

Publications

*When first author is associated with my laboratory (as indicated by *, **, *** or †) my name appears at the end as the laboratory leader. Otherwise, order of authors follows contribution to the presented publication (from larger to smaller contribution).*

* Undergraduate students working at my laboratory

** Graduate students from my laboratory

*** Post-doc from my laboratory

† Graduate students, post-docs or visiting scientists that interned at my laboratory

Refereed and Peer-reviewed publications

Feria-Arroyo, P., Castro-Arellano, I., Gordillo-Perez, G., Cavazos, A.L., Vargas-Sandoval, M., Grover, A., Torres, J., **Medina, R.F.**, Pérez de León, A., and Esteve-Gassent, M.D. 2014. Implications of Climate Change on the Distribution of the Tick Vector *Ixodes scapularis* and Risk for Lyme Disease in the Texas-Mexico Transboundary Region. *Parasites and vectors* 7:199

Joyce***, A.L., White, W, & **Medina, R. F.** 2014. Host plants impact courtship vibration transmission and mating success of a parasitoid wasp, *Cotesia flavipes* (Hymenoptera: Braconidae). *Evolutionary Ecology* 28: 361-372

Medina, R.F., Szendrei†, Z., Harrison**, K., Isaacs, R., Averill, A., Malo, E., Rodriguez-Saona, C. 2014. Exploring host-associated differentiation in the North American native cranberry fruitworm, *Acrobasis vaccinii* (Lepidoptera: Pyralidae), from blueberries and cranberries. *Entomologia Experimentalis et Applicata* 150: 136-148

Bellota-Villafuerte**, E., **Medina, R. F.**, Bernal, J. S. 2013. Physical leaf defenses - altered by *Zea* life-history evolution, domestication, and breeding - mediate oviposition preference of a specialist leafhoppers. *Entomologia Experimentalis et Applicata* 149: 185-195

Barman**, A.K., Sansone, C.G. Parajulee, M.N, and **Medina, R.F.** 2013. Population genetic structure of *Pseudatomoscelis seriatus* (Hemiptera: Miridae) in the cotton growing regions of the United States. *Journal of Economic Entomology* 106: 2225-2233

Simonato†, M., Battisti, A., Zovi, D., and **Medina, R.F.**, 2012. Testing for host associated differentiation in two egg parasitoids of a forest herbivore. *Entomologia Experimentalis et Applicata* 145: 124-133

Dickey**, A.M., and **Medina, R.F.** 2012. Host-associated genetic differentiation in pecan leaf phylloxera. *Entomologia Experimentalis et Applicata* 143:127-137

Medina, R.F., Reyna*, S.M., and Bernal, J.S. 2012. Population genetic structure of a specialist leafhopper on *Zea*: Likely anthropogenic and ecological determinants of gene flow. *Entomologia Experimentalis et Applicata* 142: 223-235

Barman**, A.K., Parajulee, M.N., Sansone, C.G., Suh, C.P.C., and **Medina, R.F.** 2012. Geographic pattern of host-associated differentiation in *Pseudatomoscelis seriatus* (Reuter). *Entomologia Experimentalis et Applicata* 143:31-41

- Barman**, A.K., Parajulee, M.N., Sansone, C.G., and **Medina, R.F.** 2012. Host preference of cotton fleahopper, *Pseudatomoscelis seriatus* (Reuter) is not labile to geographic origin and prior experience. *Environmental Entomology* 41: 125-132
- Hartfield**, E., Harris, M.K, and **Medina, R.F.** 2012. Population structure of *Acrobasis nuxvorella*. *Agricultural and Forest Entomology* 14: 119-125
- Dickey**, A.M., and **Medina, R.F.** 2011. Immigrant inviability in yellow pecan aphid. *Ecological Entomology* 36: 526-531
- Hartfield**, E., Harris, M.K, and **Medina, R.F.** 2011. Relative abundance and flight phenology of two pheromone types of *Acrobasis nuxvorella* Neunzig (Lepidoptera: Pyralidae). *Environmental Entomology*, 40: 889-892
- Dickey**, A.M., and **Medina, R.F.** 2011. Lack of sequential radiation in a parasitoid of a host-associated aphid. *Entomologia Experimentalis et Applicata* 139: 154-160
- Medina, R.F.**, Nachappa, P., and Tamborindeguy, C. 2011. Differences in bacterial diversity of host-associated populations of *Phylloxera notabilis* Pergande (Hemiptera: Aphididae) in pecan and water hickory. *Journal of Evolutionary Biology* 24: 761-771
- Sánchez-Peña, S.R., **Medina, R.F.**, San-Juan Lara[†], J. 2011. Occurrence of entomopathogenic fungi populations from agricultural and natural ecosystems and their virulence. *Journal of Insect Science* 11(1): 1-10
- Joyce***, A.L., Bernal, J.S., Vinson, S.B., Hunt, R.E., Schulthess, F., and **Medina, R.F.** 2010. Geographic variation in male courtship acoustics and reproductive isolation of populations of *Cotesia sesamiae* (Hymenoptera: Braconidae) and *Cotesia flavipes*. *Entomologia Experimentalis et Applicata* 137:153-164
- Hartfield**, E., Harris, M.K, and **Medina, R.F.** 2010. Searching for pheromone strains in the pecan nut casebearer. *Entomologia Experimentalis et Applicata* 137:11-18
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- Medina, R. F.**, and Barbosa, P. 2008. The Role of host-plant species in the phenotypic differentiation of sympatric populations of *Aleiodes nolophanae* and *Cotesia marginiventris*. *Entomologia Experimentalis et Applicata* 128: 14-26
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Medina, R. F., and Barbosa, P. 2002. Predation of small and large *Orgyia leucostigma* (J.E. Smith) (Lepidoptera: Lymantriidae) larvae by vertebrate and invertebrate predators. *Environmental Entomology* 31:1097-1102

Editor Reviewed

Way, M. O., Pearson. R.A., Nunez. M.S., Vyavhare, S. and **Medina, R.F.** 2012 Evaluation of Belt SC and Cobalt advanced for soybean insect pest control. *Arthropod Management Tests* Vol. 37. F85

Pimsler, M.L., Cosme, L., Huot, O.B., Vyavhare**, S, and **Medina, R.F.** 2014. What is the best individual solution to preserving the world's current biodiversity? Educational psychology: eco-nutrition. *In: 2013 Student Debates: Scientific Issues that Arise from a Connected World.* C.R. Minter, R.A. Schmidt-Jeffris, K. L. Coon and T. Reall (eds.). Featured Article, American Entomologist.

Book Chapters

Medina, R.F., 2012. Implications of host-associated differentiation in the control of outbreak species, in *Insect Outbreaks Revisited*, P. Barbosa, D. Letourneau, J. Shultz (eds.), Blackwell Publishing LTD, Oxford, pages: 291-310

Proceeding Papers

Heinz, K.M., Krejsa, D., **Medina, R.F.** 2013. Genetic variation in insectary-produced biological control species. *In Proceedings for the 4th International Symposium on Biological Control of Arthropods*, Pucón, Chile

Barman**, A.K., Parajulee, M.N., Sansone, C.G., and **Medina, R.F.** 2011. Population level genetic variability of cotton fleahopper in the United States. *In Proceedings Beltwide Cotton Conferences*, 4-7 January 2011, Atlanta, Georgia. National Cotton Council of America. Memphis, TN

Sansone, C.G., Parajulee, M.N., Minzenmyer, R.B., Suh, C.P., Barman**, A.K., and **Medina, R.F.** 2009. Investigation into timing and frequency of insecticide applications for cotton fleahopper. *In Proceedings Beltwide Cotton Conferences*, 5-8 January 2009, San Antonio, TX. National. Cotton Council of America. Memphis, TN

Barman**, A. K., **Medina, R.F.**, Parajulee, M.N., Suh, C.P., and Sansone, C.G. 2008. Developing AFLP markers to study genetic differentiation of the cotton fleahopper, *Pseudatomoscelis seriatus* (Reuter) (Hemiptera: Miridae). *In* Proceedings, World Cotton Research Conference, September 10-14, 2007, Lubbock, TX. CD-ROM

Abstracts

Vyavhare, S., Way, M.O., and **Medina, R.F.** 2011. Recent research on the redbanded stink bug: a pest of Texas soybeans. 23rd Annual Texas Plant Protection Conference. Bryan, TX. pp. 20-21.

Medina, R.F., and Barbosa, P., 2007. Phenotypic and genetic differentiation of hymenopteran parasitoids. *Journal of Insect Science* 7:15