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**AD-421 Publications for Reports in-Progress and Submitted to CRIS for TEX as of 10/05/2004**  
**for Entomology -- 0910 by Investigator**

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**Project Number:** TEX08031

***BIOLOGICAL CONTROL OF ARTHROPOD PESTS AND WEEDS***

Mohamed, S. A., W. A. Overholt, R. A. Wharton, S. A. Lux, E. M. Eltoun. 2003. Host specificity of *Psytalia cosyrae* (Hymenoptera: Braconidae) and the effect of different host species on parasitoid fitness. *Biological Control* 28: 155-163.

Diaz, R., Knutson, A., Bernal, J. S. 2003. Effects of the red imported fire ant on cotton aphid population density and predation of bollworm and beet armyworm eggs. *J. Econ. Entomol.* (in press).

Bernal, J. S., Prasifka, J., Setamou, M., Heinz, K. M. 2003. Transgenic insecticidal cultivars in integrated pest management: challenges and opportunities. In: O. Koul, G. S. Dhaliwal, and G. W. Cuperus (eds.), *Integrated Pest Management: Potential, Constraints and Challenges*. CABI, Oxfordshire, pp. 123-145 (in press).

Legaspi, J.C., Legaspi, Jr., B. C., Bernal, J. S., Setamou, M. 2003. Insect Resistant Transgenic Crops Expressing Plant Lectins. In: O. Koul and G. S. Dhaliwal (eds.), *Transgenic Crop Protection: Concepts and Strategies*. Science Publishers, Inc., Enfield, New Hampshire (in press).

Blanco, C., Bernal, J. S. 2003. Insecticidas y control biologico. In: G. Silva Aguayo and R. Hepp Gallo (eds.), *Bases para el manejo racional de insecticidas*. Universidad de Concepcion, Chillan, Chile, pp. 69-86.

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**Project Number:** TEX08707

***BIOLOGICAL CONTROL AS A COMPONENT OF SUSTAINABLE AGRICULTURAL SYSTEMS***

Bernal, J. S., Prasifka, J., Setamou, M., Heinz, K. M. 2004. Transgenic insecticidal cultivars in integrated pest management: challenges and opportunities. In: O. Koul, G. S. Dhaliwal, and G. W. Cuperus (eds.), *Integrated Pest Management: Potential, Constraints and Challenges*. CABI, Oxfordshire, pp. 123-145 (in press).

Legaspi, J.C., Legaspi, Jr., B. C., Bernal, J. S., Setamou, M. 2004. Insect Resistant Transgenic Crops Expressing Plant Lectins. In: O. Koul and G. S. Dhaliwal (eds.), *Transgenic Crop Protection: Concepts and Strategies*. Science Publishers, Inc., Enfield, New Hampshire (in press).

Ramirez Romero, R., Chafaux, J., Gillogly, P., Bernal, J., Kaiser, L. 2004. Cry1Ab protoxin effects on *Spodoptera frugiperda* and its parasitoid *Cotesia marginiventris*. Proceedings 56th International Symposium on Crop Protection, Gent, Belgium (in press).

El-Wakeil, N., Bernal, J., Vidal, S. 2004. Effects of jasmonate on insect pests and natural enemies in Bt and non-Bt cotton fields. Proceedings World Cotton Research Conference-3, Cape Town, South Africa. International Cotton Advisory Council, Washington DC (in press).

Diaz, R., Knutson, A., Bernal, J. S. 2003. Effects of the red imported fire ant on cotton aphid population density and predation of bollworm and beet armyworm eggs. *J. Econ. Entomol.* (in press).

Diaz, R., A. Knutson, J. Bernal. 2003. Impact of the Red Imported Fire Ant on predators, aphids, and eggs of bollworm and beet armyworm in cotton in Texas. Proceedings of the Beltwide Cotton Conferences, Nashville, TN, pp. 1451-1453.

Blanco, C., Bernal, J. S. 2003. Insecticidas y control biologico. In: G. Silva Aguayo and R. Hepp Gallo (eds.), *Bases para el manejo racional de insecticidas*. Universidad de Concepcion, Chillan, Chile, pp. 69-86.

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**Project Number:** TEX08715

***IMPACTS OF A TRANSGENIC INSECTICIDAL CROP ON PARASITOID FITNESS AND BIOLOGICAL CONTROL PERFORMANCE***

Bernal, J. S., Prasifka, J., Setamou, M., Heinz, K. M. 2003. Transgenic insecticidal cultivars in integrated pest management: challenges and opportunities. In: O. Koul, G. S. Dhaliwal, and G. W. Cuperus (eds.), *Integrated Pest Management: Potential, Constraints and Challenges*. CABI, Oxfordshire, pp. 123-145 (in press).

Legaspi, J.C., Legaspi, Jr., B. C., Bernal, J. S., Setamou, M. 2003. Insect Resistant Transgenic Crops Expressing Plant Lectins. In: O. Koul and G. S. Dhaliwal (eds.), *Transgenic Crop Protection: Concepts and Strategies*. Science Publishers, Inc., Enfield, New Hampshire (in press).

Setamou, M., Bernal, J. S., Legaspi, J. C., Legaspi, B., Mirkov, T. E. 2002. Effects of snowdrop lectin (GNA) expressed in transgenic sugarcane on fitness of *Cotesia flavipes* (Cameron), a parasitoid of the non-target pest *Diatraea saccharalis* F. *Ann. Entomol. Soc. Amer.* 95, 75-83.

Setamou, M., Bernal, J. S., Legaspi, J. C., Mirkov, T. E. 2002. Parasitism and location of sugarcane borer hosts by *Cotesia flavipes* (Cameron) (Hymenoptera: Braconidae) on transgenic and conventional sugarcane. *Environ. Entomol.* 31, 1219-1225

Bernal, J., Setamou, M., Wachtel, B. 2002. Effects of a GNA-expressing transgenic crop cultivar on parasitoids of target and non-target insects. In: J. Casas, J. P. Monge, E. Thibout (comps.), *Proceedings 8th European Workshop on Insect Parasitoids*. Tours, France, pp. 52-53.

Bernal, J. S., Gillogly, P. O., Griset, J. G. 1999. Planificacion familiar en un parasitoide de hospederos ocultos. *Memorias, XXII Congreso Nacional de Control Biologico*. Colegio de

**Project Number:** TEX08912

***TEXAS IMPORTED FIRE ANT APPLIED RESEARCH PROGRAM***

Drees, B. M. And R. E. Gold. 2003. Development of integrated pest management programs for the red imported fire ant (Hymenoptera: Formicidae). J. Entomol. Sci. 38(2):170-180.

Drees, B. M. 2003. Fighting fire ants. Grounds Maintenance 38(2):14-21.

Merchant, M. and B. M. Drees. 2003. The Texas two-Step method: Do-it-yourself fire ant control for homes and neighborhoods. L-5070 (revised). Texas Cooperative Extension, Texas A&M University, College Station, Texas. Leaflet.

B. M. Drees, 2003. Estimated amounts of insecticide ingredients used for imported fire ant control using various treatment approaches. Fire Ant Plan Fact DSHEET 042, <http://fireant.tamu.edu>.

Riggs, N. L. and B. M. Drees. 2003. Protecting Pinned Animals From Fire Ants, Fire Ant Plan Fact Sheet 043, <http://fireant.tamu.edu>.

Drees, B. M. and C. L. Barr. 2003. Imported fire ant management for cattle production systems, Texas Cooperative Extension's Audio Visual Library (DVD/VHS#2673).

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**Project Number:** TEX08662

***URBAN INSECT PEST MANAGEMENT PROGRAM: BIONOMICS AND CONTROL OF SELECT PESTS OF IMPORTANCE IN TEXAS URBAN ENVIRONMENTS***

Drees, B.M. and R.E. Gold. 2003. Development of integrated pest management programs for the Red Imported Fire Ant. J. Entomol. Science 38:170-180.

Fisher, M.L. and R.E. Gold. 2003. Intercolony aggression in *Reticulitermes flavipes* (Isoptera: Rhinotermitidae). Sociobiology 42 (3):651-661.

Glenn, G.J. and R.E. Gold. 2003. Evaluation of commercial termiticides and baiting systems for pest management of the Formosan subterranean termite, *Copototermes formosansus* (Isoptera: Rhinotermitidae). Sociobiology 41:194-196.

Overton, K.J. 2003. Mating flight initiation and nutritional status of *Solenopsis invicta* (Hymenoptera:Formicidae) alates infected with *Thelohania solenopsae* (Microsporida: Theolohaniidae). M.S. Thesis, Texas A&M University, College Station, Tx.

Waite, T.D. 2003. Field studies of exterior-only applications with fipronil (Termidor SC) for the post-construction control of interior populations of subterranean termites (Isoptera:Rhinotermitidae). M.S. Thesis, Texas A&M University, College Station, Tx.

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**Project Number:** TEX08063

## ***TEMPORAL REGULATION OF BACULOVIRUS GENE EXPRESSION***

Wu, X. and L.A. Guarino. 2003. Autographa californica nuclear polyhedrosis virus orf-69 encodes a RNA cap (nucleoside-2'-O)-methyltransferase. J. Virol 77: 3430-3440.

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**Project Number:** TEX07931

## ***IMPROVED PECAN INSECT AND MITE PEST MANAGEMENT SYSTEMS***

Dutcher, J. D., M. K. Harris and D.A. Dean. 2003. Integration of chemical and biological insect control in native, seedling, and improved pecan production. [eds.] Southwest. Entomol. Supplement No. 27.

Harris, M.K. 2003. Pecan Nut Casebearer Management in the Far West. 37th West. Pec. Conf. Proc., Las Cruces. pp 11-16.

Harris, M. K., and D. A. Dean. 2003. Horticultural and Floricultural Entomology/Field Crop Entomology. CD-ROM (self-published).

Harris, M., A. Knutson, A. Calixto, A. Dean, L. Brooks, and B. Ree. 2003. Impact of red imported fire ant on foliar herbivores and natural enemies. In Integration of chemical and biological insect control in native, seedling, and improved pecan production. eds. J.D. Dutcher, M. K. Harris and D.A. Dean. 2003. Southwest. Entomol. Supplement No. 27: 123-34

Kulkarni, R., J. Brewer, O. Ochoa and M. Harris. 2003. Anisotropy in Hickory Shells. Proceedings of the American Society of Composites 18th Ann. Tech. Conf. Oct. 2003.

Smith, D., M. Harris and T. Liu. 2003. IPM practices by vegetable growers. Am. Entomol. 48: 236-242.

Stevenson, D. E., A. E. Knutson, W. Ree, J. A. Jackman, A. Dean, J. H. Matis, J. McVay, M. Nesbitt R. Mizell, J. Dutcher, W. Reid, M. Hall, D. Barlow, M. T. Smith, P. Mulder, M. W. Smith, J. G. Millar and M. K. Harris. 2003. Pecan nut casebearer pheromone monitoring and degree-day model validation across the pecan belt. In Integration of chemical and biological insect control in native, seedling, and improved pecan production. eds. J.D. Dutcher, M. K. Harris and D.A. Dean. 2003. Southwest. Entomol. SUP. # 27: 57-74.

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**Project Number:** TEX08872

## ***IPM COMPATIBLE REPLACEMENT TECHNOLOGIES AND CROP PROFILE UPDATE FOR PECAN IN TEXAS***

Dutcher, J. D., M. K. Harris and D.A. Dean. 2003. Integration of chemical and biological insect control in native, seedling, and improved pecan production. [eds.] Southwest. Entomol. Supplement No. 27. 142p.

Harris, M.K. 2003. Pecan Nut Casebearer Management in the Far West. 37th West. Pec. Conf. Proc., Las Cruces. pp 11-16.

Harris, M., A. Knutson, A. Calixto, A. Dean, L. Brooks, and B. Ree. 2003. Impact of red imported fire ant on foliar herbivores and natural enemies. In Integration of chemical and biological insect control in native, seedling, and improved pecan production. eds. J.D. Dutcher, M. K. Harris and D.A. Dean. 2003. Southwest. Entomol. Supplement No. 27: 123-34

Stevenson, D. E., A. E. Knutson, W. Ree, J. A. Jackman, A. Dean, J. H. Matis, J. McVay, M. Nesbitt R. Mizell, J. Dutcher, W. Reid, M. Hall, D. Barlow, M. T. Smith, P. Mulder, M. W. Smith, J. G. Millar and M. K. Harris. 2003. Pecan nut casebearer pheromone monitoring and degree-day model validation across the pecan belt. In Integration of chemical and biological insect control in native, seedling, and improved pecan production. eds. J.D. Dutcher, M. K. Harris and D.A. Dean. 2003. Southwest. Entomol. SUP. # 27: 57-74.

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**Project Number:** TEX08791

***ASSESSMENT OF THRIPINEMA NICKLEWOODI FOR WESTERN FLOWER THRIPS BIOLOGICAL CONTROL***

S. Arthurs , K. M. Heinz, and J. R. Prasifka. 2004. Controlling foliar and other above-ground pests with entomopathogenic nematodes. Submitted to Bulletin of Entomological Research.

Arthurs, S. and K. M. Heinz. 2004. Thrips parasitic nematode *Thripinema nicklewoodi* (Tylenchida: Allantonematidae) reduces feeding, reproductive fitness and tospovirus transmission by its host, *Frankliniella occidentalis* (Thysanoptera: Thripidae). Environmental Entomology. In Press.

Arthurs, S., P.C. Krauter, K.M. Heinz, and S. Thompson. 2002. In vivo rearing of *Thripinema nicklewoodi* (Tylenchida: Allantomatidae) and prospects as a biological control agent of *Frankliniella occidentalis* (Thysanoptera: Thripidae). Journal of Economic Entomology. 95 (4): 668-674.

Lim, U.T., R.G. van Driesche, and K.M. Heinz. 2002. Biological attributes of *Thripinema nicklewoodi*, a potential biological control agent of western flower thirps. Biological Control 22 (3): 300-306

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**Project Number:** TEX08792

***USE OF HOST-SIZE DEPENDENT SEX RATIO THEORY IN PARASITOID MASS-REARING PROGRAMS***

1. Chow, A. and K.M. Heinz. 2003. Biological control of leaf miners infesting ornamentals. In (K.M. Heinz, R.G. van Driesche, and M.P. Parrella, eds.) Biological control of arthropod pests in protected culture. Ball Publishing.

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**Project Number:** TEX08995

***Development of an Integrated Cyto-Molecular Map for Honey Bee***

Johnston, J. S. & G. Aquino-Perez (2004) Improved cytological preparations for high resolution

**Project Number:** TEX08001

***MOSQUITO AND AGRICULTURAL PEST MANAGEMENT IN RICELAND ECOSYSTEMS***

Johnsen, Mark M., J.K. Olson, J. Edmison and S. Schrank. 2003. WNV hits "Aggieland". ABSTRACT in: Proc. 2002 So. Central Reg. Mosq. Control Conf.; Tex. Mosq. Control Assoc.:Huntsville, TX. p. 3.

Olson, J.K. (Ed.). 2003. Proceedings of the 2002 South Central Regional Mosquito Control Conference-Beaumont, TX. Tex. Mosq. Control Assoc.:Huntsville, TX. 36 pp.

Zindler, C.M. 2003. Chrionic egg pad and egg size as indicators of desiccation resistance in *Aedes aegypti* and *Aedes albopictus* eggs. ABSTRACT in Proc. 2002 So. Central Reg. Mosq. Control Conf.; Tex. Mosq. Control Assoc.:Huntsville, TX. p. 1.

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**Project Number:** TEX08508

***INSECT COLLECTION DEVELOPMENT AND INSECT SYSTEMATICS***

Makarkin, V. N.; Archibald, S. B.; Oswald, J. D. 2003. New early Eocene brown lacewings (Neuroptera: Hemerobiidae) from western North America. *Canadian Entomologist* 135:637-653.

Oswald, J. D. 2003 (3 February). Bibliography of the Neuropterida. Version 7.01 (10,085 citations [203 new, 2511 updated]). URL:  
[http://insects.tamu.edu/research/neuropterida/neur\\_bibliography/bibhome.html](http://insects.tamu.edu/research/neuropterida/neur_bibliography/bibhome.html)

Oswald, J. D. 2003 (17 June). Bibliography of the Neuropterida. Version 7.02 (10,293 citations [213 new, 1805 updated]). URL:  
[http://insects.tamu.edu/research/neuropterida/neur\\_bibliography/bibhome.html](http://insects.tamu.edu/research/neuropterida/neur_bibliography/bibhome.html)

Oswald, J. D. 2003 (15 July). Index to the Neuropterida Species of the World. Version 1.00 (9244 species-group names). URL:  
[http://insects.tamu.edu/research/neuropterida/neur\\_sp\\_index/ins\\_search.html](http://insects.tamu.edu/research/neuropterida/neur_sp_index/ins_search.html)

Riley, E. G., S. M. Clark, and T. N. Seeno. 2003. Catalog of the leaf beetles of America north of Mexico (Coleoptera: Megalopodidae, Orsodacnidae and Chrysomelidae, excluding Bruchinae). *Coleopterists Society Special Publication* no. 1, 290 pp.

Riley, E. G. and C. S. Wolfe. 2003. An annotated checklist of the Scarabaeoidea of Texas (Coleoptera). *Southwestern Entomologist*, Supplement no. 26. 37 pp.

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**Project Number:** TEX08877

***PHEROMONE REGULATION OF HONEY BEE BEHAVIOR***

Pankiw, T, Nelson M, Page RE, Fondrk MK (2004) The communal crop: Modulation of sucrose response thresholds of pre-foraging honey bees with incoming nectar quality. *Behavioral Ecology*

and Sociobiology 55:286-292.

Pankiw T (2003) Directional change in a suite of foraging behaviors in tropical and temperate evolved honey bees (*Apis mellifera* L.). Behavioral Ecology and Sociobiology 54(5): 458-464.

Pankiw T, Page RE (2003) Effect of pheromones, hormones and, handling on sucrose response thresholds of honey bees (*Apis mellifera* L.). Journal of Comparative Physiology A 188 (9): 675-684.

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**Project Number:** TEX08582

***A COMPREHENSIVE INSECT TOXICOLOGY PROGRAM FOR KEY PESTS OF THE STATE OF TEXAS***

Chen, M.-E., Lewis, D.K., Keeley, L.L., and Pietrantonio, P.V. 2004. cDNA cloning and transcriptional expression analysis of the vitellogenin receptor from the imported fire ant, *Solenopsis invicta* (Hymenoptera: Formicidae.). Insect Mol. Biol. (accepted).

Dae-Weon Lee and P. V. Pietrantonio. 2003. In vitro expression and pharmacology of the 5-HT7-like receptor present in the mosquito *Aedes aegypti* tracheolar cells and hindgut-associated nerves. Insect Mol. Biol. 12: 561-569.

Bokonon-Ganta, A. H., J. Bernal, P.V. Pietrantonio and M. Setamou. 2003. Survivorship and development of fall armyworm, *Spodoptera frugiperda* (J. E. Smith) (Lepidoptera: Noctuidae) on conventional and transgenic maize cultivars expressing *Bacillus thuringiensis* Cry9C and Cry1A(b) endotoxins. International J. Pest Management 49 (2): 169-175.

Ph.D. Dissertation. Chen, M.-E. 2003. cDNA cloning and transcriptional regulation of the vitellogenin receptor from the imported fire ant, *Solenopsis invicta* Buren (Hymenoptera: Formicidae). Department of Entomology, Texas A&M University.

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**Project Number:** TEX08867

***FUNCTIONAL CHARACTERIZATION OF A TICK LEUCOKININ-LIKE NEUROPEPTIDE RECEPTOR***

Chen, A., Holmes, S.P. and Pietrantonio, P.V. 2003. Molecular cloning and functional expression of a serotonin receptor from the Southern cattle tick, *Boophilus microplus* (Acari: Ixodidae) (Insect Molec. Biol.; accepted).

Holmes, S. P. 2003. The characterization, functional expression and localization of the first arthropod myokinin receptor from the southern cattle tick, *Boophilus microplus* (Acari: Ixodidae). Ph.D. Dissertation. Department of Entomology. Texas A&M University.

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**Project Number:** TEX08078

***A. CALIFORNICA NPV: INTEGRAL MEMBRANE PROTEIN TRANSPORT TO INTRANUCLEAR MEMBRANES, HOST CELL INTERACTIONS TO REGULATE CELL CYCLE***

Braunagel, S.C., Russell, W.K., Rosas-Acosta, G., Russell, D.H., and Summers, M.D. (2003) Determination of the Protein Composition of the Occlusion-Derived Virus of *Autographa californica* nucleopolyhedrovirus. *Proc. Nat. Acad. Sci., USA/Section Biochemistry.* (100): 9797-9802.

Saksena, S., Braunagel, S.C., Johnson, A.E., and Summers, M.D. (2003) Molecular mechanism of targeting and integration of AcMNPV ODV-E66. American Society for Virology, Davis, CA, July 12-16, 2003.

Braunagel, S.C., Russell, W.K., Rosas-Acosta, G., Russell, D.H., and Summers, M.D. (2003) Application of Proteomics to determine the protein composition of the occlusion-derived virus of *Autographa californica* nucleopolyhedrovirus. American Society for Virology, Davis, CA July 12-16, 2003

Saksena, S., Braunagel, S.C., Johnson, A.E., and Summers, M.D. (2003) Mechanistic insights into the integration and potential sorting at the Endoplasmic Reticulum membrane of a viral envelope protein that enriches in viral-induced membranes within the Nucleus. Lost Pines Molecular Biology Conference, October 2003.

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**Project Number:** TEX03898

***BIORATIONAL METHODS FOR INTEGRATED PEST MANAGEMENT (IPM):  
BIOORGANIC AND MOLECULAR APPROACHES***

Bashir, Mir, S. Bradleigh Vinson and Jorge A. Piedrahita. 2003. Artificial maturation of female alates for the purpose of the production of only male *Solenopsis invicta* (Hymenoptera: Formicidae). *Southwestern Entomologist.* 28:19-26.

Chen, Y. P., L. Y. Lu, L. C. Skow and S. B. Vinson. 2003. Relatedness among co-existing queens within polygyne colonies of a Texas population of the fire ant, *Solenopsis invicta*. *Southwestern Entomologist.* 28:27-36.

Cooperband, M. F.; R. W. Mathews and S. B. Vinson 2003. Factors affecting the reproductive biology of *Melittobia digitata* and failure to meet the sex ratio predictions of Hamilton's local mate competition theory. *Entomologia Experimentalis et Applicata* 109:1-12.

Li, S.; P. Falabella, I. Kuriachan, S. B. Vinson, D. W. Borst, C. Malva and F. Pennacchio. 2003. Juvenile hormone synthesis, metabolism, and resulting haemolymph titre in *Heliothis virescens* larvae parasitized by *Toxoneuron nigriceps*. *J. Insect Physiol.* 49:1021-1030.

Tomov, Beverly Wachtel, J. S. Bernal and S. B. Vinson. 2003. Impacts of transgenic sugarcane expressing GNA lectin on parasitism of Mexican rice borer by *Paqrallorhogas pyralophagus* (Marsh) (Hymenoptera: Braconidae). *Environmental Entomol.* 32:866-872.

Conti, E. ; G. Salerno, F. Bin, H. J. Williams and S. B. Vinson. 2003. Chemical cues from *Murgantia histrionica* eliciting host location and recognition in the egg parasitoid *Trissolcus brochymenae*. *J. Chem. Ecol.* 29:115-130.

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**Project Number:** TEX06584

***SYSTEMATIC OF PARASITIC WASPS, WITH EMPHASIS ON BRACONIDAE OF BIOCONTROL POTENTIAL***

Mercado, I. and R. Wharton. 2003. Mexican cardiochiline genera (Hymenoptera: Braconidae), including a preliminary assessment of species groups in Toxoneuron Say and Retusigaster Danderfield, Austin and Whitfield. Journal of Natural History 37: 845-902.

Wharton, R. and H. Sitteritz-Bhatkar. 2002. Polydnviruses in the genus Mirax Haliday (Hymenoptera: Braconidae). Journal of Hymenoptera Research 11: 358-365.

Delfin-Gonzalez, H. and R. Wharton. 2002. Distribution of species and species-groups of Aleiodes (Hymenoptera: Braconidae) in Mexico. Folia Entomologia Mexicana 41: 215-227.

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**Project Number:** TEX08808

***AFRICAN TEPHRITIDAE: INVASIVE SPECIES THREATENING U.S. FRUIT & VEGETABLE PRODUCTS***

Mohamed, S. A., W. A. Overholt, R. A. Wharton, S. A. Lux, Elameen, M. Eltoum. 2003. Host specificity of *Psytalia cosyrae* (Hymenoptera: Braconidae) and the effect of different host species on parasitoid fitness. Biological Control 28: 155-163.

M. Lopez, J. Sivinski, P. Rendon, T. Holler, K. Bloem, R. Copeland, M. Trostle, and M. Aluja. 2003. Colonization of *Fopius ceratitivorus*, a newly discovered African egg-pupal parasitoid (Hymenoptera: Braconidae) of *Ceratitis capitata* (Diptera: Tephritidae). Florida Entomologist 86: 53-60.

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**Project Number:** TEX06705

***SYSTEMATICS OF PARASITIC HYMENOPTERA WITH EMPHASIS ON CHALCIDOIDEA***

Woolley, J.B. and P.E. Hanson. 2004. The Family Signiphoridae. Chapter 11.15 in Gauld, I and P.E. Hanson eds, Neotropical Hymenoptera.

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**Project Number:** TEX08793

***INSECT ADAPTATION TO PLANT DEFENSE: DECRYPTION OF GUT PROTEASE DEPLOYMENT, AND DEVELOPMENT OF SYNTHETIC RESISTANCE***

Zhu-Salzman, K., R.A. Salzman, J-E. Ahn and H. Koiwa (2003) Transcriptional regulation of sorghum defense determinants against a phloem-feeding aphid. Plant Physiol. in press

Zhu-Salzman, K., J-E. Ahn, R.A. Salzman, H. Koiwa, R.E. Shade and S. Balfe (2003) Fusion of a soybean cysteine protease inhibitor and a legume lectin enhances anti-insect activity synergistically. Agr. Forest Entomol. 5: 317-323

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**Project Number:** TEX08913

***DISSECTION OF INSECT-PLANT INTERACTIONS VIA MOLECULAR AND GENETIC APPROACHES***

Zhu-Salzman, K., H. Li, P.E. Klein and R.L. Gorena (2003) Using high-throughput amplified fragment length polymorphism to distinguish sorghum greenbug (Homoptera: Aphididae) biotypes. *Agr. Forest Entomol.* 5: 311-315

Zhu-Salzman, K., R.A. Salzman, J-E. Ahn and H. Koiwa (2003) Transcriptional regulation of sorghum defense determinants against a phloem-feeding aphid. in press

Zhu-Salzman, K., J-E. Ahn, R.A. Salzman, H. Koiwa, R.E. Shade and S. Balfe (2003) Fusion of a soybean cysteine protease inhibitor and a legume lectin enhances anti-insect activity synergistically. *Agr. Forest Entomol.* 5: 317-323

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