological Society of Washington*, 89(2): 351-355.
3. 1987 **Rosenheim, J. A.** Nesting behavior and bionomics of *Ammophila dysmica* (Hymenoptera: Sphecidae): the influence of parasite pressure. *Annals of the Entomological Society of America*, 80(6): 739-749.
4. 1987 **Rosenheim, J. A.** Host location and exploitation by the cleptoparasitic wasp *Argochrysis armilla*: the role of learning (Hymenoptera: Chrysididae). *Behavioral Ecology and Sociobiology*, 21: 401-406.
5. 1987 **Rosenheim, J. A.** Genetic improvement of a biological control agent: evolution of pesticide resistance in *Aphytis melinus* DeBach (Hymenoptera: Aphelinidae) through natural and artificial selection. *Ph.D. dissertation, University of California, Berkeley (ADDED TO LIST 2010)*.
6. 1988 **Rosenheim, J. A.** and M. A. Hoy. Sublethal effects of pesticides on the parasitoid *Aphytis melinus* (Hymenoptera: Aphelinidae). *Journal of Economic Entomology*, 81(2): 476-483.
7. 1988 **Rosenheim, J. A.** Parasite presence acts as a proximate cue in the nest-site selection process of the solitary digger wasp, *Ammophila dysmica* (Hymenoptera: Sphecidae). *Journal of Insect Behavior*, 1(4): 333-342.
8. 1988 **Rosenheim, J. A.** and M. A. Hoy. Genetic improvement of a parasitoid biological control agent: artificial selection for insecticide resistance in *Aphytis melinus* (Hymenoptera: Aphelinidae). *Journal of Economic Entomology*, 81(6): 1539-1550.
9. 1989 **Rosenheim, J. A.**, T. Meade, I. G. Powch and S. Schoenig. Aggregation by foraging insect parasitoids in response to local variations in host density: determining the dimensions of a host patch. *Journal of Animal Ecology*, 58: 101-117.

10. 1989 **Rosenheim, J. A.**, M. A. Hoy, J. Gorden and J. R. Stewart. Selecting for insecticide resistance in the California red scale parasitoid *Aphytis melinus*. *California Agriculture*, 43(1): 17-18.
11. 1989 **Rosenheim, J. A.** and M. A. Hoy. Confidence intervals for the Abbott's formula correction of bioassay data for control response. *Journal of Economic Entomology*, 82(2): 331-335.
12. 1989 **Rosenheim, J. A.** Behaviorally-mediated spatial and temporal refuges from a cleptoparasite, *Argochrysis armilla* (Hymenoptera: Chrysididae), attacking a ground-nesting wasp, *Ammophila dysmica* (Hymenoptera: Sphecidae). *Behavioral Ecology and Sociobiology*, 25: 335-348.
13. 1990 **Rosenheim, J. A.** Aerial prey caching by solitary ground-nesting wasps: a test of the predator defense hypothesis. *Journal of Insect Behavior*, 3(2): 241-250.
14. 1990 **Rosenheim, J. A.**, S. C. Welter, M. W. Johnson, R. F. L. Mau and L. R. Gusukuma-Minuto. Direct feeding damage on cucumber by mixed-species infestations of two thrips, *Thrips palmi* and *Frankliniella occidentalis* (Thysanoptera: Thripidae). *Journal of Economic Entomology*, 83(4): 1519-1525.
15. 1990 **Rosenheim, J. A.** Density-dependent parasitism and the evolution of nesting aggregations in the solitary Hymenoptera. *Annals of the Entomological Society of America*, 83(3): 277-286.
16. 1990 Tabashnik, B. E., B. A. Croft and **J. A. Rosenheim**. Spatial scale of fenvalerate resistance in pear psylla (Homoptera: Psyllidae) and its relationship to treatment history. *Journal of Economic Entomology*, 83(4): 1177-1183.
17. 1990 **Rosenheim, J. A.** and B. E. Tabashnik. Evolution of pesticide resistance: interactions between generation time and genetic, ecological, and operational factor. *Journal of Economic Entomology*, 83(4): 1184-1193.
18. 1990 Rathman, R. J., M. W. Johnson, **J. A. Rosenheim** and B. E. Tabashnik. Carbamate and pyrethroid resistance in the leafminer parasitoid *Diglyphus begini* (Hymenoptera: Eulophidae). *Journal of Economic Entomology*, 83(6): 2153-2158.
19. 1990 Welter, S. C., **J. A. Rosenheim**, M. W. Johnson, R. F. L. Mau and L. R. Gusukuma-Minuto. Effects of *Thrips palmi* and western flower thrips (Thysanoptera: Thripidae) on the yield, growth, and carbon allocation pattern in cucumbers. *Journal of Economic Entomology*, 83(5): 2092-2101.
20. 1991 **Rosenheim, J. A.** and B. E. Tabashnik. Influence of generation time on the rate of response to selection. *American Naturalist*, 137(4): 527-541.

21. 1991 **Rosenheim, J. A.** Realized heritability estimation for pesticide resistance traits. *Entomologia Experimentalis et Applicata*, 58: 93-97.
22. 1991 **Rosenheim, J. A.** and D. Rosen. Foraging and oviposition decisions in the parasitoid *Aphytis lingnanensis*: distinguishing the influences of egg load and experience. *Journal of Animal Ecology*, 60: 873-893.
23. 1991 **Rosenheim, J. A.**, S. C. Welter, M. W. Johnson, R. F. L. Mau and L. R. Gusukuma-Minuto. Cucumber fruit scarring by *Thrips palmi* and *Frankliniella occidentalis* (Thysanoptera: Thripidae). *Proc. Agricultural Development in the American Pacific Crop Protection Conference*, pp. 74-78.
24. 1991 Johnson, M. W., L. C. Caprio, J. A. Lynch, B. E. Tabashnik, S. C. Welter & **J. A. Rosenheim**. Yield response of fresh market tomatoes to greenhouse whitefly infestations in Hawaii. *Proc. Agricultural Development in the American Pacific Crop Protection Conference*, pp. 101-103.
25. 1991 Rathman, R. J., M. W. Johnson, **J. A. Rosenheim** and B. E. Tabashnik. Insecticide studies on three leafminer parasitoids in Hawaii. *Proc. Agricultural Development in the American Pacific Crop Protection Conference*, pp. 141-145.
26. 1992 Minkenberg, O. P. J. M., M. Tatar, and **J. A. Rosenheim**. Egg load as a major source of variability in insect foraging and oviposition behavior. *Oikos*, 65: 134-142.
27. 1992 **Rosenheim, J. A.**, and D. Rosen. Influence of egg load and host size on host feeding decisions by the parasitoid *Aphytis lingnanensis*. *Ecological Entomology*, 17: 263-272.
28. 1992 Rathman, R. J., M. W. Johnson, **J. A. Rosenheim**, B. E. Tabashnik and M. A. Purcell. Sexual differences in insecticide susceptibility and synergism with piperonyl butoxide in the leafminer parasitoid *Diglyphus begini* (Hymenoptera: Eulophidae). *Journal of Economic Entomology*, 85(1): 15-20.
29. 1992 Johnson, M. W., L. C. Caprio, J. A. Lynch, B. E. Tabashnik, **J. A. Rosenheim**, and S. C. Welter. Impact of greenhouse whitefly, *Trialeurodes vaporariorum* (Westwood), (Homoptera: Aleyrodidae) on yield of fresh market tomatoes. *Journal of Economic Entomology*, 85(6): 2370-2376.
30. 1992 Wilhoit, L. R., **J. A. Rosenheim**, and C. R. Krag. Impact of early-season aphid populations on cotton maturation, yield and fiber quality. *Proceedings Beltwide Cotton Conference*, pp. 945-947.
31. 1993 **Rosenheim, J. A.** Single sex broods and the evolution of non-siblicidal parasitoid wasps. *American Naturalist*, 141(1): 90-104.

32. 1993 **Rosenheim, J. A.**, and L. R. Wilhoit. Early-season populations of *Aphis gossypii*: to spray or not to spray is not the only question. *Agriculture, Ecosystems and Environment*, 43: 353-356.
33. 1993 **Rosenheim, J. A.**, L. R. Wilhoit, and C. A. Armer. Intraguild predation and biological control of the cotton aphid, *Aphis gossypii*. *Proc. Beltwide Cotton Conference*, pp. 730-732.
34. 1993 Wilhoit, L. R., and **J. A. Rosenheim**. The yellow dwarf form of the cotton aphid, *Aphis gossypii*. *Proc. Beltwide Cotton Conference*, pp. 969-972.
35. 1993 **Rosenheim, J. A.**, and L. R. Wilhoit. Predators that eat other predators disrupt biological control of the cotton aphid. *California Agriculture*, 47(5): 7-9.
36. 1993 **Rosenheim, J. A.**, L. R. Wilhoit, and C. A. Armer. Influence of intraguild predation among generalist insect predators on the suppression of an herbivore population. *Oecologia*, 96: 439-449.
37. 1993 **Rosenheim, J. A.**, and B. E. Tabashnik. Generation time and evolution. *Nature*, 365: 791-792.
38. 1994 **Rosenheim, J. A.**, and M. Mangel. Patch leaving rules for parasitoids with imperfect host discrimination. *Ecological Entomology*, 19: 374-380.
39. 1994 Heimpel, G. E., **J. A. Rosenheim**, and J. M. Adams. Behavioral ecology of host feeding in *Aphytis* parasitoids. *Norwegian Journal of Agricultural Sciences, Supplement (Proceedings of the 7th European Workshop on Insect Parasitoids)*, 16: 101-115.
40. 1994 **Rosenheim, J. A.**, L. R. Wilhoit, and R. G. Colfer. Seasonal biology and polymorphism of the cotton aphid, *Aphis gossypii*, in California. *Proceedings of the Beltwide Cotton Conference*, pp. 125-131.
41. 1994 **Rosenheim, J. A.**, and J. J. Cisneros. Biological control of the cotton aphid, *Aphis gossypii*, by generalist predators. *Proceedings of the Beltwide Cotton Conference*, pp. 1000-1002.
42. 1994 Mangel, M., **J. A. Rosenheim**, and F. R. Adler. Clutch size, offspring performance, and inter-generational fitness. *Behavioral Ecology*, 5(4): 412-417.
43. 1995 Heimpel, G. E., and **J. A. Rosenheim**. Dynamic host-feeding strategies by the parasitoid *Aphytis melinus*: the choice between current and future reproduction. *Journal of Animal Ecology*, 64: 153-167.
44. 1995 **Rosenheim, J. A.**, K. J. Fuson, and L. D. Godfrey. Cotton aphid biology, pesticide resistance, and management in the San Joaquin Valley. *Proceedings of the Beltwide Cotton Conference*, pp. 97-101.

45. 1995 Steinkraus, D., and **J. A. Rosenheim**. Biological factors influencing the epizootiology of cotton aphid fungus. *Proceedings of the Beltwide Cotton Conference*, pp. 887-889.
46. 1995 **Rosenheim, J. A.** Cotton aphid (*Aphis gossypii*) on early-season cotton: the anatomy of a non-pest. *Proceedings of the Beltwide Cotton Conference*, pp. 998-1003.
47. 1995 Colfer, R. G., and **J. A. Rosenheim**. Intraguild predation by coccinellid beetles on an aphid parasitoid, *Lysiphlebus testaceipes*. *Proceedings of the Beltwide Cotton Conference*, pp. 1033-1036.
48. 1995 **Rosenheim, J. A.**, H. K. Kaya, L. E. Ehler, J. J. Marois, and B. A. Jaffee. Intraguild predation among biological control agents: theory and evidence. *Biological Control*, 5: 303-335.
49. 1996 Corbett, A., B. C. Murphy, **J. A. Rosenheim**, and P. Bruins. Labeling an egg parasitoid, *Anagrus epos* (Hymenoptera: Mymaridae), with rubidium within an overwintering refuge. *Environmental Entomology*, 25(1): 29-38.
50. 1996 Corbett, A., and **J. A. Rosenheim**. Quantifying movement of a minute parasitoid, *Anagrus epos* (Hymenoptera: Mymaridae), using fluorescent dust marking and recapture. *Biological Control*, 6: 35-44.
51. 1996 **Rosenheim, J. A.**, and D. Hongkham. Clutch size in an obligately siblicidal parasitoid wasp. *Animal Behaviour*, 51: 841-852.
52. 1996 Godfrey, L., and **J. A. Rosenheim**. Aphids and whiteflies in the San Joaquin Valley of California in 1995. *Proceedings Beltwide Cotton Conference*, pp. 128-132.
53. 1996 Murphy, B. C., **J. A. Rosenheim**, and J. Granett. Habitat diversification for improving biological control: abundance of *Anagrus epos* (Hymenoptera: Mymaridae) in grape vineyards. *Environmental Entomology*, 25(2): 495-504.
54. 1996 Corbett, A., and **J. A. Rosenheim**. Impact of a natural enemy overwintering refuge and its interaction with the surrounding landscape. *Ecological Entomology*, 21: 155-164.
55. 1996 **Rosenheim, J. A.**, M. W. Johnson, R. F. L. Mau, S. C. Welter, and B. E. Tabashnik. Biochemical preadaptations, founder events, and the evolution of resistance in arthropods. *Journal of Economic Entomology*, 89(2): 263-273.
56. 1996 Heimpel, G. E., **J. A. Rosenheim**, and M. Mangel. Egg limitation, host quality and dynamic behavior by a parasitoid in the field. *Ecology*, 77(8): 2410-2420.

57. 1996 **Rosenheim, J. A.**, P. Nonacs, and M. Mangel. Sex ratios and multifaceted parental investment. *American Naturalist*, 148(3): 501-535.
58. 1996 **Rosenheim, J. A.** An evolutionary argument for egg limitation. *Evolution*, 50(5): 2089-2094.
59. 1997 Heimpel, G. E., **J. A. Rosenheim**, and M. Mangel. Predation on adult *Aphytis* parasitoids in the field. *Oecologia*, 110: 346-352.
60. 1997 Heimpel, G. E., **J. A. Rosenheim**, and D. Kattari. Adult feeding and lifetime reproductive success in the parasitoid *Aphytis melinus*. *Entomologia Experimentalis et Applicata*, 83: 305-315.
61. 1997 Cisneros, J. J., and **J. A. Rosenheim**. Ontogenetic change of prey preference in a generalist predator, *Zelus renardii*, and its influence on the intensity of predator-predator interactions. *Ecological Entomology*, 22: 399-407.
62. 1997 **Rosenheim, J. A.**, L. R. Wilhoit, P. B. Goodell, E. E. Grafton-Cardwell, and T. F. Leigh. Plant compensation, natural biological control, and herbivory by *Aphis gossypii* on pre-reproductive cotton: the anatomy of a non-pest. *Entomologia Experimentalis et Applicata*, 85: 45-63.
63. 1998 **Rosenheim, J. A.**, and D. Granicher. Nesting biology of an endemic Hawaiian wasp, *Ectemnius molokaiensis*. *Proceedings of the Hawaiian Entomological Society*, 33: 147-149.
64. 1998 **Rosenheim, J. A.** Higher-order predators and the regulation of insect herbivore populations. *Annual Review of Entomology*, 43: 421-447.
65. 1998 Murphy, B. C., **J. A. Rosenheim**, R. V. Dowell, and J. Granett. Testing a habitat diversification tactic for improving biological control: parasitism of the western grape leafhopper, *Erythroneura elegantula* (Homoptera: Cicadellidae). *Entomologia Experimentalis et Applicata*, 87: 225-235.
66. 1998 Heimpel, G. E., M. Mangel, and **J. A. Rosenheim**. Effects of time limitation and egg limitation on lifetime reproductive success of a parasitoid in the field. *American Naturalist*, 152(2): 273-289.
67. 1998 Colfer, R. G., **J. A. Rosenheim**, L. D. Godfrey, and C. L. Hsu. Evaluation of predaceous mite releases for spider mite management. *Proceedings of the Beltwide Cotton Conference*, pp. 976-982.
68. 1998 Cisneros, J. J., and **J. A. Rosenheim**. Changes in the foraging behavior, within-plant vertical distribution and micro-habitat selection of a generalist predator: an age analysis. *Environmental Entomology*, 27(4): 949-957.
69. 1998 Ode, P. J., and **J. A. Rosenheim**. Sex allocation and the evolutionary transition between solitary and gregarious parasitoid development. *American Naturalist*, 152(5): 757-761.

70. 1998 Mayhew, P. J., P. J. Ode, I. C. W. Hardy, and **J. A. Rosenheim**. Parasitoid clutch size and irreversible evolution. *Ecology Letters*, 1: 139-141.
71. 1998 Heimpel, G. E., and **J. A. Rosenheim**. Egg limitation in parasitoids: a review of the evidence and a case study. *Biological Control*, 11: 160-168.
72. 1998 Visser, M. E., and **J. A. Rosenheim**. The influence of competition between foragers on clutch size decisions in insect parasitoids. *Biological Control*, 11: 169-174.
73. 1999 **Rosenheim, J. A.** The relative contributions of time and eggs to the cost of reproduction. *Evolution*, 53(2): 376-385.
74. 1999 **Rosenheim, J. A.**, D. D. Limburg, and R. G. Colfer. Impact of generalist predators on a biological control agent, *Chrysoperla carnea*: direct observations. *Ecological Applications*, 9(2): 409-417.
75. 1999 Kattari, D., G. E. Heimpel, P. J. Ode, and **J. A. Rosenheim**. First records of hyperparasitism by *Ablerus clisiocampae* (Ashmead) (Hymenoptera: Aphelinidae). *Proceedings of the Washington Entomological Society*, 101(3): 640-644.
76. 1999 **Rosenheim, J. A.** Characterizing the cost of oviposition in insects: a dynamic model. *Evolutionary Ecology*, 13: 141-165.
77. 2000 **Rosenheim, J. A.**, G. E. Heimpel, and M. Mangel. Egg maturation, egg resorption and the costliness of transient egg limitation. *Proc. Biol. Soc.*, 267: 1565-1573.
78. 2000 Colfer, R. G., **J. A. Rosenheim**, and L. D. Godfrey. The evaluation of biological control of spider mites. *Proceedings of the Beltwide Cotton Conference*, Vol. 2: 1151-1157.
79. 2000 Brodeur, J., and **J. A. Rosenheim**. Intraguild interactions in aphid parasitoids. *Entomologia Experimentalis et Applicata*, 97: 93-108.
80. 2000 Godfrey, L. D., **J. A. Rosenheim**, and P. B. Goodell. Cotton aphid emergence as a pest of San Joaquin Valley cotton. *California Agriculture*, 54(6): 26-29.
81. 2001 Colfer, R. G., and **J. A. Rosenheim**. Predation on immature parasitoids and its influence of aphid population suppression. *Oecologia*, 126: 292-304.
82. 2001 **Rosenheim, J. A.** Source-sink dynamics for a generalist insect predator in a habitat with strong higher-order predation. *Ecological Monographs*, 71: 93-116.

83. 2001 Limburg, D. D., and **J. A. Rosenheim**. Extrafloral nectar consumption and its influence on the survival and development of an omnivorous predator, larval *Chrysoperla carnea*. *Environmental Entomology*, 30(3): 595-604.
84. 2001 Brennan, E. B., S. A. Weinbaum, **J. A. Rosenheim**, and R. Karban. Heteroblasty in *Eucalyptus globulus* (Myricales: Myricaceae) affects ovipositional and settling preferences of *Ctenarytaina eucalypti* and *C. spatulata* (Homoptera: Psyllidae). *Environmental Entomology*, 30(6): 1144-1149.
85. 2002 Steinkraus, D. C., G. O. Boys, and **J. A. Rosenheim**. Classical biological control of *Aphis gossypii* (Homoptera: Aphididae) with *Neozygites fresenii* (Entomophthorales: Neozygiteaceae) in California cotton. *Biological Control*, 25: 297-304.
86. 2002 **Rosenheim, J. A.**, and J. Brodeur. A simple trap to study small-scale movement by walking arthropods. *Entomologia Experimentalis et Applicata*, 103: 283-285.
87. 2003 Fournier, V., **J. A. Rosenheim**, M. W. Johnson, and J. Brodeur. Augmentative releases of predatory mites on papaya in Hawaii: failure and success. *Proceedings of the International Symposium on Biological Control of Arthropods. Honolulu, Hawaii, 14-18 January 2002, United States Department of Agriculture, Forest Service, Morgantown, WV, FHTET-2003-05, 573 p., Pages 167-175.*
88. 2003 Hopper, K. R., **J. A. Rosenheim**, T. Prout, and S. Oppenheim. Within-generation bet hedging: a seductive explanation? *Oikos*, 101(1): 219-222.
89. 2003 Fournier, V., **J. A. Rosenheim**, J. Brodeur, L. O. Laney, and M. W. Johnson. Herbivorous mites as ecological engineers: indirect effects on arthropods inhabiting papaya foliage. *Oecologia*, 135(3): 442-450.
90. 2003 **Rosenheim, J. A.**, and A. Corbett. Omnivory and the indeterminacy of predator function: can a knowledge of foraging behavior help? *Ecology*, 84(10): 2538-2548.
91. 2003 Colfer, R. G., **J. A. Rosenheim**, L. D. Godfrey, and C. L. Hsu. Interactions between the augmentatively released predaceous mite *Galendromus occidentalis* (Acari: Phytoseiidae) and naturally occurring generalist predators. *Environmental Entomology*, 32(4): 840-852.
92. 2003 Zink, A. G., and **J. A. Rosenheim**. Age structure and sex ratio of *Lygus hesperus* populations in California cotton. *Proceedings of the 2003 Beltwide Cotton Conferences, Nashville, TN—January 6-10*, pp. 1082-1088.
93. 2004 Colfer, R. G., **J. A. Rosenheim**, L. D. Godfrey, and C. L. Hsu. Evaluation of large-scale releases of western predatory mite for spider mite control in cotton. *Biological Control*, 30: 1-10.

94. 2004 **Rosenheim, J. A.**, D. D. Limburg, R. G. Colfer, V. Fournier, C. L. Hsu, T. E. Leonardo, and E. H. Nelson. Herbivore population suppression by an intermediate predator, *Phytoseiulus macropilis*, is insensitive to the presence of an intraguild predator: an advantage of small body size? *Oecologia*, 140: 577-585.
95. 2004 Nelson, E. H., C. E. Matthews, and **J. A. Rosenheim**. Predators reduce prey population growth by inducing changes in prey behavior. *Ecology*, 85(7): 1853-1858.
96. 2004 Zink, A. G., and **J. A. Rosenheim**. Square abscission in California cotton and the stage structure of western tarnished plant bug populations. *Proceedings of the Beltwide Cotton Conference*, pp. 1514-1517.
97. 2004 Fournier, V., **J. A. Rosenheim**, J. Brodeur, and M. W. Johnson. Inducible responses in papaya: impact on population growth of herbivorous mites and powdery mildew under field conditions. *Environmental Entomology*, 33(4): 1088-1094.
98. 2004 **Rosenheim, J. A.**, R. E. Goeriz, and E. F. Thacher. Omnivore or herbivore? Field observations of foraging by *Lygus hesperus*. *Environmental Entomology*, 33: 1362-1370.
99. 2004 **Rosenheim, J. A.** Top predators constrain the habitat selection games played by intermediate predators and their prey. *Israel Journal of Zoology*, 50: 129-138.
100. 2004 Zink, A. G., and **J. A. Rosenheim**. State-dependent sampling bias in insects: implications for monitoring western tarnished plant bugs. *Entomologia Experimentalis et Applicata*, 113: 117-123.
101. 2004 Fournier, V., **J. A. Rosenheim**, J. Brodeur, and M. W. Johnson. Population dynamics and within-plant distribution of the rust mite *Calacarus flagelliseta* (Acari: Eriophyidae) on papaya in Hawaii. *Journal of Economic Entomology*, 97: 1563-1569.
102. 2004 **Rosenheim, J. A.**, T. E. Glik, R. E. Goeriz, and B. Rämert. Linking a predator's foraging behaviour with its effects on herbivore population suppression. *Ecology*, 85: 3362-3372.
103. 2004 Mondor, E.B, **J. A. Rosenheim**, and J.F. Addicott. Predator-induced transgenerational phenotypic plasticity in the cotton aphid. *Oecologia*, 142(1): 104-108.
104. 2004 **Rosenheim, J. A.**, D. D. Limburg, R. G. Colfer, V. Fournier, C. L. Hsu, T. E. Leonardo, and E. H., Nelson. Herbivore population suppression by an intermediate predator, *Phytoseiulus macropilis*, is insensitive to the presence of an intraguild predator: an advantage of small body size? *Oecologia*, 140(4): 577-85.

105. 2005 **Rosenheim, J. A.** Intraguild predation on *Orius tristicolor* by *Geocoris* spp. and the paradox of irruptive spider mite dynamics in California cotton. *Biological Control*, 32: 172-179.
106. 2005 Langellotto, G. A., **J. A. Rosenheim**, and M. R. Williams. Enhanced carbon enrichment in parasitoids (Hymenoptera): a stable isotope study. *Annals of the Entomological Society of America*, 98: 205-213.
107. 2005 Spence, K.O, and **J. A. Rosenheim**. Isotopic enrichment in herbivorous insects: a comparative field-based study of variation. *Oecologia*, 146(1): 89-97.
108. 2005 Zink, A. G., and **J. A. Rosenheim**. State-dependent feeding behavior by western tarnished plant bugs influences flower bud abscission in cotton. *Entomologia Experimentalis et Applicata*, 117: 235-242.
109. 2006 Nelson, E. H., and **J. A. Rosenheim**. Encounters between aphids and their predators: the relative frequencies of disturbance and consumption. *Entomologia Experimentalis et Applicata*, 118: 211-219.
110. 2006 **Rosenheim, J. A.**, K. Steinmann, G. A. Langellotto, and A. G. Zink. Estimating the impact of *Lygus hesperus* on cotton: the insect, plant, and human observer as sources of variability. *Environmental Entomology*, 35: 1141-1153.
111. 2006 Fournier, V., **J. A. Rosenheim**, J. Brodeur, J. M. Diez, and M.W. Johnson. Multiple plant exploiters on a shared host: testing for nonadditive effects on plant performance. *Ecol Appl*, 16(6): 2382-98.
112. 2006 Langellotto, G.A., **J. A. Rosenheim**, and M.R. Williams. Assessing trophic interactions in a guild of primary parasitoids and facultative hyperparasitoids: stable isotope analysis. *Oecologia*, 150(2): 291-9.
113. 2007 Jepsen, S. J., **J. A. Rosenheim**, and C. E. Matthews. The impact of sulfur on the reproductive success of *Anagrus* spp. parasitoids in the field. *BioControl*, 52: 599-612.
114. 2007 Spence, K.O., V.T. Bicocca, and **J. A. Rosenheim**. Friend or foe?: a plant's induced response to an omnivore. *Environ Entomol*, 36(3): 623-630.
115. 2007 **Rosenheim, J. A.**, S. J. Jepsen, C. E. Matthews, D. S. Smith, and M. R. Rosenheim. Portrait of an ephemeral adult stage: egg maturation, oviposition, and longevity of the gall midge *Rhopalomyia californica*. *Annals of the Entomological Society of America*, 100: 549-561.
- #116. 2007 Jepsen, S. J., **J. A. Rosenheim**, and M. E. Bench. The effect of sulfur on biological control of the grape leafhopper, *Erythroneura elegantula*, by the egg parasitoid *Anagrus erythroneurae*. *BioControl*, 52: 721-732.

- #117. 2007 **Rosenheim, J. A.** Intraguild predation: new theoretical and empirical perspectives. *Ecology*, 88: 2679-2680.
- #118. 2007 Vance-Chalcraft, H.D., **J. A. Rosenheim**, J.R.Vonesh, C.W. Osenberg, and A. Sih. The influence of intraguild predation on prey suppression and prey release: a meta-analysis. *Ecology*, 88(11): 2689-96.
- #119. 2008 de Valpine, P., and **J. A. Rosenheim**. Field-scale roles of density, temperature, nitrogen, and predation on aphid population dynamics. *Ecology*, 89(2): 532-41.
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- @120. 2008 Zink, A. G., and **J. A. Rosenheim**. Stage-specific predation on *Lygus hesperus* affects its population stage structure. *Entomologia Experimentalis et Applicata*, 126: 61-66.
- @121. 2008 Mondor, E. B., **J. A. Rosenheim**, and J. F. Addicott. Mutualist-induced transgenerational polyphenisms in herbivore populations. *Functional Ecology*, 22: 157-162.
- @122. 2008 **Rosenheim, J. A.**, and M. Coll. Pest-centric versus process-centric approaches in agricultural entomology. *American Entomologist (summer)*, 70-72.
- @123. 2008 **Rosenheim, J. A.**, S.J. Jepsen, C.E. Matthews, D. S. Smith, and M.R. Rosenheim. Time limitation, egg limitation, the cost of oviposition, and lifetime reproduction by an insect in nature. *Am Nat*, 172(4): 486-96.
- @124. 2010 **Rosenheim, J. A.**, U. Alon, and G. Shinar. Evolutionary balancing of fitness-limiting factors. *Am Nat*, 175(6): 662-74.
- @125. 2010 Segoli, M., A. R. Harari, **J. A. Rosenheim**, A. Bouskila, and T. Keasar. The evolution of polyembryony in parasitoid wasps. *J Evol Biol*, 23(9): 1807-19.
- @#126. 2011 Sivakoff, F. J., **J. A. Rosenheim**, and J. Hagler. Using protein marking to study insect long distance dispersal. *Methods in Ecology and Evolution*, 2: 77-85.
- @#127. 2011 Law, Y. H., and **J. A. Rosenheim**. Effects of combining an intraguild predator with a cannibalistic intermediate predator on a species-level trophic cascade. *Ecology*, 92: 333-341.
- @128. 2011 Parsa, S., R. Ccanto, and **J. A. Rosenheim**. Resource concentration dilutes a key pest in indigenous potato agriculture. *Ecological Applications*, 21: 539-546.
-
- *x@129. 2011 **Rosenheim, J. A.** Stochasticity in reproductive opportunity and the evolution of egg limitation in insects. *Evolution*, 65: 2300-2312.

- *x+@130. 2011 **Rosenheim, J. A.**, S. Parsa, A. A. Forbes, W. A. Krimmel, Y. H. Law, M. Segoli, M. Segoli, F. J. Sivakoff, T. Zaviezo, and K. Gross. Ecoinformatics for integrated pest management: expanding the applied insect ecologist's tool-kit. *Journal of Economic Entomology*, 104: 331-342.
- *+@131. 2011 Entomologia Experimentalis et Applicata. Plant responses to insect herbivore damage are modulated by phosphorus nutrition. *Forbes, A. A., and J. A. Rosenheim*, 139: 242-249.
- *@132. 2011 Gross, K., and **J. A. Rosenheim**. Quantifying secondary pest outbreaks in cotton and their monetary cost with causal inference statistics. *Ecological Applications*, 21: 2770-2780.
- *@133. 2011 Lucas, É., and **J. A. Rosenheim**. Influence of extraguild prey density on intraguild predation in Heteroptera: a review of the evidence and a case study. *Biological Control*, 59: 61-67.
- *+@134. 2012 Segoli, M., and **J. A. Rosenheim**. Modeling the consequences of agricultural intensification on pest damage. 150: 38-44.
- *+@135. 2012 Parsa, S., R. Ccanto, E. Olivera, M. Scurrah, J. Alcázar, and **J. A. Rosenheim**. Explaining Andean potato weevils in relation to local and landscape features: a facilitated ecoinformatics approach. *PLoSOne*, 7(5): e36533.
- *+@136. 2012 Sivakoff, F. J., **J. A. Rosenheim**, and J. Hagler. Relative dispersal ability of a key agricultural pest and its predators in an annual agroecosystem. *Biological Control*, 63: 296-303.
- *x+@137. 2013 Law, Y. H., and **J. A. Rosenheim**. Presence of conspecific females motivates egg cannibalism owing to lower risk of filial cannibalism. *Animal Behaviour*, 85: 403-409.

Footnotes:

#116. In press last action. #117. In press last action. #118. In press last action. #119. In press last action. #126. In-press last merit. #127. In-press last merit.

Notations:

* = Publication included in the packet. x = Most significant works. + = Major mentoring role. @ = Refereed.

Journals In Press

- *@1. 2013 **Rosenheim, J. A.** Costs of *Lygus* herbivory on cotton associated with farmer decision-making: an ecoinformatics approach. *Journal of Economic Entomology*. ** IN PRESS **
- *x+@2. 2013 Segoli, M., and **J. A. Rosenheim**.. The link between egg production and host density in a parasitoid insect: comparison among agricultural and natural habitats. *Functional Ecology*. ** IN PRESS **
- *x+@3. 2013 Segoli, M., and **J. A. Rosenheim**. Limits to the reproductive success of two insect parasitoid species in the field. *Ecology*. ** IN PRESS **
- *+@4. 2013 Sivakoff, F. J., **J. A. Rosenheim**, P. Dutilleul, and Y. Carrière. Influence of the surrounding landscape on crop colonization by an insect pest. *Entomologia Experimentalis et Applicata*. ** IN PRESS **

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Journals Submitted

- *@1. 2010 Parsa, S., R. Ccanto, J. Alcazar, M. Scurrah, and **J. A. Rosenheim**. Estimating factors influencing Andean potato weevil infestations: an information theoretic approach. *Crop Protection*. ** SUBMITTED **
- *@2. 2010 Forbes, A. A., and **J. A. Rosenheim**. Phosphorus nutrition modulates plant responses to insect herbivore damage. *Ecological Applications*. ** SUBMITTED **
- *+@3. 2013 Segoli, M., and **J. A. Rosenheim**. Spatial and seasonal variation in sugar availability for insect parasitoids in agricultural fields and consequences for reproductive success. *Biological Control (in revision)*. ** SUBMITTED **
- *x+@4. 2013 **Rosenheim, J. A.**, and M. H. Meisner. Ecoinformatics reveals yield gaps associated with *Lygus hesperus* herbivory on cotton. *PLoSOne*. ** SUBMITTED **
- *x+@5. 2013 Segoli, M., C. Stouthamer, P. Rugman-Jones, R. Stouthamer, and **J. A. Rosenheim**. The effect of Wolbachia on the lifetime reproductive success of its insect host in the field. *Biology Letters*. ** SUBMITTED **
- *x@6. 2013 **Rosenheim, J. A.**, N. M. Williams, and S. J. Schreiber. Parental optimism versus parental pessimism in plants: how common should we expect pollen limitation to be? *American Naturalist*. ** SUBMITTED **
- *x@7. 2013 Schreiber, S. J., **J. A. Rosenheim**, L. D. Harder, and N. W. Williams. Evolutionary and ecological consequences of multiscale variation in pollen receipt on plant reproduction. *American Naturalist*. ** SUBMITTED **
- *x+@8. 2013 Meisner, M. H., and **J. A. Rosenheim**. Ecoinformatics reveals effects of crop rotational histories on cotton yield. *PLoSOne*. ** SUBMITTED **

Notations:

* = Publication included in the packet. x = Most significant works. + = Major mentoring role. @ = Refereed.

Book Chapters In Press

- *@1. 2010 Daane, K. M., R. Coviello, W. J. Bentley, and **J. A. Rosenheim**:
Variegated leafhopper (LETTER), L. Bettiga and W. J. Bentley, (ed), *UC
IPM Grape Pest Management Manual*, University of California, Division of
Agriculture and Natural Resources, Oakland. ** IN PRESS **
- *@2. 2010 Daane, K. M., **J. A. Rosenheim**, R. J. Smith, and R. Coviello: Grape
leafhopper (LETTER), L. Bettiga and W. J. Bentley, (ed), *UC IPM Grape
Pest Management Manual*, University of California, Division of Agriculture
and Natural Resources, Oakland. ** IN PRESS **

Notations:

* = Publication included in the packet. @ =
Refereed.

Books Reviewed

1. 1994 **Rosenheim, J. A.** Parasitoids: attractive model systems. Invited book review: Parasitoids: behavioral and evolutionary ecology by H. C. J. Godfray. *Trends in Ecology and Evolution*, 9: 194.
 2. 1994 **Rosenheim, J. A.** Invited book review: The Design and Analysis of Research Studies, Bryan F. J. Manly. *Mathematical Biosciences*, 121: 249-250.
-

Books Authored

1. 1992 Tabashnik, B. E., **J. A. Rosenheim**, and M. A. Caprio: What do we really know about management of insecticide resistance?, I. Denholm, (ed), *Resistance '91*, Elsevier, Essex, U.K.. 124-134.
 2. 1993 **Rosenheim, J. A.**: Comparative and experimental approaches to understanding insect learning, D. R. Papaj and A. C. Lewis, (ed), *Insect learning: ecological and evolutionary perspectives*, Chapman and Hall, New York. 273-307.
 3. 1994 Spollen, K. M., **J. A. Rosenheim**, and M. A. Hoy: Intraspecific variation in response to pesticides in *Aphytis melinus* DeBach from California citrus: results of natural and artificial selection between 1984-1991, D. Rosen, (ed), *Advances in the Study of Aphytis*. Intercept Ltd., Andover, U.K.. 191-208.
 4. 1994 **Rosenheim, J. A.**, and G. E. Heimpel: Sources of intraspecific variation in oviposition and host-feeding behavior, D. Rosen, (ed), *Advances in the Study of Aphytis*. Intercept Ltd., Andover, U.K.. 41-78.
 5. 1996 **Rosenheim, J. A.** & L. Godfrey: UC Statewide IPM Manual, *IPM for Cotton*, 94-97.
 6. 1998 Schmidt, J., J. Taylor, and **J. A. Rosenheim**: Cannibalism and intraguild predation in the predatory Heteroptera, M. Coll and J. Ruberson, (ed), *Predatory Heteroptera in Agroecosystems: Their Ecology and Use in Biological Control*, Thomas Say Publication of the Entomological Society of America, 131-169.
 7. 1998 Murphy, B. C., **J. A. Rosenheim**, J. Granett, C. H. Pickett, and R. V. Dowell: Measuring the impact of a natural enemy refuge: the prune tree/ vineyard example, C. H. Pickett and R. L. Bugg, (ed), *Enhancing Natural Control of Arthropod Pests Through Habitat Management*, Wiley & Sons, 297-309.
 8. 2006 **Rosenheim, J. A.**, and J. P. Harmon: The influence of intraguild predation on the suppression of a shared prey population: an empirical reassessment, J. Brodeur and G. Boivin, (ed), *Trophic and Guild Interactions in Biological Control*, Springer, New York. 1-20.
-

Limited Distribution

1. 1991 Rosenheim, J.A. and C. Armer. Enhancing biological control of pear psylla with the specialist predator, *Psenulus alienus* (Hymenoptera: Sphecidae). *1992 Final Research Report, Pear Research Board*.
 2. 1992 Rosenheim, J., and L. Wilhoit. Early-season cotton aphids: Pests or beneficials? *California Cotton Review*, 24: 1-3.
 3. 1993 Rosenheim, J., L. Wilhoit, and T. Kerby. When during the growing season is the cotton aphid a pest? *California Cotton Review*, 30: 1-2.
 4. 1993 Wilhoit, L. and J. Rosenheim. The many forms (morphs) of the cotton aphid. *California Cotton Review*, 30: 2-5.
 5. 1997 Limburg, D.D. and J.A. Rosenheim. The role of extrafloral nectar in the diet of the common green lacewing larva, *Chrysoperla carnea*. M.S. Hoddle (Ed.). *Proceedings, California Conference on Biological Control, Berkeley, CA*, 208-210.
 6. 1997 Colfer, R.G., J.A. Rosenheim, L.D. Godfrey, and C.L. Hsu. Ecological factors influencing biological control of spider mites in cotton. Hoddle, M.S. (Ed.). *Proceedings, California Conference on Biological Control, Berkeley, CA*, 122-126.
 7. 2001 Fournier, V., M.W. Johnson, J.A. Rosenheim, and J. Brodeur. Rust mite and powdery mildew impact on papaya production. *37th Annual Hawaii Papaya Industry Association Conference, Proceedings HITAHR, College of Tropical Agriculture and Human Resources, University of Hawaii*.
 8. 2004 Zink, A., and J.A. Rosenheim. The relationship between *Lygus* counts and square retention: a new look at an old pest. *California Cotton Review*, 71: 3-5.
-

Presentations

1. 2007 December 11, Bioinformatics for IPM: using consultant generated data to solve problems in applied insect ecology, Poster, Entomological Society of America, San Diego.
2. 2007 December 11, Egg limitation and lifetime reproductive success: theory and a test, Submitted talk, Entomological Society of America, San Diego.
3. 2008 March 13, Response of cotton to Lygus herbivory, Cotton Workgroup Meeting, Tulare, CA.
4. 2008 April 2, Cotton compensation for Lygus herbivory: an ecoinformatics approach, Pacific Branch Entomological Society of American, Napa, CA (Invited symposium).
5. 2008 October 7, Evolutionary balancing of fitness limiting factors, Center for Population Biology weekly seminar, UC Davis.
6. 2008 November 16, Bioinformatics for IPM: using consultant-derived data to solve difficult problems in applied insect ecology, Poster presentation. (national meeting of the Entomological Society of America, Reno, NV).
7. 2009 May 5, Response of cotton to Lygus herbivory, Cotton Workgroup Meeting, Tulare, CA.
8. 2009 May 11, Evolutionary balancing of fitness limiting factors, UC Berkeley, Department of Environmental Science, Policy, and Management, invited seminar.
9. 2009 July 29, Evolutionary balancing of fitness limiting factors and the predictability of ecology, Plenary address, 1st International Entomophagous Insects Conference, Minneapolis, MN.
10. 2010 February 2, Trophic complexity in communities of biocontrol agents: opportunities and challenges, invited seminar, Association of Applied Insect Ecologists annual meeting, Napa, CA.
11. 2010 March 23, Ecoinformatics for IPM: expanding the applied ecologist's toolkit, USDA-AFRI poster presentation, Washington DC.
12. 2010 March 23, Cannibalism and its implications for biological control, USDA-AFRI poster presentation, Washington DC.
13. 2010 May 19, Impact of Lygus on cotton performance: an ecoinformatics approach, Cotton Workgroup/Cotton Incorporated meeting, Tulare, CA.
14. 2010 May 19, The role of phosphorus in mediating the interaction of Lygus with cotton, Cotton Workgroup/Cotton Incorporated meeting, Tulare, CA.