

Roberto M. Pereira

Associate Research Scientist



Contact

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Profile

Entomologist with B.S. degree in agronomy, M.S. and Ph.D. degrees in entomology, 25 years of experience in insect control, 19 years of experience in social insects, control of urban and public health pests, with focus on microbe/insect interactions, and microbial control of insects. Experienced in coordination of large research/demonstration programs in integrated management of fire ants, and development of public health pests. Formally trained and experienced as supervisor of laboratory and field technicians. Experience in coordination of large research/extension programs. Experienced in commercial-scale production and formulation of entomopathogens as biopesticides against insect pests, as well as basic and applied research on insect diseases. Strong communication skills and ability to effectively interact with researchers, stakeholders and general public, both in collaborative research projects and in outreach programs.

Recent Accomplishments

- 66 peer-reviewed publications, and 17 book chapters.
- 6 patents on use of entomopathogens for control of fire ants and other insect pests.
- Coordination of the Deployed War-Fighter Protection (DWFP) research program, a US Department of Defense-sponsored USDA-ARS research project (approx. US\$ 1.5 million/year).
- Coordination of USDA areawide project on integrated management of fire ants (approx. US\$ 1 million/year), and development of educational materials on fire ant biological control.
- 2006 USDA-ARS Technology Transfer Award for fire ant areawide project.
- 2006 Federal Laboratory Consortium Southeast Region Honorable Mention for Excellence in Technology Transfer.
- 2005 Achievement Award for Team Research from the Florida Entomological Society for research on first fire ant virus.
- Development of dual-action (insect and plant pathogen) control using entomopathogenic fungus *Beauveria bassiana*.
- Development of *Beauveria bassiana* as a biocontrol agent for fire ants and other pest ants.
- Discovery of 3 new fire ant diseases in Florida.
- Establishment of decapitating flies (*Pseudacteon curvatus*) in western and eastern Tennessee.
- Participation in the planning retreat for the Federal Interagency Committee on Invasive Terrestrial Animals and Pathogens (ITAP).
- Participation in the USDA-ARS Workshop on Critical Issues in Biological Control.
- Participation in grants and contracts totalling >\$1,400,000.

Education

- 1991 Ph.D., Entomology, University of Florida, Gainesville, FL Dissertation: "Evaluation of the Entomopathogenic Fungus *Beauveria bassiana* on the Red Imported Fire Ant, *Solenopsis invicta*"
- 1987 M.S., Entomology, Cornell University, Ithaca, NY. Thesis: "Dry Mycelium Formulations of Entomopathogenic Fungi, *Metarhizium anisopliae* and *Beauveria bassiana*, with Inclusion of Ultraviolet-Radiation Protectants".
- 1981 B.S., Agronomy ("Engenheiro Agronomo"), Escola Superior de Agricultura "Luiz de Queiroz" (ESALQ), Univ. de Sao Paulo, Piracicaba, Brazil. Internship, Entomology Dept.: Microbial Control of Pests. (Scholarship from Abbott Laboratories). Period: Feb. 1980 - Dec. 1981. Internship, Genetics Dept.: Sugarcane Cytology. Period: Dec. 1979 - Jan. 1980.

Other Special Training

- 2006 Florida Mosquito Control Association 2006 Dodd Plenary Short Courses. Ocala, FL.
- 2004 Success-Oriented Supervision - 2-credit correspondence course - USDA Graduate School.
- 1994 Biotechnology Training Program, Interdisciplinary Center for Biotechnology Research, University of Florida, Gainesville, FL.
- 1993 Good Laboratory Practice Standards Training Session, Entomological Society of America & Society of Quality Assurance, Indianapolis, IN.
- 1981 Sterility in Pharmaceutical and Food Industries and in Medical Facilities, Centro Latino Americano de Capacitacion Y Desarrollo de Empresas, Sao Paulo, SP, Brazil.

Employment

- 2007 - Present. Associate Research Scientist - Entomology & Nematology Dept., University of Florida, Gainesville, FL. Research and extension on urban entomology
- 2001- 2007 Entomologist - Center for Medical, Agricultural and Medical Entomology, USDA- Agricultural Research Service, Gainesville, FL.
- 2006-2007: Coordinator of project "Deployed War-Fighter Protection Research Program".
- 2001-2005: Coordinator of project "Areawide Suppression of Fire Ants in Pastures", and research on microbial control of fire ants.
- 1997 - 2001 Assistant Professor - Dept. of Entomology & Plant Pathology, University of Tennessee, Knoxville, TN. Insect pathology and microbial control of insects.
- 1993 - 1997 Assistant Scientist (nontenure faculty) - Entomology & Nematology Dept., University of Florida, Gainesville, FL. Insect pathology and biological control of fire ants, cockroaches, termites, urban ant pests, and mole crickets.
- 1991 - 1993 Postdoctoral Research Associate - Entomology & Nematology Dept., University of Florida, Gainesville, FL. Insect pathology and biological control of fire ants, cockroaches, termites, urban ant pests, and mole crickets.
- 1987 - 1991 Graduate Research Assistant - Entomology & Nematology Dept., University of Florida, Gainesville FL.
- 1985 - 1987 Graduate Research Assistant - Boyce Thompson Institute / Dept. of Entomology, Cornell University, Ithaca NY.
- 1984 Research Intern - Entomology Section of the Brazilian National Rice and Bean Research Center / EMBRAPA, Brazil. Research on insect pathology, biological control of insects, and rearing of cowpea pests.
- 1981- 1984 Director - Biomax Microbial Insecticide Laboratory - Labormax Produtos Quimicos Ltda., Brazil. Management of *Metarhizium anisopliae* production; supervision of production personnel and quality control; experimentation for product development, field demonstrations and product application.
- 1978-1979 Instructor: Lessa S.A Ingles para Brasileiros, Escolas Roosevelt, Escolas Fisk. Taught introductory English to Brazilians, and Portuguese to non-Brazilians.

Consultations

- 1995 Costa Nursery, Goulds, FL - For production and application of microbial agents for control of pests on ornamental plants.
- 1994 EMBRAPA-CPACT (Brazilian Agricultural Research System - Research Center for Temperate Climate) - Development of microbial control of fruit flies and other pests.
- 1994 EMBRAPA-CENARGEN (National Center for Genetic Resources) - Review of project on microbial control of grasshoppers.
- 1994 EMBRAPA-CNPMF (National Center for Research on Cassava and Fruit Crops) - Review of project on biological control of whiteflies and other pests.

Supervision of Students

USDA-ARS, CMAVE

- Mattie Robinson. Minority Volunteer Intern, 2004.
- LaShaun Smith. Minority Summer Intern, 2003.

Dept. of Entomology & Plant Pathology, University of Tennessee

- Shannon S. James. M.S. 1999-2001
- Brian M. Leckie. M.S. 1999-2001.
- Katrina C. Burns. M.S. 1997-1999.
- Nongpanga Doungkeaw. M.S. 1997-1999.
- Mia Williams. Ronald McNair Post-Bac. Achiev. Program, Undergraduate. 1997.

Membership on Graduate Degree Committees

Dept. of Entomology & Plant Pathology, University of Tennessee

- Danesha S. Seth. M.S. 1999-2001.
- Anthony B. Smith. M.S. 1999-2000.
- Stephanie C. French. M.S. 1997-1999.
- Kristy L. Gottfried. M.S. 1997-1999.
- Gary B. Moughler. M.S. 1997-1999.
- Melinda M. Gibbs. M.S. 1997-1998.
- Peter J. Obenauer. M.S. 1997-1998.

Dept. of Entomology & Nematology, University of Florida

- Douglas H. Sieglaff. M.S. 1994-1996.
- Margaret Pfeister. M.S. 2007-2008.
- Joseph Diclaro. Ph.D. 2007-2009.
- Wai-Han Chan. M.S. 2007-2008.
- Ricardo Vazquez. Ph.D. 2007-2009.
- Barbara Bayer, Ph.D. 2008-2011.
- Margaret Pfeister. Ph.D. 2009-2012.

Research and/or Scholarly Publications

Articles in Refereed Journals

Pfiester, M., P. G. Koehler, and R. M. Pereira. 2009. Sexual conflict to the extreme: Traumatic insemination in bed bugs. *Am. Entomol.* 55: 244-249.

Chaskopoulou, A., R. M. Pereira, M. E. Scharf, and P. G. Koehler. 2009. Vapor Toxicity of Three Prototype Volatile Insecticidal Compounds to House Fly (Diptera: Muscidae). *J. Med. Entomol.* 46: 1400-1406.

Smith, J. A., M. E. Scharf, R. M. Pereira, and P. G. Koehler. 2009. pH optimization of gut cellulase and xylanase activities from the Eastern subterranean termite, *Reticulitermes flavipes* (Isoptera: Rhinotermitidae). *Sociobiology.* 54 (1): (in press).

- Pereira, R. M., P. G. Koehler, M. Pfiester and W. Walker. 2009. Lethal effects of heat and use of localized heat treatment for control of bed bug infestations. *J. Econ. Entomol.* 102: 1182-1188.
- Pfiester, M., R. M. Pereira, and P. G. Koehler. 2009. Effect of population structure and size on aggregation behavior of the bed bug *Cimex lectularius* L. *J. Med. Entomol.* 46: 1015-1020.
- Smith, J. A., M. E. Scharf, R. M. Pereira, and P. G. Koehler. 2009. Changes in *Reticulitermes flavipes* gut cellulolytic activities in response to hardwood, softwood and cellulose diets. *J. Entomol. Sci.* 44: 256-263.
- Smith, J. A., M. E. Scharf, R. M. Pereira, and P. G. Koehler. 2009. Comparisons of gut carbohydrase activity patterns in *Reticulitermes flavipes* and *Coptotermes formosanus* [Isoptera: Rhinotermitidae] workers and soldiers. *Sociobiology.* 53:113-124.
- Chaskopoulou, A., S. Nguyen, R. M. Pereira, M. E. Scharf, and P. G. Koehler. 2009. Toxicities of 31 volatile low molecular weight compounds against *Aedes aegypti* and *Culex quinquefasciatus*. *J. Med. Entomol.* 46: 328-334.
- Smith, J. A., R. M. Pereira, and P. G. Koehler. 2008. Relative repellency and lethality of the neonicotinoids thiamethoxam and acetamiprid and an acetamiprid/bifenthrin combination to *Reticulitermes flavipes* termites. *J. Econ. Entomol.* 101: 1881-1887.
- Leckie, B. M., B. H. Ownley, R.M. Pereira, W. E. Klingeman, and C. J. Jones. 2008. Effects of *Beauveria bassiana* (Balsamo) Vuillemin mycelia and metabolites incorporated into synthetic diets on larval *Helicoverpa zea*. *Biocontrol Sci. Technol.* 18: 697-710.
- Valles S. M., C. A. Strong, W. Hunter, D. Phat, R. M. Pereira, D. H. Oi, and D. F. Williams. 2008. Expressed sequence tags from the red imported fire ant, *Solenopsis invicta*: Annotation and utilization for discovery of viruses. *J. Invertebr. Pathol.* 99: 74-81.
- Pfiester M., P. G. Koehler, and R. M. Pereira. 2008. Ability of bed bug detecting canines to locate live common bed bugs and viable bed bug eggs (*Cimex lectularius*). *J. Econ. Entomol.* 101: 1389-1396.
- Baldwin, R. W., P. G. Koehler, and R. M. Pereira. 2008. Toxicity of fatty acid salts to German and American cockroaches. *J. Econ. Entomol.* 101: 1384-1388.
- Ownley B. H., M. R. Griffin, W. E. Klingeman, K. D. Gwinn, J. K. Moulton, and R. M. Pereira. 2008. *Beauveria bassiana*: endophytic colonization and plant disease control. *J. Invertebr. Pathol.* 98: 267-270.
- Baldwin, R. W., P. G. Koehler, R. M. Pereira, and F. M. Oi. 2008. Public perceptions of pest problems. *American Entomol.* 54: 73-79.
- McManamy, K., P. G. Koehler, D. D. Branscome, and R. M. Pereira. 2008. Wood moisture content affects the survival of eastern subterranean termites (Isoptera: Rhinotermitidae), under saturated relative humidity conditions. *Sociobiology* 52: 145-156.
- Tucker, C. L., P. G. Koehler, and R. M. Pereira. 2008. Development of a method to evaluate the effects of eastern subterranean termite damage to the thermal properties of building construction materials (Isoptera: Rhinotermitidae). *Sociobiology* 51: 589-600.

- Oi, D. H. D. F. Williams, R. M. Pereira, P. M. Horton, T. S. Davis, A. H. Hyder, H. T. Bolton, B. C. Zeichner, S. D. Porter, A. L. Hoch, M. L. Boswell, and G. Williams. 2008. Combining biological and chemical controls for the management of red imported fire ants (Hymenoptera: Formicidae). *Am. Entomol.* 54: 46-55.
- Pridgeon, J. W., R. M. Pereira, L. Zhao, J. J. Becnel, G. G. Clark, D. A. Strickman, & K. J. Linthicum. 2008. Susceptibility of *Aedes aegypti*, *Culex quinquefasciatus* Say, and *Anopheles quadrimaculatus* Say to 19 pesticides with different modes of action. *J. Med. Entomol.* 45: 82-87.
- Valles S. M., C. A. Strong, D. H. Oi, S. D. Porter, R. M. Pereira, R. K. Vander Meer, Y. Hashimoto, L. M. Hooper-Bui, H. Sanchez-Arroyo, T. Davis, V. Karpakakunjarum, K. M. Vail, L. C. Graham, J. A. Briano, L. A. Calcaterra, L. E. Gilbert, K. Ward, and D. C. Thompson. 2007. Host Specificity, Distribution, and Phenology of *Solenopsis invicta* Virus. *J. Invertebr. Pathol.* 96:18-27.
- Pridgeon, J. W., K. M. Meepagala, J. J. Becnel, G. G. Clark, R. M. Pereira, & K. J. Linthicum. 2007. Structure-Activity Relationships of 33 Piperidines as Toxicants against Female Adults of *Aedes aegypti* (Diptera: Culicidae). *J. Med. Entomol.* 44: 263-269.
- Pereira, R. M. & S. D. Porter. 2006. Range expansion of the fire ant decapitating fly, *Pseudacteon tricuspis*, eight to nine years after Releases in north Florida. *Fla. Entomol.* 89: 536-538.
- Valles, S. M. & R. M. Pereira. 2005. Developmental expression of a transferrin in the red imported fire ant, *Solenopsis invicta*. *Fla. Entomol.* 88: 541-543.
- Valles, S. M. & R. M. Pereira. 2005. *Solenopsis invicta* transferrin: cDNA cloning, gene architecture, and up-regulation in response to *Beauveria bassiana* infection. *Gene* 358: 60-66.
- Pereira, R. M. 2004. Occurrence of *Myrmicinosporidium durum* in *Solenopsis invicta* and Other New Host Ants in Eastern United States. *J. Invertebr. Pathol.* 86: 38-44.
- Valles, S., C. Strong, P. Dang, W. Hunter, R. Pereira, D. Oi, A. Shapiro & D. Williams. 2004. A picorna-like virus from the red imported fire ant, *Solenopsis invicta*: initial discovery, genome sequence, and characterization. *Virology* 328: 151-157.
- Vogt, J. T., D. A. Streett, R. M. Pereira, & A.-M. A. Callcott. 2004. Mississippi areawide fire ant suppression program: unique aspects of working with black and hybrid imported fire ants. *J. Agric. Urban Entomol.* 20:105-111.
- Oi, D. H., S. M. Valles & R. M. Pereira. 2004. Prevalence of *Thelohania solenopsae* (Microsporidia: Thelohaniidae) infection in monogyne and polygyne red imported fire ants (Hymenoptera: Formicidae). *Environ. Entomol.* 33: 340-345.
- Pereira, R. M. 2003. Areawide Suppression of Fire Ant Populations in Pastures: Project Update. *J. Agric. Urban Entomol.* 20:123-130.
- Valles, S. M. & R. M. Pereira. 2003. Use of ribosomal DNA sequence to characterize and detect a neogregarine pathogen of *Solenopsis invicta* (Hymenoptera: Formicidae). *J. Invertebr. Pathol.* 84: 114-118.

- Graham, L. C., S. D. Porter, R. M. Pereira, H. D. Dorough & A. T. Kelley. 2003. Field releases of the decapitating fly *Pseudacteon curvatus* (Diptera: Phoridae) for control of imported fire ants (Hymenoptera: Formicidae) in Alabama, Florida, and Tennessee. *Fla. Entomol.* 86: 334-339.
- Williams, D.F., D.H. Oi, S.D. Porter, R.M. Pereira & J.A. Briano. 2003. Biological control of imported fire ants (Hymenoptera: Formicidae). *Am. Entomol.* 49: 144-155.
- Valles, S. M. & R. M. Pereira. 2003. Hydramethylnon potentiation in *Solenopsis invicta* by infection with the microsporidian, *Thelohania solenopsae*. *Biological Control.* 27: 95-99.
- Pereira, R. M., D. F. Williams, J. J. Becnel & D. H. Oi. 2002. Yellow head disease caused by a newly discovered *Mattesia* sp. in populations of the red imported fire ant, *Solenopsis invicta*. *J. Invertebr. Pathol.* 81: 45-48.
- James, S. S., R. M. Pereira, K. M. Vail & B. H. Ownley. 2002. Survival of imported fire ant species subjected to freezing and near-freezing temperatures. *Environ. Entomol.* 31: 127-133.
- Alves, S. B., L. A. Alves, R. B. Lopes, R. M. Pereira & S. A. Vieira. 2002. Potential of some *Metarhizium anisopliae* isolates for control of *Culex quinquefasciatus*. *J. Appl. Entomol.* 126: 504-509.
- Alves, S. B., L. S. Rossi, R. B. Lopes, M. A. Tamai & R. M. Pereira. 2002. *Beauveria bassiana* yeast phase on agar medium and its pathogenicity against *Diatraea saccharalis* (Lepidoptera: Crambidae) and *Tetranychus urticae* (Acari: Tetranychidae). *J. Invertebr. Pathol.* 81: 70-77.
- Moino Jr., A., S. B. Alves, R. B. Lopes, P. M. O. J. Neves, R. M. Pereira, & S. A. Vieira. 2002. External development of the entomopathogenic fungi *Beauveria bassiana* and *Metarhizium anisopliae* on the subterranean termite *Heterotermes tenuis*. *Scientia Agricola* 59: 267-273.
- Broza, M., R. M. Pereira & J. L. Stimac. 2001. The nonsusceptibility of soil Collembola to insect pathogens and their potential as scavengers of microbial pesticides. *Pedobiologia* 45: 523-534.
- Batista Filho, A., S. B. Alves, N. T. Augusto, R. M. Pereira & L. F. A. Alves. 2001. Stability and persistence of formulations containing *Anticarsia gemmatalis* Nuclear Polyhedrosis Virus (AgMNPV). *Neotrop. Entomol.* 30: 411-416.
- Giustolin, T. A., J. D. Vendramim, S. B. Alves, S. A. Vieira & R. M. Pereira. 2001. Susceptibility of *Tuta absoluta* (Meyrick) (Lep., Gelechiidae) reared on two species of *Lycopersicon* to *Bacillus thuringiensis* var. *kurstaki*. *J. Appl. Entomol.* 125: 551-556.
- Elliott, M., E. Des Jardin, W. Batson, Jr., J. Caceres, P. Brannen, C. Howell, M. Benson, K. Conway, C. Rothrock, R. Schneider, B. Ownley, C. Canaday, A. Keinath, D. Huber, D. Sumner, C. Motsenbocker, P. Thaxton, M. Cubeta, P. Adams, P. Backman, J. Fejardo, M. Newman, and R. Pereira. 2001. Viability and stability of biological control agents used for disease management on cotton and snap bean seeds. *Pest Manag. Sci.* 57: 695-706.
- Sieglauff, D. H., R. M. Pereira & J. L. Capinera. 1998. Microbial control of *Schistocerca americana* (Orthoptera: Acrididae) by *Metarhizium flavoviride* (Deuteromycotina): instar dependent mortality and efficacy of ultra low volume application under greenhouse conditions. *J. Econ. Entomol.* 91: 76-85.

- Moino, Jr., A., S. B. Alves & R. M. Pereira. 1998. Efficacy of *Beauveria bassiana* (Balsamo) Vuillemin isolates for control of stored grain pests. *J. Appl. Entomol.* 122: 301-305.
- Pereira, R. M. & J. L. Stimac. 1997. Biocontrol options for urban pest ants. *J. Agric. Entomol.* 14: 231-248.
- Sieglaff, D. H., R. M. Pereira & J. L. Capinera. 1997. Pathogenicity of *Beauveria bassiana* and *Metarhizium flavoviride* (Deuteromycotina) to *Schistocerca americana* (Orthoptera: Acrididae). *J. Econ. Entomol.* 90: 1539-1545.
- Alves, L. F. A., S. B. Alves, R. M. Pereira & D. M. F. Capalbo. 1997. Production of *Bacillus thuringiensis* Berliner var. *kurstaki* grown in alternative media. *Biocontrol Sci. Technol.* 7: 377-383.
- Almeida, J. E. M., S. B. Alves & R. M. Pereira. 1997. Selection of *Beauveria* spp. isolates for control of the termite *Heterotermes tenuis* (Hagen, 1958). *J. Appl. Entomol.* 121: 539- 544.
- Alves, S. B., R. M. Pereira, J. L. Stimac & S. A. Vieira. 1996. Delayed germination of *Beauveria bassiana* conidia after prolonged storage at low, above freezing temperatures. *Biocontrol Sci. Technol.* 6: 575-581.
- Alves, S. B., L. C. Marchini, R. M. Pereira & L. L. Baumgratz. 1996. Effects of some insect pathogens on the africanized honey bee, *Apis mellifera*. *J. Appl. Entomol.* 120: 559-564.
- Alves, S. B., J. E. M. Almeida, A. Moino Jr., J. L. Stimac & R. M. Pereira. 1995. Use of *Metarhizium anisopliae* and *Beauveria bassiana* for control of *Cornitermes cumulans* (Kollar, 1832) in pastures. (Uso de *Metarhizium anisopliae* e *Beauveria bassiana* no controle de *Cornitermes cumulans* (Kollar, 1832) em pastagens). *Ecosistema* 20: 50-57. (In Portuguese).
- Oi, D. H., R. M. Pereira, J. L. Stimac & L. A. Wood. 1994. Field applications of *Beauveria bassiana* for control of the red imported fire ant (Hymenoptera: Formicidae). *J. Econ. Entomol.* 87: 623-630.
- Pereira, R. M., J. L. Stimac & S. B. Alves. 1993. Soil antagonism affecting the dose-response of workers of the red imported fire ant, *Solenopsis invicta*, to *Beauveria bassiana* conidia. *J. Invertebr. Pathol.* 61: 156-161.
- Pereira, R. M., S. B. Alves & J. L. Stimac. 1993. Growth of *Beauveria bassiana* in fire ant nest soil with amendments. *J. Invertebr. Pathol.* 62: 9-14.
- Oi, D. H. & R. M. Pereira. 1993. Ant behavior and microbial pathogens. *Fla. Entomol.* 76: 63-74.
- Stimac, J. L., R. M. Pereira, S. B. Alves & L. A. Wood. 1993. Mortality in laboratory colonies of *Solenopsis invicta* Buren (Hymenoptera: Formicidae) treated with *Beauveria bassiana* (Balsamo) Vuillemin (Deuteromycetes). *J. Econ. Entomol.* 86: 1083-1087.
- Stimac, J. L., R. M. Pereira, S. B. Alves & L. A. Wood. 1993. *Beauveria bassiana* (Balsamo) Vuillemin (Deuteromycetes) applied to laboratory colonies of *Solenopsis invicta* Buren (Hymenoptera: Formicidae) in soil. *J. Econ. Entomol.* 86: 348-352.
- Pereira, R. M. & J. L. Stimac. 1992. Transmission of *Beauveria bassiana* within artificial nests of *Solenopsis invicta* (Hymenoptera: Formicidae) in the laboratory. *Environ. Entomol.* 21: 1427-1432.

- Pereira, R. M. & D. W. Roberts. 1991. Alginate and cornstarch formulations of entomopathogenic fungi, *Beauveria bassiana* and *Metarhizium anisopliae*. *J. Econ. Entomol.* 84: 1657-1661.
- Alves, S. B., J. L. Stimac & R. M. Pereira. 1991. Effects of extracts of *Solenopsis* spp. and *Diatraea saccharalis* on the fungi *Beauveria bassiana* and *Metarhizium anisopliae*. (Efeitos de extratos de *Solenopsis* spp. e *Diatraea saccharalis* sobre os fungos *Beauveria bassiana* e *Metarhizium anisopliae*). *Ecossistema* 16: 54-59. (In Portuguese).
- Pereira, R. M. & D. W. Roberts. 1990. Dry mycelium preparations of entomopathogenic fungi, *Metarhizium anisopliae* and *Beauveria bassiana*. *J. Invertebr. Pathol.* 56: 39-46.
- Alves, S. B. & R. M. Pereira. 1989. Production of *Metarhizium anisopliae* (Metsch.) Sorok. and *Beauveria bassiana* (Bals.) Vuill. in trays. (Producao do *Metarhizium anisopliae* (Metsch.) Sorok e *Beauveria bassiana* (Bals.) Vuill. em bandejas). *Ecossistema* 14: 188- 192. (In Portuguese).
- Alves, S. B., S. Silveira Neto, R. M. Pereira & N. Macedo. 1987. Study of formulations of *Metarhizium anisopliae* (Metsch.) Sorok. under different storage conditions. (Estudo de formulacoes do *Metarhizium anisopliae* (Metsch.) Sorok. em diferentes condicoes de armazenamento). *Ecossistema* 12: 78-87. (In Portuguese).
- Daoust, R. A. & R. M. Pereira. 1986. Survival of *Beauveria bassiana* conidia on the cadavers of cowpea pests stored outdoors and in the laboratory in Brazil. *Environ. Entomol.* 15: 642-647.
- Daoust, R. A. & R. M. Pereira. 1986. Stability of entomopathogenic fungi *Beauveria bassiana* and *Metarhizium anisopliae* on beetle-attracting tubers and cowpea foliage in Brazil. *Environ. Entomol.* 15: 1237-1243.
- Alves, S. B., L. A. S. Melo & R. M. Pereira. 1981. Control of sugar cane borer, *Diatraea saccharalis* (Fabr. 1794) (Lep., Pyralidae) with *Bacillus thuringiensis* Berliner, in a bait formulation. (Controle da broca-da-cana, *Diatraea saccharalis* (Fabr. 1794) (Lep., Pyralidae) com *Bacillus thuringiensis* Berliner, na forma de isca). *Ecossistema* 6: 105- 112. (In Portuguese).

Patents

- Valles, Steven M., R. M. Pereira, W. B. Hunter, D. H. Oi, C. A. Strong, P. M. Dang, David F. Williams. 2008. *Solenopsis invicta* Viruses. US 7,332,176 B1.
- Stimac, J. L. & R. M. Pereira. 2006. Methods and formulations for control of pests. U.S. Patent RE38,958.
- Stimac, J. L. & R. M. Pereira. 2005. Methods and formulations for control of pests. European Patent EP 0 751 710 B1.
- Stimac, J. L. & R. M. Pereira. 2001. Methods and formulations for control of pests. U.S. Patent 6,254,864.
- Stimac, J. L. & R. M. Pereira. 1997. Controlling cockroaches, carpenter ants, and pharaoh ants using strains of *Beauveria bassiana*. U.S. Patent 5,683,689.
- Stimac, J. L. & R. M. Pereira. 1995. Methods and formulations for control of insect pests. World Patent WO 95/25430.

Book Chapters

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a) International Meetings

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b) Domestic Meetings

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- Pereira, R. M. and P. G. Koehler 2009. Bed bugs B-B-Q: Controlling infestations with heat. Florida PestPro 5(6): 6-9.
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- Koehler, P. G. and R. M. Pereira, 2009. Selling termite service during hard economic times. Florida PestPro 5(1): 8-10.
- Pereira, R., P. Koehler, and E. Thoms (eds.). 2008. Bed Bugs: Containerized Fumigation, Heat Treatment and Other Control Methods. University of Florida. IFAS Extension.
- Koehler, P. G., W. H. Kern, Jr., and R. M. Pereira. 2008. General Household Pest Control - Applicator Training Manual, 2nd Edition. Cooperative Extension Service, University of Florida, IFAS, Gainesville.
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Alves, S. B. & R. M. Pereira. 1999. Transgenics: some questions to be answered. (Transgenicos: algumas perguntas a serem respondidas). Jornal de Piracicaba. September 29, 1999. Piracicaba, SP, Brazil. (In Portuguese).

Grants and Contracts (Funded)

- 2009-2010 Baldwin, R., P. G. Koehler, and R. M. Pereira. iPest - Interactive Field Guide to Pests. IFAS Extension Program Enhancement Grant. \$7,993.
- 2008-2010 Koehler, P. G. and R. M. Pereira. Development of New Active Ingredients, Formulations and Applications for Control of Filth Flies and Protection of Military Personnel. Deployed War-Fighter Protection Program. \$ 559,821.
- 2008-2009 Koehler, P. G. and R. M. Pereira. Factors Affecting Development of Super Colonies in Two Emerging Pest Ants, Bigheaded Ant, and Caribbean Crazy Ant. Florida Department of Agriculture and Consumer Services, Entomology & Pest Control Program. \$ 26,775.
- 2008 Koehler, P. G. and R. M. Pereira. Bed Bug Control Workshops for County Agents and the Pest Control Industry. IPM Florida Grants. \$ 6,000.
- 2007 Koehler, P. G. and R. M. Pereira. Sentricon Research. Dow AgroSciences. \$6,000.
- 2002-2004 Ownley, B. H., W. E. Klingeman, III & N. B. Quigley. Beauveria bassiana, a dual biocontrol against plant pathogens and insect pests. National Research Initiative Competitive Grants Program. \$222,535. (Participation as collaborator).
- 2001-2002 Oi, D. H., D. F. Williams, J. Briano, J. Oliver & R. Pereira. Evaluation of Isolates of the Entomopathogen *Thelethia solenopsae* for the Biological Control of Imported Fire Ants. USDA - APHIS - National Biological Control Institute. \$12,200.
- 2001 Mafra-Neto, A. & D. J. W. Morgan. The Use of Red Imported Fire Ant Brood Pheromone to Increase Specificity of Toxic Baits. USDA - Small Business Innovation Research. \$ 63,280. (Participation as collaborator).
- 2001 Gwinn, K., C. Barnes, E. Bernard, M. Buchanan, S. Hamilton, M. Logan, B. Ownley, R. Pereira, B. Reddick, C. Sams, A. Stewart & T. Tschalpinski. Bioactive Natural Products Center - Marketing activities. Univ. of Tennessee - Research and Information Technology. \$100,000.

- 2000-2001 Pereira, R. M., K. M. Vail, S. D. Porter, W. G. Haun & T. D. Crowe. Field Release of *Pseudacteon curvatus* for Biocontrol of Black and Red/Black Hybrid Imported Fire Ants in Tennessee. USDA - APHIS - National Biological Control Institute. \$13,300.
- 2000 Pereira, R. M. & B. H. Ownley. Use of Reflective Plastic Mulch for Control of Insects in Tomato Production, Knoxville Experiment Station, Institute of Agriculture, University of Tennessee. \$600.
- 2000 Ownley, B. H. & R. M. Pereira. Development of Biologically-Based Integrated Pest Management Systems for Production of Tomatoes in the Field, Knoxville Experiment Station, Institute of Agriculture, University of Tennessee. \$6,250.
- 2000 Ownley, B. H. & R. M. Pereira. Effect of Plant-Growth-Promoting Rhizobacteria on Early Growth and Yield of Tomato, Knoxville Experiment Station, Institute of Agriculture, University of Tennessee. \$500.
- 1999-2001 Vail, K. M., R. M. Pereira, D. H. Oi, D. F. Williams & J. R. Fuxa. Introduction of *Thelohania solenopsae*, a Biological Control Agent of Fire Ants in the U.S. Southern Region. USDA - Southern Regional IPM Program. \$146,032.
- 1999-2000 Pereira, R. M., K. M. Vail, S. D. Porter, C. M. Mannion, W. G. Haun & T. D. Crowe. Field Release of Phorid Flies for Biocontrol of Imported Fire Ants in Tennessee. USDA - APHIS - National Biological Control Institute. \$13,500.
- 1999-2000 Pereira, R. M. Effects of Endophytic Growth of Entomopathogenic Fungi (*Beauveria bassiana* and *Metarhizium anisopliae*) (Hyphomycetes) on Insect Pests of Tomatoes, Corn and Other Cultivated Plants, The University of Tennessee Institute of Agriculture - Idea Grant Program. \$2,285.
- 1999 Pereira, R. M. & B. H. Ownley. Development of Biologically-Based Integrated Pest Management Systems for Production of Tomatoes in the Field, Knoxville Experiment Station, Institute of Agriculture, University of Tennessee. \$9,525.
- 1999 Vail, K. M., R. M. Pereira & C. Mannion. Introduction of *Thelohania solenopsae*, a Biological Control Agent of Fire Ants, in Tennessee, Tennessee Nurserymen's Association. \$2,117.
- 1998 Pereira, R. M. & B. H. Ownley. Development of Biologically-Based Integrated Pest Management Systems for Production of Tomatoes in the Field, Knoxville Experiment Station, Institute of Agriculture, University of Tennessee. \$8,950.
- 1995-1996 Stimac, J. L. & R. M. Pereira. Microbial Control of the Southern Fire Ant in Almond Orchards with a Fungal Formulation of *Beauveria bassiana*, CIPM Inc. \$166,200.
- 1994-1995 Stimac, J. L. & R. M. Pereira. Microbial Control of the Southern Fire Ant in Almond Orchards with a Fungal Formulation of *Beauveria bassiana*, CIPM Inc. \$42,800.
- 1992 Stimac, J. L. & R. M. Pereira. Microbial Control of the Red Imported Fire Ant with a Fungal Formulation of *Beauveria bassiana*, USDA - Interregional Research Project No. 4, Biorationals Division. \$30,000.

Professional Presentations

Invited

a) International

- Co-Organizer - Symposium on Microbial Control of Social Insects. XXI International Congress of Entomology, Foz do Iguacu, Parana, Brazil. August 20-26, 2000.
- Production and formulation of fungal entomopathogens in Latin America. SIP 30th Annual Meeting, Banff, Alberta, Canada. August 24-29, 1997.
- Ant control using entomopathogens. V SICONBIOL - Simposio de Controle Biologico, Foz do Iguacu, Parana, Brazil. June 9-14, 1996.
- Production and formulation of entomopathogenic fungi. 4° SICONBIOL - Simposio de Controle Biologico, Gramado/Canela, Rio Grande do Sul, Brazil. May 15-20, 1994.

b) Domestic

- The Deployed War-Fighter Protection (DWFP) Program: Role of the USDA-ARS Center for Medical, Agricultural and Veterinary Entomology (CMAVE). Florida Mosquito Control Association, 2006 Spring Conference, St. Petersburg Beach, FL. May 17-18, 2006.
- Pathogens as potential agents in a biological warfare against the imported fire ants. Univ. of Florida - Dept. of Microbiology and Cell Science Seminar Series. Oct 31, 2005.
- Areawide suppression of fire ants. 49th Annual Meeting - South Carolina Entomological Society, October 2-3, 2003.
- Pereira, R. M., D. H. Oi & D. F. Williams. Microorganisms used for control of fire ants. SIP 36th Annual Meeting, Burlington, VT. July 26-30, 2003.
- Pereira, R. M. & D. H. Oi. Interactions between pathogens and ant behavior. Entomological Society of America 2002 Annual Meeting, Ft. Lauderdale, FL. November 17-20, 2002.
- Areawide suppression of fire ant populations in pastures: project overview. Military Engineers Society. Ft. Jackson, SC. October 2002.
- Pereira, R. M. & K. M. Vail. Update on biological control of fire ants. Annual meeting of the Ames Plantation Trustees, Grand Junction, TN. October 2000.
- Pereira, R. M. & K. M. Vail. Biological control of fire ants. Annual meeting of the Ames Plantation Trustees, Grand Junction, TN. November 1999.
- Fire ants: Can we control them with biological agents. Science Forum, University of Tennessee, Knoxville, TN. September 1999.
- Use of the entomopathogenic fungus *Beauveria bassiana* for control of fire ants. SIP 32th Annual Meeting, Irvine, CA. August 22-27, 1999.
- Using biopesticides for insect control in vegetable production. Tennessee Soil Conservation Meeting, Knoxville, TN. June 17, 1997.
- Biological control options for urban pest ants. ESA 43rd Annual Meeting, Louisville, KY. December 8-12, 1996.
- Field applications of *Beauveria bassiana* for control of fire ants. SIP 28th Annual Meeting, Ithaca, NY. July 16-21, 1995.
- The use of entomopathogenic fungi for biological control of red imported fire ants. ESA 40th Annual Meeting, Indianapolis, IN. December 12-16, 1993.
- Co-Chairman and Organizer - Symposium on Pathogens and Diseases of Social Insects. SIP XXIV Annual Meeting, Flagstaff, AZ. August 4-9, 1991.

Invited Lectures at Educational Institutions

- Insect Pathology and Microbial Control of Insects. Dept. of Entomology and Plant Pathology, University of Tennessee. Course: Field Crop and Vegetable Insects (EPP 523). Fall 1999.
- Use of *Thelohania solenopsae* to control fire ants, *Solenopsis* spp. Departamento de Entomologia, Escola Superior de Agricultura "Luiz de Queiroz" - Universidade de Sao Paulo. Course: Insect Pathology. June 1999.
- Microbial Control of Insects. Dept. of Entomology and Plant Pathology, University of Tennessee. Course: Economic Entomology (EPP 321). Spring 1998.
- Insect pathology and microbial control of insects: facts and possibilities. Department of Biological Sciences, East Tennessee State University. January 1998.

Invited Lectures at Educational Institutions

- Insect Pathology and Microbial Control of Insects. Dept. of Entomology and Plant Pathology, University of Tennessee. Course: Field Crop and Vegetable Insects (EPP 523). Fall 1999.
- Use of *Thelohania solenopsae* to control fire ants, *Solenopsis* spp. Departamento de Entomologia, Escola Superior de Agricultura "Luiz de Queiroz" - Universidade de Sao Paulo. Course: Insect Pathology. June 1999.
- Microbial Control of Insects. Dept. of Entomology and Plant Pathology, University of Tennessee. Course: Economic Entomology (EPP 321). Spring 1998.
- Insect pathology and microbial control of insects: facts and possibilities. Department of Biological Sciences, East Tennessee State University. January 1998.

Technology-Transfer Presentations

a) Field-Day Presentations

- Biological Control of Fire Ants in Tennessee. Biomass, Fire Ants & Japangrass Field Day, Ames Plantation Experiment Station. August 2000.
- Biological Control of Fire Ants in Tennessee. UT Summer Celebration 2000, West Tennessee Experiment Station. July 2000.
- Fire Ant Control. UT Beef and Forage Field Day, Knoxville Experiment Station, Blount Unit. June 2000.
- Biological Control of Fire Ants in Tennessee. Fire Ant Workshop, Tellico Plains Community Center, Tellico Plains. February 2000.
- Extinguishing fire ants - Part II: introduction of biological control. Forest and Wildlife Celebration: Benefits for Everyone, Chickasaw State Forest, State Park, and Wildlife Management Area. October 8, 1998.
- Using biopesticides for insect control. Vegetable Field Day, Knoxville Experiment Station. June 12, 1997.

b) Stakeholder-Group Presentations

- Ant pests. Southeast Pest Management Conference, Gainesville, FL. May 7-9, 2007. FPMA region meeting, Brooksville, FL. May 23, 2007. FPMA region meeting, Jacksonville, FL. Jul 10, 2007. COSWEL meeting, Ft. Myers, FL. Sep 6, 2007. FPMA region meeting, Crestview, FL. Sep 18, 2007.
- Ant control. FPMA region meeting, Ft Myers, FL. Oct 25, 2007.
- Ants. Pinellas County Pest Control operators, Largo, FL. Nov 7, 2007.
- Termite technician training. FPMA Termite Symposium, Orlando FL. Nov 30, 2007.
- Red Imported Fire Ants: Biology & Control. Pest Management Technology IPR, US Army Center for Health and Preventive Medicine - North. Oct 17-21, 2005.
- Integrated Management of Fire Ant Populations on Military Installations. 2004 Department of Defence Pest Management Workshop. February 9 - 13, 2004.
- Technology Transfer / Establishing an IPM Program. DoD/USDA/Clemson University - Workshop on red imported fire ant (RIFA) best management practices. September 13, 2003.
- Areawide control of imported fire ants. Armed Forces Pest Management Board - Annual Review of Pest Management Research. Ft. Collins, CO. January 28-30, 2003.
- Biological solutions for controlling fire ants. 2001. Creating a Fire Ant Free Zone - A Symposium for Research Specialists. Rhea & Kaiser Marketing Communications, Orlando, FL. November 7-8, 2001.
- Insect pathology and microbial control of insects. 1999 Meeting of the Tennessee Alternative Growers Association, Sequatchie Valley Institute, Whitwell, TN. November 4, 1999.
- Biorationals and biopesticides for insect control in ornamental crops, Tennessee Nurserymen's Association - 1998 Meeting. January 1998.
- Controlling fire ants the safe, natural way with a patented fungus. Texas and Southwestern Cattle Raisers Association 114th Annual Convention, Corpus Christi, TX. April 7-10, 1991.

Other Scientific Meeting Presentations (presenter's name in bold)

a) International Meetings

- Calixto, A., R. Pereira, S. Porter, and B. Drees. Uso de cebos para evaluar densidades poblacionales de la hormiga roja de fuego, *Dolenopsis invicta* Buren. XXXV Congreso de la Soc. Colombiana de Entomología. Santiago de Cali, Colombia. July 16-18, 2008.
- Alves, S. B., L. S. Rossi, R. B. Lopes, M. A. Tamai, & R. M. Pereira. *Beauveria bassiana* yeast phase on agar medium and its pathogenicity against *Diatraea saccharalis* and *Tetranychus urticae*. VIII International Colloquium on Invertebrate Pathology and Microbiol Control; SIP XXXV Annual Meeting, Foz do Iguacu, Brasil. August 20-26, 2002.
- James, S. S., R. M. Pereira & K. M. Vail. Cold resistance among imported fire ants. Entomological Society of America 2000 Annual Meeting, Montreal, PQ, Canada. December 3-6, 2000.
- Neves, P. J., S. B. Alves, & R. M. Pereira, . Developmental cycles of the entomopathogenic fungi *Beauveria bassiana* and *Metarhizium anisopliae* on the termite *Cornitermes cumulans* as determined from scanning electron microscope (SEM) study. XXI International Congress of Entomology, Foz do Iguacu, Brasil. August 18-23, 2000.
- Otto, D. J., J. F. Grant & R. M. Pereira. Biological control of Japanese beetle, *Popillia japonica*, in eastern Tennessee: mission impossible? Entomological Society of America 2000 Annual Meeting, Montreal, PQ, Canada. December 3-6, 2000.
- Alves, S. B., J. E. M. Almeida, A. Moino Jr., R. M. Pereira & S. Silveira Neto. Control of termite using fungi, *Beauveria bassiana* and *Metarhizium anisopliae*. *Heterotermes tenuis* (Isoptera:Rhinotermitidae) in Brazil. VI World Sugar Farmers Congress, Copenhagen, Denmark. 1997. (Poster).

- Alves, S. B., J. E. M. Almeida, A. Moino Jr., R. M. Pereira & S. Silveira Neto. Control of termite using fungi, *Beauveria bassiana* and *Metarhizium anisopliae*. *Heterotermes tenuis* (Isoptera:Rhinotermitidae) in Brazil. XX International Congress of Entomology, Firenze, Italy. August 25-31, 1996. (Poster).
- Broza, M., R. M. Pereira & J. L. Stimac. Soil Collembola feeding on the insect pathogens (*Beauveria bassiana* and *Bacillus thuringiensis*): could they remove excess biopesticide from the environment? FES 3rd International Caribbean Conference of Entomology, San Jose, Costa Rica. August 6-10, 1995.
- Alves, S. B., J. L. Stimac, R. M. Pereira & S. A. Vieira. Effect of long-term storage on the stability of *Beauveria bassiana* (Bals.) Vuill. formulations. (Efeito do armazenamento prolongado sobre a estabilidade de formulacoes de *Beauveria bassiana* (Bals.) Vuill). 15° Congresso de Entomologia - Sociedade Brasileira de Entomologia, Caxambu, Brazil. March 12-17, 1995.
- Pereira, R. M., J. L. Stimac & S. B. Alves. Germination and penetration of *Beauveria bassiana* on fire ant workers, *Solenopsis invicta*. SIP XXV Annual Meeting, Heidelberg, Germany, August 16-21, 1992; and Sociedade Entomologica do Brasil - 14° Congresso Brasileiro de Entomologia, Piracicaba, Brazil, January 24-29, 1993. (Poster).
- Alves, S. B., J. E. M. Almeida, A. M. Junior, J. L. Stimac & R. M. Pereira. Use of *Metarhizium anisopliae* and *Beauveria bassiana* for control of *Cornitermes cumulans* in pastures. SIP XXV Annual Meeting, Heidelberg, Germany. August 16-21, 1992. (Poster).
- Pereira, R. M., J. L. Stimac & D. H. Oi. Development of *Beauveria bassiana* as a microbial control for fire ants. 1992 Fire Ant Conference, San Juan, Puerto Rico. April 20-23, 1992. (Poster).
- Pereira, R. M. & J. L. Stimac. Lethal concentrations of *Beauveria bassiana* conidia against fire ants, *Solenopsis invicta*, under different bioassay conditions. SIP XXIII Annual Meeting, Adelaide, Australia. August 20-24, 1990.
- Stimac, J. L., R. M. Pereira, S. B. Alves & L. A. Wood. Field evaluation of a Brazilian strain of *Beauveria bassiana* for control of the red imported fire ant, *Solenopsis invicta*, in Florida. SIP XXIII Annual Meeting, Adelaide, Australia. August 20-24, 1990.
- Alves, S. B., L. C. Marchini, J. L. Stimac, R. M. Pereira & L. L. Baumgratz. Effects of some insect pathogens against the africanized honeybee, *Apis mellifera*. SIP XXIII Annual Meeting, Adelaide, Australia. August 20-24, 1990.
- Daoust, R. A., R. M. Pereira & D. W. Roberts. The survival of conidia of entomogenous fungi on insect cadavers, cowpea foliage and beetle-attracting tubers in Brazil. SIP XVIII Annual Meeting, Sault Ste. Marie, Canada. August 4-8, 1985.
- Pereira, R. M., S. B. Alves, O. Nakano, S. Silveira Neto & G. O. Batista. Control of larvae of the house fly, *Musca domestica* L. 1758, by the fungus *Metarhizium anisopliae* (Metsch.) Sorok. (Controle de larvas de mosca domestica, *Musca domestica* L. 1758, pelo fungo *Metarhizium anisopliae* (Metsch.) Sorok.). Sociedade Brasileira de Entomologia - 7° Congresso Brasileiro de Entomologia, Fortaleza, Brazil. July 1981.

b) Domestic Meetings

- Pereira, R. M. Overview of the USDA-ARS Role in the Deployed War-Fighter Protection (DWFP) program. 9th Annual Force Health Protection Conference. Albuquerque, NM. August 6-11, 2006.
- Porter, S. D., D. H. Oi, R. M. Pereira & S. M. Valles. Fire ant biocontrol: recent progress and future prospects. 54th Annual Meeting of the Southwestern Branch of the Entomological Society of America and the Annual Meeting of the Society of the Southwestern Entomologists. Austin, TX. February 27-March 2, 2006.
- Pereira, R. M. *Akanthomyces* sp. a newly discovered fungal pathogen affecting *Solenopsis invicta* and *Pogonomyrmex badius* in Florida. Entomological Society of America 2005 Annual Meeting, Ft. Lauderdale. December 15-18, 2005. (Poster).

- Griffin, M. R., B. H. Ownley, W. E. Klingman & R. M. Pereira. Biocontrol of *Rhizoctonia* damping-off of cotton with endophytic *Beauveria bassiana*. 2005 Annual Meeting of The American Phytopathological Society. Austin, TX. July 30 - August 3, 2005.
- Pereira, R. M. New ant hosts of *Myrmicinosporidium durum*: a widely-distributed ant pathogen? Entomological Society of America 2004 Annual Meeting, Salt Lake City, UT. November 14-17, 2004.
- Valles, S., D. Oi, R. Pereira, A. Shapiro, D. Williams, W. Hunter, C. Strong, & P. Dang. A picorna-like virus from the red imported fire ant, *Solenopsis invicta*: initial discovery, genome sequence, and characterization. Entomological Society of America 2004 Annual Meeting, Salt Lake City, UT. November 14-17, 2004.
- Pereira, R. M. & S. M. Valles. Development of the neogregarine *Mattesia* sp., causing agent of the yellow head disease, in the red imported fire ant, *Solenopsis invicta* Buren (Hymenoptera; Formicidae). Entomological Society of America 2003 Annual Meeting, Cincinnati, OH. October 26-29, 2003.
- Williams, D. F. D. H. Oi, Pereira, R. M., S. D. Porter, P. Horton, T. Davis, A. Hyder, S. Boykin, H. Bolton, B. Zeichner, A. Hoch, & M. Boswell. Imported fire ant: an integrated pest management approach. Entomological Society of America 2003 Annual Meeting, Cincinnati, OH. October 26-29, 2003.
- Pereira, R. M. Areawide suppression of fire ant populations in pasture: project overview. Annual Imported Fire Ant Research Conference, Athens, GA. March 24-26, 2002.
- Pereira, R. M., D. F. Williams, J. J. Becnel & D. H. Oi. Yellow head disease caused by a newly discovered *Mattesia* sp in populations of the red imported fire ant, *Solenopsis invicta*. Annual Imported Fire Ant Research Conference, Athens, GA. March 24-26, 2002.
- Pereira, R. M., K. M. Vail & N. Van Tol. *Myrmicinosporidium durum* in a population of *Paratrechina faisonensis* in western Tennessee. Entomological Society of America 2001 Annual Meeting, San Diego, CA. December 9-12, 2001.
- James, S. S., R. M. Pereira & K. M. Vail. Cold resistance among imported fire ants. 2001 Annual Imported Fire Ant Research and Management Conference, San Antonio, TX. February 28-March 2, 2001. (Poster).
- Pereira, R. M. Insect Pathogens from Tennessee. 27th Annual Meeting of the Tennessee Entomological Society, Jackson, TN. October 12-13, 2000.
- James, S. S., R. M. Pereira & K. M. Vail. Cold tolerance in imported fire ant. 2000 Imported Fire Ant Conference, Chattanooga, TN. April 5-7, 2000.
- James, S. S., R. M. Pereira & K. M. Vail. Cold tolerance in imported fire ant. Southeastern Branch of the Entomological Society of America 2000 Annual Meeting, Mobile, AL. February 27-March 1, 2000.
- Pereira, R. M., K. M. Vail, S. S. James & J. L. Croker. Biological control of fire ants in Tennessee. Entomological Society of America 1999 Annual Meeting, Atlanta, GA. December 12-16, 1999. (Poster).
- James, S. S., R. M. Pereira & K. M. Vail. Cold hardness in Tennessee populations of *Solenopsis invicta*, *Solenopsis richteri*, and their hybrid. Entomological Society of America 1999 Annual Meeting, Atlanta, GA. December 12-16, 1999.
- Pereira, R. M., K. M. Vail & C. M. Mannion. Biocontrol of fire ants in Tennessee: an update. 26th Annual Meeting of the Tennessee Entomological Society, Nashville, TN. October 21-22, 1999.
- James, S. S., R. M. Pereira & K. M. Vail. Cold tolerance in imported fire ant species, *Solenopsis richteri*, *S. invicta*, and their hybrid. 26th Annual Meeting of the Tennessee Entomological Society, Nashville, TN. October 21-22, 1999.
- Pereira, R. M., B. H. Ownley & T. A. Richey. Compatibility of biological control agents of soilborne plant pathogens and entomopathogenic fungi. Entomological Society of America 1998 Annual Meeting, Las Vegas, NV. December 8-12, 1998. (Poster).

- Alves, S. B. ; R. M. Pereira, J. E. M. Almeida, S. Silveira Neto & A. Moino Jr. Microbial control of *Heterotermes tenuis* (Isoptera:Rhinotermitidae) in Brazil. Entomological Society of America 1998 Annual Meeting, Las Vegas, NV. December 8-12, 1998. (Poster).
- Pereira, R. M. & K. M. Vail. *Thelohania solenopsae*: Introduction of a biological control agent against fire ants in Tennessee. 25th Annual Meeting of the Tennessee Entomological Society, McMinnville, TN. October 15-16, 1998.
- Moughler, G. B., J. F. Grant, R. M. Pereira & P. L. Lambdin. Die gypsy moth die: the search for entomopathogenic fungi in eastern Tennessee. 25th Annual Meeting of the Tennessee Entomological Society, McMinnville, TN. October 15-16, 1998.
- Moughler, G. B., J. F. Grant, R. M. Pereira & P. L. Lambdin. Search for gypsy moth larvae and the fungal pathogen *Entomophaga maimaiga* in Tennessee. Entomological Society of America 1998 Annual Meeting, Las Vegas, NV. December 8-12, 1998.
- Moughler, G. B., J. F. Grant, R. M. Pereira & P. L. Lambdin. *Entomophaga maimaiga* - the search is on in Tennessee. Southern Forest Insect Work Conference, Asheville, NC. August 3-6, 1998.
- Alves, S. B., L. A. Alves, R. B. Lopes, S. A. Vieira & R. M. Pereira. Potential of *Metarhizium anisopliae* and *Beauveria bassiana* isolates for control of *Culex quinquefasciatus*. Entomological Society of America 1997 Annual Meeting, Nashville, TN. December 14-18, 1997. (Poster).
- Sieglaff, D. H., R. M. Pereira & J. L. Capinera. Microbial control of *Schistocerca americana*. Entomological Society of America 1996 Annual Meeting, Louisville, KY. December 8- 12, 1996. (Poster).
- Pereira, R. M., J. L. Stimac & S. B. Alves. Biological control of southern fire ants, *Solenopsis xyloni* using bait containing entomopathogenic fungus *Beauveria bassiana*. ESA 42nd Annual Meeting, Las Vegas, NV. December 16-21, 1995. (Poster).
- Alves, S. B., J. L. Stimac, R. M. Pereira & S. A. Vieira. Delayed germination of *Beauveria bassiana* conidia after prolonged storage at low temperatures. SIP 28th Annual Meeting, Ithaca, NY. July 16-21, 1995. (Poster).
- Silveira Neto, S., S. B. Alves, R. T. Alves & R. M. Pereira. Ecological mapping of regions in Brazil for the use of *Metarhizium anisopliae*, the principal pathogen of the pasture spittlebugs (Homoptera: Cercopidae). SIP 28th Annual Meeting, Ithaca, NY. July 16-21, 1995. (Poster).
- Broza, M., R. M. Pereira & J. L. Stimac. Resistance of soil Collembola to entomopathogens: can they serve as antagonists or scavengers of excess biopesticide spores? SIP 28th Annual Meeting, Ithaca, NY. July 16-21, 1995.
- Pereira, R. M. Evaluation of fungal pathogens as biological control agents for mole crickets. 15th Annual Meeting of Mole Cricket Researchers, Gainesville, FL. August 17, 1993.
- Pereira, R. M., J. H. Frank & J. P. Parkman. Baits with *Metarhizium anisopliae* and *Beauveria bassiana* for mole crickets. FES 76th Annual Meeting, Captiva Island, FL. August 9-12, 1993.
- Pereira, R. M., J. H. Frank & J. P. Parkman. Evaluation of fungal pathogens as biopesticides for mole crickets. SIP XXVI Annual Meeting, Asheville, NC. August 1-6, 1993.
- Pereira, R. M., J. L. Stimac & S. B. Alves. Evaluation of *Beauveria bassiana* bait formulations for control of fire ants, *Solenopsis invicta*. SIP XXVI Annual Meeting, Asheville, NC. August 1-6, 1993.
- Oi, D. H. & R. M. Pereira. Ant behavior in response to biological control agents. FES 75th Annual Meeting, Stuart, FL. August 10-13, 1992. (Invited).
- Stimac, J. L., R. M. Pereira & D. H. Oi. Development of *Beauveria bassiana* as a microbial control for fire ants. 4th National Conference on Urban Entomology, College Park, MD. February 23-26, 1992. (Poster).
- Pereira, R. M. & J. L. Stimac. Growth of *Beauveria bassiana* in fire ant nest soil with amendments. ESA 38th Annual Meeting, Reno, NV. December 8-11, 1991.(Poster).

- Oi, D. H., R. M. Pereira & J. L. Stimac. Field evaluation of *Beauveria bassiana* for control of red imported fire ants, *Solenopsis invicta*. ESA 38th Annual Meeting, Reno, NV. December 8-11, 1991.
- Pereira, R. M. Trials of entomopathogenic fungi against mole crickets. 13th Annual Meeting of the Mole Cricket Researchers, Gainesville, FL. August 13, 1991.
- Oi, D. H., R. M. Pereira, L. A. Wood & J. L. Stimac. Field application of *Beauveria bassiana* to red imported fire ant nests. FES 74th Annual Meeting, Naples, FL. August 4-7, 1991.
- Pereira, R. M. & J. L. Stimac. Transmission of *Beauveria bassiana* within artificial fire ant nests in the laboratory. SIP XXIV Annual Meeting, Flagstaff, AZ. August 4-9, 1991.
- Fernandes, P. M., S. B. Alves & R. M. Pereira. Microbial control of *Cornitermes cumulans* with *Beauveria bassiana* and *Metarhizium anisopliae*. SIP XXIV Annual Meeting, Flagstaff, AZ. August 4-9, 1991.
- Pereira, R. M. & J. L. Stimac. *Beauveria bassiana* against fire ants, *Solenopsis invicta*, under various bioassay conditions. ESA 37th Annual Meeting, New Orleans, LA. December 2-6, 1990. (Poster) (Honorable Mention in Student Competition).
- Pereira, R. M. & J. L. Stimac. Effect of *Beauveria bassiana* applied to sterile and nonsterile soil against *Solenopsis invicta*. ESA 36th Annual Meeting, San Antonio, TX. December 10-14, 1989.
- Alves, S. B., R. M. Pereira & M. T. V. Camargo. Effects of extracts from *Solenopsis* spp. and *Diatraea saccharalis* on the fungi *Beauveria bassiana* and *Metarhizium anisopliae*. SIP XXII Annual Meeting, College Park, MD. August 20-24, 1989.
- Pereira, R. M. & S. B. Alves. Combination of the fungus *Beauveria bassiana* and the fungicide dodine in the control of the fire ants (*Solenopsis invicta*). SIP XXII Annual Meeting, College Park, MD. August 20-24, 1989.
- Stimac, J. L., S. B. Alves, R. M. Pereira & L. A. Wood. Effects of *Beauveria bassiana* on imported fire ant (*Solenopsis invicta*) in buckets of soil. SIP XXII Annual Meeting, College Park, MD. August 20-24, 1989.
- Pereira, R. M., S. W. Avery & A. H. Undeen. Laboratory and field tests of *Helicosporidium* sp. against larvae of *Culex salinarius* (Diptera: Culicidae). SIP XXI Annual Meeting, San Diego, CA. August 14-18, 1988.
- Pereira, R. M., S. W. Avery & A. H. Undeen. Laboratory and field tests of *Helicosporidium* sp. against larvae of *Culex salinarius* (Diptera: Culicidae). FES 71st Annual Meeting, Clearwater Beach, FL. August 2-5, 1988.
- Coler, R. R. & R. M. Pereira. *Solenopsis invicta* and *Beauveria bassiana*, an inquiry into the infectivity of ingested conidia. FES 71st Annual Meeting, Clearwater Beach, FL. August 2-5, 1988.
- Pereira, R. M. & D. W. Roberts. Dry mycelium preparations of the entomogenous fungi, *Metarhizium anisopliae* and *Beauveria bassiana*. SIP XX Annual Meeting, Gainesville, FL. July 20-24, 1987.

Participation in Professional Societies and Groups

Regional Project S-1024 Discovery of Entomopathogens and Their Integration and Safety in Pest Management Systems. (Previously Projects S-301, S-265, S-214, S-130).

- Member-at-Large of Technical Committee, 2000-2002.
- Secretary, 2002-2004.
- Chair, 2004-2006.

2000 Imported Fire Ant Conference, Chattanooga, TN. April 5-7, 2000.

- Co-Organizer.

Entomological Society of America, 1985-Present.

Subsection Ce

- Secretary - 2002-2003.
- Vice-Chair - 2003-2004.
- Chair - 2004-2005.

- International Affairs Committee, 1998-2001.
- Southeastern Branch Student Awards Committee, 1999-2001.
- Judge for Student Display Presentations - Sections C, 1997 Meeting.
- Judge for Student Presentations - Subsections Cb, Cc & Ce, 1998 Meeting.
- Moderator for Student Presentations - 1999, 2002, 2003 Meetings.

Society for Invertebrate Pathology, 1985-Present.

- Chair, Membership Committee, 2002-2003.
- Moderator for Mycology Symposium - Fungal Genes and Biotechnology, 1999 Meeting.
- Judge for Student Presentations -Fungi, 1997 Meeting.
- Moderator for Contributed Papers - Fungi, 1995 Meeting.
- Microbial Control Division, 1987-Present.
- Member-at-Large of the Division Executive Board, 1997-1999.

Tennessee Entomological Society, 1997-2001.

- Member-at-Large of the Executive Board, 1998-1999.
- Auditing Committee, 1997-1998, 1999-2000
- Publication/Editorial Committee, 1997-2000.

Florida Entomological Society, 1987-Present.

Sociedade Entomologica do Brasil, 1995-Present.

USDA-ARS Workshop on Critical Issues in Biological Control, Feb. 2004.

Editorial and Peer Review Activites

Scientia Agricola - Journal of the University of Sao Paulo, Campus "Luiz de Queiroz", Piracicaba, Brazil.

- Associate Editor, 1999-2004.

Peer reviews of manuscripts and proposals (1997-Present):

- Anais da Sociedade Entomologica Brasileira
- Annals of Applied Biology
- BioControl
- Biological Control
- Biocontrol Science and Technology
- EMBRAPA - Brazilian Agricultural Research Service
- EPA - Environmental Protection Agency
- Environmental Entomology
- Florida Entomologist
- Journal of Agricultural Entomology
- Journal of Chemical Ecology
- Journal of Economic Entomology
- Journal of Entomological Science
- Journal of Invertebrate Pathology
- Journal of Medical Entomology
- Journal of Nematology
- Lincoln University- College of Natural Sciences, Mathematics and Technology
- Mycology
- Mycopathology
- National Science Foundation
- Neotropical Entomology
- Scientia Agricola
- Southeast Naturalist
- USDA - ARS
- USDA - NRICG
- USDA - SBIR
- USDC- NIST- Advanced Technology Program

Honors

- USDA-ARS Technology Transfer Award - USDA-ARS 2006.
- Honorable Mention for Excellence in Technology Transfer - Federal Laboratory Consortium Southeast Region 2006
- Achievement Award for Team Research - Florida Entomological Society 2005.
- Quality Step Increase - USDA-ARS, CMAVE. January 2004.
- Certificate of Appreciation - USDA-ARS, CMAVE. February 2003. (Cash Award).
- SPOT Awards - USDA-ARS, CMAVE. April 2002, May 2002, March 2005. (Cash Awards).
- Honorable Mention - Student Poster competition at the 37th Annual Meeting of the Entomological Society of America.
- Scholarship (stipend, tuition and fees) for Ph.D. degree at University of Florida. Conselho Nacional de Pesquisa e Tecnologia (CNPq), Brazil.
- Scholarship (stipend, tuition and fees) for M.S. degree at Cornell University. Supported by the Bean/Cowpea Collaborative Research Support Program - USAID. Project: Insect Pathogens in Cowpea Pest Management for Developing Nations.
- Classified as 10th among 155 in graduating class. Escola Superior de Agricultura "Luiz de Queiroz", Universidade de Sao Paulo, Brazil.
- International Exchange Student - Senior year at Turlock High School, California. AFS - International Scholarships, New York, NY.

Language Skills

- Portuguese - native language, read, write, understand, speak fluently
- English - read, write, understand, speak fluently
- Spanish - read, understand
- French - limited reading and understanding

Service to Institutions and the Community

Public Committees

- TAP - Federal Interagency Committee on Invasive Terrestrial Animals and Pathogens, 2004-present.
- Imported Fire Ant Subcommittee of Tennessee State Plant Health Committee, 1998-2001.
- Biological Control Steering Committee, USDA - APHIS - PPQ and TDA, 1999-2001.

University of Tennessee

Landscape IPM Advisory Group, UTIA, 1998-2001.

Univ. Tennessee - Coll. Agric. Sci. & Nat. Resources Computer Literacy Committee, 1998-2001.

Univ. Tennessee - Dept. Entomol. & Plant Pathol.

Seminar Committee, 1998-2000.

Chair, 1999-2000.

Computer Committee, 1998-2000.

Chair, 1999-2000.

Space Committee, 1998-2000.

Chair, 1999-2000.

Graduate Committee, 1998-2001.

Greenhouse Committee, 1998-2001.

Chair, 2000-2001.

Awards Committee, 1998-2000.

Student Development Committee, 1999-2001.