

Publications under Project W-2186 from 2008 to 2013

Reported 2008-2009

Journal Articles

Brito J.A, R. Kaur, R. Cetintas, J.D. Stanley, M.L. Mendes, E.J. Mcavoy, T.O. Powers, and D.W. Dickson. 2008. Identification and isozyme characterisation of *Meloidogyne* spp. infecting horticultural and agronomic crops, and weed plants in Florida. *Nematology* 10:757-766.

Donald, P.A., Patananan, A., Cerna, C.S., Simmons, T., Castro, N., Wilgar, J.L., and Goheen, S.C. 2008. Protein SDS-PAGE characterization and comparison of soybean cyst nematodes. *Nematropica* 38:137-144.

Hafez, S.L. and P. Sundararaj. 2008. Efficacy of chemical nematicides on *Heterodera schachtii* management. *International Journal of Nematology*. 18: 2, 207-210.

Hafez, S.L. and P. Sundararaj. 2008. Combination treatment of nematicides for the management of *Meloidogyne chitwoodi* in potato. *International Journal of Nematology*. 18: 2, 211-215.

Leger, C., and E. Riga. 2008. Evaluation of marigolds and entomopathogenic nematodes for control of the cabbage maggot, *Delia radicum*. *Journal of Sustainable Agriculture* 33: 128-141.

Masler, E.P., P.A. Donald, and S. Sardanelli. 2008. Stability of *Heterodera glycines* (Tylenchida:Heteroderidae) juvenile hatching from eggs obtained from different sources of soybean, *Glycine max*. *Nematology* 10:271-278.

Melakeberhan, H. 2008. Nutrient use efficiency and precision management of nematodes-Concepts and possibilities. *Nematologia Brasileira* 32:1-12.

Melakeberhan, H., and M.F. Avendano. 2008. Spatio-temporal consideration of soil conditions and site-specific management of nematodes. *Precision Agriculture* 9: 341-354.

Melakeberhan. H., S. Mennan, M. Ngouajio, and T. Dudek. 2008. Effect of *Meloidogyne hapla* on multi-purpose use of oilseed radish (*Raphanus sativus*). *Nematology* 10: 375-379.

Mendoza , R.B., T.G. Franti, J.W. Doran, T. Powers, and C.W. Zanner. 2008. Tillage effects on soil quality indicators and nematode abundance in Loessial soil under long-term no-till production. *Communications in Soil Science and Plant Analysis*, 39:2169-2190.

Ou, Z., L. Murray, S.H. Thomas, J. Schroeder, and J. Libbin. 2008. Nutsedge counts predict *Meloidogyne incognita* juvenile counts in an integrated management system. Journal of Nematology 40:99-108.

Riga, E., L.A. Lacey, and N. Guerra. 2008. *Muscodor albus* a potential biocontrol agent against plant parasitic nematodes of economically important vegetable crops in Washington State. Biological Control 45:380-385.

Riga, E., L.D. Porter, H. Mojtabahi, and D. Erickson. 2008. *Pratylenchus neglectus*, *Pratylenchus thornei*, and *Paratylenchus hamatus*, nematodes causing yield reduction to dryland peas and lentils in Idaho. Plant Disease: 92:979.

Roberts, P. A., W.C. Matthews, J.D. Ehlers, and D. Helms. 2008. Genetic determinants of differential resistance to root-knot nematode reproduction and galling in Lima bean. Crop Science 48:553-561.

Starr, J.L., S.R. Koenning, T.L. Kirkpatrick, A.F. Robinson, P.A. Roberts, and R.L. Nichols. 2008. The future of nematode management in cotton. Journal of Nematology 39:283-294.

Wang, C., M. Ulloa, and P.A. Roberts. 2008. A transgressive segregation factor (*RKN2*) in *Gossypium barbadense* for nematode resistance clusters with gene *rkn1* in *G. hirsutum*. Molecular Genetics and Genomics 279:41-52.

Zasada, I., M.F. Avendano, Li, Y. C., T. Logan, H. Melakeberhan., S.R. Koenning, and G. L. Tylka. 2008. Potential of alkaline-stabilized biosolid to manage nematodes: Case studies on soybean cyst and root-knot nematodes. Plant Disease 92:4-13.

Book Chapters

Peat, S.M., B.C. Hyman, B.D. Adams. 2009 Phylogenetics and population genetics of entomophilic nematodes. Pages 166-192. In: Molecular approaches and techniques for the study of insect pathogens. Stock, P., N. Boemare, I. Glazer, and J. Vanderberg (eds). CABI International Press. Cambridge, MA. 417 pp.

Riga, E. 2008. My dream of the future of nematology chemical communication research - 50 years from now. Pages 295-296. In: An Anecdotal History of Nematology. Webster, J.M., K.B. Eriksson, and D.G. McNamara (ed). Pensoft Publishers, Sofia, Bulgaria, 299 pp.

International Conference Proceedings

Donald, P.A., D.D. Tyler, and I. Abdi. 2008. Effects of selected rhizosphere microorganisms and carbon on soybean cyst nematode population density and reproduction in different tillage regimes. Fifth International Congress of Nematology, Brisbane, Australia. 256.

Faghihi, J., V. Ferris, P. Donald, G. Noel, and T. Welacky. 2008. Changes in resistance of PI 88.788 to field populations of soybean cyst nematode (SCN). Fifth International Congress of Nematology, Brisbane, Australia. 235.

Hafez, S.L and P. Sundararaj. 2008. Efficacy of fumigant and non-fumigant nematicides for the management of *Meloidogyne chitwoodi* in Idaho potatoes. Fifth International Congress of Nematology, Brisbane, Australia. 251

Hafez, S.L and P. Sundararaj. 2008. Cropping systems for sustainable management of sugar beet cyst nematode, *Heterodera schachtii*. Fifth International Congress of Nematology, Brisbane, Australia. 22.

Hafez, S.L., P. Sundararaj and S.J. Turner. 2008. An Update on the new discovery of *Globodera pallida* in USA. Presented at the Fifth International Congress of Nematology, Brisbane, Australia. 171.

Hafez, S.L., P. Sundararaj and S.J. Turner. 2008. Incursion management of potato cyst nematode and restoration of pest area freedom. Fifth International Congress of Nematology, Brisbane, Australia. 73.

Ingham R.E. and N.M. Wade. 2008. Destroying *Meloidogyne chitwoodi* in potato before processing. Fifth International Congress of Nematology, Brisbane, Australia. 204-5.

Melakeberhan. H. 2008. Roles for nematology in understanding renewable energy needs and balancing food and socio-economic interests. Fifth International Congress of Nematology, Brisbane Australia. 117.

Melakeberhan. H., A. Kravchenko, and M. Ngouajio. 2008. Strategies for enhancing brassicas' multipurpose attributes in managing nematode parasitism complexities. Third International Biofumigation Symposium, Canberra, Australia. 37.

Pang, W., S.L Hafez, and P. Sundararaj. 2008. Yield loss potential of *Pratylenchus penetrans* and *Meloidogyne* spp. on onion. Fifth International Congress of Nematology, Brisbane, Australia. 252.

Powers, T.O. 2008. Metagenomics, big science, and the reformation of nematology. Fifth International Congress of Nematology, Brisbane, Australia. 2.

Powers, T.O. 2008. The application of molecular diagnostics in the U.S. Cooperative agricultural pest survey program. Fifth International Congress of Nematology, Brisbane, Australia. 98.

Schroeder, J., S. Thomas, L. Murray, C. Fiore, J. Trojan, and J. Libbin. 2008. Challenges for integrated *Cyperus rotundus* and *C. esculentus* management in irrigated systems infested with *Meloidogyne incognita*. Fifth International Weed Science Congress. Vancouver, Canada. 5.

Thomas, S.H., J. Schroeder, L. Murray, J. Trojan, C. Fiore, and J. Libbin. 2008. Development of a management strategy for the *Meloidogyne incognita/Cyperus rotundus/C. esculentus* pest complex. Fifth International Congress of Nematology, Brisbane, Australia. 319.

National Conference Proceedings

Ebler, J. L., J. Libbin, J. Schroeder, S. H. Thomas, and L. Murray. 2008. Economics of crop rotation for integrated management in chile pepper. Proceedings Western Society of Weed Science. 61:8

Riga, E., Henderson, D., Snyder, W., and R. Ramirez. 2008. Antagonism between biofumigation and biocontrol in the soil. American Pythopathological Society, Minneapolis. Phytopathology 98:S132.

Yin, H., E. Caswell-Chen, and G.Y. Yuen. 2008. Isolation and comparison of new *Lysobacter enzymogenes* strains for biological control traits. American Pythopathological Society, Minneapolis. Phytopathology 98:S178.

Extension Publications

Allen, F.L., Johnson, R., Williams, R.C. Jr, McClure, A.T., Newman, M., Donald, P. Soybean Variety Performance Tests in Tennessee.
<http://varietytrials.tennessee.edu/pdffiles/2008trialdata/soybeanvariety.pdf>. 2008. Research Report 09-03 University of Tennessee Institute of Agriculture. (Technical Bulletin).

Navarre, R., E. Riga, R. Boydston, and H. Mojtahedi. 2008. Potato cyst nematode. Potato Progress Research and Extension for Washington's Potato Industry. May issue. VIII (7):1-3.

Newman, M.A., and Donald, P. Soybean Disease and Nematode Ratings and Yields 2008 Test Summaries. UT Extension. 14 pp. 2008. (Technical Bulletin).

Riga, E., K. Eastwell, J. Crosslin and R. Larsen. 2008. Rapid detection of tobacco rattle virus in viruliferous stubby root nematodes, *Paratrichodorus allius*. Potato Progress Research and Extension for Washington's Potato Industry June issue. VIII (8):3.

Riga, E., and L. Lacey. 2008. The biofumigant potential of *Muscador albus* against plant parasitic nematodes of economically important vegetable crops in Washington State. WSU Vegetable Pathology Team Newsletter. June issue.

Reported 2009-2010

Journal Articles

Das, S., D. A. DeMason, J. D. Ehlers, T. J. Close, and P.A. Roberts. 2008. Histological characterization of root-knot nematode resistance in cowpea and its relation to reactive oxygen species modulation. *Journal of Experimental Botany* 59: 1305-1313.

Das, S., P. R. Bhat, C. Sudhakar, J. D. Ehlers, S. Wanamaker, P. A. Roberts, X. Cui, and T. J. Close. 2008. Detection and validation of single feature polymorphisms in cowpea (*Vigna unguiculata* L. Walp) using a soybean genome array. *BMC Genomics* 9:107, pages 1-12.

Donald, P.A , D.O. Tyler, and Boykin, D. 2009. Short and long-term tillage effects on *Heterodera glycines* reproduction in soybean monoculture in west Tennessee. *Soil and Tillage Research* 104:126-133.

Donald, P.A, Patananan, A , Cerna, C.S., Simmons, I., Castro, N., Wilgar, J.L., and Goheen, S.C. 2008. Protein SDS-PAGE characterization and comparison of soybean cyst nematodes. *Nematropica* 38:137-144.

Ehlers, J. D., B.L. Sanden, C.A. Frate, A.E. Hall, and P.A. Roberts. 2009. Registration of 'California Blackeye 50' Cowpea. *Journal of Crop Registrations* 3:236-240.

Garland, S. , Goheen, S., Donald, P.A, Campbell, J. 2009. Application of derivatization gas chromatography/mass spectrometry for the identification and quantitation of pinitol in plant roots. *Analytical Letters* 42:2096-2105.

Melakeberhan, B., A. Kravchenko, J. Dahl, and D. Warncke. 2010. Effects of soil types and *Meloidogyne hapla* on the multi-purpose uses of arugula (*Eruca sativa*). *Nematology* 12: 115-120

Muchero, W., N.N. Diop, P.R. Bhat, R.D. Fenton, S. Wanamaker, M. Pottorff, S. Hearne, N. Cisse, C. Fatokun, J.D. Ehlers, P.A. Roberts, and T.J. Close. 2009. A consensus genetic map of cowpea [*Vigna unguiculata* (L) Walp.] and synteny based on EST-derived SNPs. *Proceedings of the National Academy of Sciences, USA* 106: 18159-18164.

Muchero, W., J.D. Ehlers, T.J. Close, and P.A. Roberts. 2009. Mapping QTL for drought stress induced premature senescence and maturity in cowpea (*Vigna unguiculata* (L.) Walp). *Theoretical and Applied Genetics* 118:849-863.

Muchero, W., J.D. Ehlers, and P.A. Roberts. 2009. Restriction fragment length polymorphism based candidate gene mapping for seedling drought tolerance in cowpea (*Vigna unguiculata* L. Walp.). *Theoretical and Applied Genetics* (Oct. 2009 online at DOI 10.1007/s00122-009-1171-6).

Niblack, T. L., Tylka, G. L., Arelli, P., Bond, J., Diers, B., Donald, P., Faghihi, J., Ferris, V.R , Gallo, K., Heinz, RD., Lopez-Nicora, H., Von Qualen, R , Welacky, T., and Wilcox, J . 2009. A standard greenhouse method for assessing soybean cyst nematode resistance in soybean: SCE08 (Standardized Cyst Evaluation 2008). Online. Plant Health Progress doi: 1 0.1 094/PHP-2009-0513-01-RV.

Roberts, P. A., and M. Ulloa. 2009. Introgression of root-knot nematode resistance into tetraploid cottons. *Crop Science* 50:940-951.

Schroeder, J., C. Fiore, S. H. Thomas, L. W. Murray, and I. A. Ray. 2009. Root-knot nematode resistant alfalfa suppresses subsequent crop damage from the nutsedge-nematode pest complex. *Agronomy Journal* 101:754-763.

Subbotin, S., Ragsdale, E. Mullens, T.R., Roberts, P.A., Mundo-Ocampo, M., and J.G. Baldwin. 2008. A phylogenetic framework for root-lesion nematodes of the genus *Pratylenchus* (Nematoda): evidence from 18S and 02-03 expansion segments of 28S ribosomal RNA genes and morphological characters. *Molecular Phylogenetics and Evolution* 48:491-505.

Ulloa, M., C. Wang, and P.A. Roberts. 2009. Gene action analysis by inheritance and QTL mapping of resistance to root-knot nematodes in cotton. *Plant Breeding* 129:541-550.

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Williamson, V. M., and P. A. Roberts. 2009. Mechanisms and genetics of resistance. Pp. 301-325 in: Perry, R. N., Moens, M., and Starr, J. L. (eds). *Root-Knot Nematodes*. CABI: Wallingford, UK. 480 pp.

International Conference Proceedings

Melakeberhan, H. 2009. Managing nematode parasitic variability: case studies of soybean cyst nematode and root-knot nematodes. 19th Symposium of the Nematological Society of Southern Africa Proceedings. 25.

Abstracts

Aoki, S., C. Nagai, and B. Sipes. 2009. Evaluation of *Coffea arabica* L. accessions from Ethiopia for resistance to the Kona coffee root-knot nematodes, *Meloidogyne konaensis*. *Journal of Nematology* 41:130.

Donald, P.A and Hewlett, I.E. 2009. *Pasteuria nishizawae* studies in Tennessee. Journal of Nematology 41:325.

Faghihi, J., Donald, P., Welacky, T., Noel, G., and Ferris, V. 2009. Geographic differences in field populations of soybean cyst nematode (SCN). Journal of Nematology 41:327

McCarson, J. Schroeder, C. Fiore, S. H. Thomas, I. M. Trojan, S. Sanogo, L. Liess, and L. W. Murray. 2009. Interactions of: *Ipomoea purpurea*, *Anoda cristata*, *Physalis wrightii* and *Capsicum annuum* with *Meloidogyne incognita* and *Verticillium dahliae*. Proceedings Western Society of Weed Science. 62:224

Niblack, T. L., Tylka, G. L. , Arelli, P., Bond, J., Diers, B., Donald, P., Faghihi, J., Ferris, V.R , Gallo, K. , Heinz, RD., Lopez-Nicora, H., Von Qualen, R, Welacky, I., and Wilcox, J. 2009. A standard greenhouse method for assessing soybean cyst nematode resistance in soybean: SCE08 (Standardized Cyst Evaluation 2008). Journal of Nematology 41:364

Sipes, B., M. Berry, R. Manshardt, and S. Ferreira. 2009. Response of *Carica papaya* to *Meloidogyne javanica* in the greenhouse. Journal of Nematology 41:143.

Sawadogo, A., B. Thio, S. Kiemde, I. Drabo, C. Oabire, J. Ouedraogo, T. R. Mullens, J.D. Ehlers, and P.A. Roberts. 2009. Distribution and prevalence of parasitic nematodes of cowpea (*Vigna unguiculata*) in Burkina Faso. Journal of Nematology 41:120-127.

Thomas, S. R, I. M. Trojan, I. Schroeder, C. Fiore, S. Sanogo, L. Liess, and L. W. Murray. 2009. Interactions among *Meloidogyne incognita*, annual weeds, and *Verticillium dahliae*: Implications for enhancement of pathogen and weed populations in chile pepper production. Journal of Nematology 41:366.

Trojan, J. M., S. H. Thomas, J. Schroeder, L. W. Murray, and N. Schmidt. 2009. Soil nematode community structure in an alfalfa, chile and cotton crop sequence. Journal of Nematology 41:390.

Schroeder, J., S. H. Thomas, L. Murray, C. Fiore, J. Trojan, and J. Libbin. 2009. Purple nutsedge (*Cyperus rotundus*) and yellow nutsedge (*C. esculentus*) management in irrigated systems infested with southern root-knot nematode (*Meloidogyne incognita*). Weed Science Society of America Abstracts 49:220

Other

Allen, F.L., Johnson, R , Williams, R.e. Jr, McClure. A.T., Newman, M., Donald, P. Soybean Variety Performance Tests in Tennessee.
<http://varietytrials.tennessee.edu/pdffiles/2008Irialdata> /soybeanvariety.pdf . 2008. Research Report 09-03 University of Tennessee Institute of Agriculture. (Technical Bulletin).

Aoki, S.. 2009. Resistance of Semi-wild *Coffea arabica* L. from Ethiopia to the Kona Coffee Root-Knot Nematode, *Meloidogyne konaensis*. MS Thesis. University of Hawaii. Honolulu, HI. Pp. 44.

Melakeberhan, H. 2009. Fertilizer use efficiency model for managing nematodes and plant, soil and environmental health. ASA-CSSA-SSSA 2009 (cd).

Reported 2010- 2011

Journal Articles

Agbicodo, E.M., C. Fatokun, R. Bandyopadhyay, K. Wydra, N.N. Diop, W. Muchero, J.D. Ehlers, P.A. Roberts, T.J. Close, R.G. Visser, C.G. van der Linden. 2010. Identification of markers associated with bacterial blight resistance loci in cowpea [*Vigna unguiculata* (L.) Walp.]. *Euphytica* 175:215-226.

Bernard, E.C., Handoo,Z.A., Powers, T.O., Donald, P.A., Heinz, R.D. 2010. *Vittatidera zeaphila* (Nematoda:Heteroderidae), a new genus and species of cyst nematode parasitic on corn (*Zea mays*). *Journal of Nematology* 42:139-150.

Cabos, R.Y.M., B.S. Sipes, C. Nagai, M. Serracin and D.P. Schmitt. 2010. Evaluation of coffee genotypes for root-knot nematode resistance. *Nematropica* 40:191-202.

Das, S., J.D. Ehlers, T.J. Close, and P.A. Roberts. 2010. Transcriptional profiling of root-knot nematode induced feeding sites in cowpea (*Vigna unguiculata*L. Walp.) using a soybean genome array. *BMC Genomics*11: 480, p.1-16.

Donald, P.A., and Tyler, D.D., 2010. Effects of tillage on the interaction of soybean rhizosphere organisms. *Journal of Nematology* 42:240

Hafez, S.L., P. Sundararaj and Z. Handoo. 2010. Occurrence and distribution of nematodes in Idaho crops. *International Journal of Nematology*. 20: 59-66.

Hafez, S.L. and P. Sundararaj. 2010. Chemical and nonchemical strategies for the management of *Meloidogyne chitwoodi* on potato in Idaho, USA. *International Journal of Nematology*. 20: 85-90.

Muchero, W., J.D. Ehlers, and P.A. Roberts. 2010. QTL analysis for resistance to foliar damage caused by *Thrips tabaci* and *Frankliniella schultzei* (Thysanoptera: Thripidae) feeding in cowpea. *Molecular Breeding* 25:47-56.

International Conference Proceedings

Schroeder, J. S.H. Thomas, L. Murray, C. Fiore, and J. Trojan. 2010. Challenges for integrated *Cyperus rotundus*, *C. esculentus*, and *Meloidogyne incognita* management in irrigated pepper production systems. 2010 International Pepper Conference Proceedings. 30.

National Conference Proceedings

Donald, P.A., Allen, P.B., Sistani, K., Tyler, D.D., and Tewolde, H. 2010. Effect of poultry litter on *Heterodera glycines* reproduction. Proceedings of the American Phytopathological Society. Charlotte, NC.

Robbins, R.T., P. Chen, L. E. Jackson, E. E. Gbur, D. G. Dombek, E. Shipe, P. Arelli, G. Shannon, and C. Overstreet. 2010. Reniform Nematode Reproduction on Soybean Cultivars and Breeding lines in 2009. New Orleans, LA 2010. Proceedings of the Beltwide Cotton Conferences Pgs. 190-199.

Abstracts

Thomas, S.H., J.M. Trojan, J. Schroeder, C. Fiore, S. Sanogo, L. Liess, N. Schmidt and L.W. Murray. 2010. Suitability of annual weeds as hosts of *Meloidogyne incognita* is unaffected by co-infection with *Verticillium dahliae*. Journal of Nematology 42:273.

Other

Allen, F.L., Johnson, R., Williams, R.C., Jr, McClure, A.T., Newman, M., Donald, P. Soybean Variety Performance Tests in Tennessee.
http://varietytrials.tennessee.edu/pdffiles/2009trialdata/soybean_final.pdf. 2009. Research Report 10-03. University of Tennessee Institute of Agriculture (Technical Bulletin).

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http://varietytrials.tennessee.edu/pdffiles/2009trialdata/soybean_final.pdf

Ehlers, J., P. Roberts, and B. Sanden. 2010. Blackeye Varietal Improvement. p. 16-24. In University of California Dry Bean Research 2009 Progress Report, California Dry Bean Advisory Board, Dinuba, CA.

Faghihi, J., Donald, P. A., Noel, G., Welacky, T. W., and Ferris, V. R. 2010. Soybean resistance to field populations of *Heterodera glycines* in selected geographic areas. Online. Plant Health Progress doi:10.1094/PHP-2010-0426-01-RS.

Uchanski, M.E., S. H. Thomas, and S.J. Walker. 2010. Evaluation of chloropicrin soil fumigants for management of soil-borne pathogens in chile, 2009. Plant Disease Management Reports 4:V148.doi:10.1094/PDRM04.V148.

Reported 2011-2012

Journal Articles

Cabos, R.Y.M., B.S. Sipes, C. Nagai, M. Serracin and D.P. Schmitt. 2010. Evaluation of coffee genotypes for root-knot nematode resistance. *Nematropica* 40:191-202.

Doshi, R. A., R.L. King and G.W. Lawrence. 2010. Classification of *Rotylenchulus reniformis* numbers in cotton using remotely sensed hyperspectral data on self-organized maps. *Journal of Nematology* 42:179-193

Lucas, M. R., N. N. Diop, S. Wanamaker, J. D. Ehlers, P. A. Roberts, and T. J. Close. 2011. Cowpea–Soybean Synteny Clarified through an Improved Genetic Map. *The Plant Genome* 4:1-11.

Melakeberhan, H., Douches, D. and Wang, W. (2012). Interactions of selected potato cultivars and populations of *Meloidogyne hapla* adapted to the US Midwest soils. *Crop Science*. 52:1-6.

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Melakeberhan, H. and Wang, W. (2012). Proof-of-concept for managing *Meloidogyne hapla* parasitic variability in carrot production soils. *Nematology*. 14:623-629.

Muchero, W., J.D. Ehlers, T.J. Close, and P.A. Roberts. 2011. Genic SNP markers and legume synteny reveal candidate genes underlying QTL for *Macrophomina phaseolina* resistance and maturity in cowpea [*Vigna unguiculata* (L.) Walp.]. *BMC Genomics* 12(8):1-14.

Skantar, A.M., Handoo, Z.A., Carta, L.K., Zasada, I. A., Ingham, R.E., Chitwood, D.J. 2011. Morphological and molecular characterization of *Globodera* populations from Oregon and Idaho. *Phytopathology*. 101:(4)480-491.

Starr, J. L, E. R. Moresco, C. W. Smith, R. L. Nichols, P. A. Roberts and P. Chee. 2011. Inheritance of resistance to *Meloidogyne incognita* in primitive cotton accessions from Mexico. *Journal of Nematology* 42 (2010):352-358.

Subbotin, S. A., R. N. Inserra, M. Marais, P. Mullin, T. O. Powers, P. A. Roberts, E. Van Den Berg, G. W. Yeates and J. G. Baldwin. 2011 Diversity and phylogenetic relationships within the spiral nematodes of *Helicotylenchus* Steiner, 1945 (Tylenchida: Hoplolaimidae) as inferred from analysis of the D2-D3 expansion segments of 28S rRNA gene sequences. *Nematology* 13(3):333-345.

Book Chapters

Campbell, J.A., Goheen, S.C. and Donald, P. 2011. Extraction and Analysis of Inositol and Other Carbohydrates from Soybean Plant Tissues. Pages 421 – 446. in Recent Trends for Enhancing the Diversity and Quality of Soybean Products, D. Krezhova ed. InTech publisher <http://www.intechopen.com/articles/show/title/extraction-and-analysis-of-inositol-and-other-carbohydrates-from-soybean-plant-tissues>

Lawrence, K. S. and G. W. Lawrence. 2009. Chapter 14: Pest Management: Nematodes. In Conservation Tillage Systems: Production, Profitability and Stewardship. eds Bergtold, J. , Raper, R. , Hawkins, G., and Iversen, K. CRC Press LLC.

Klink V.P., P.D. Matsye, and G.W. Lawrence. 2010. Cell-specific studies of soybean resistance to its major pathogen, the soybean cyst nematode as revealed by laser capture micro-dissection, gene pathway analyses and functional studies. Soybean. Intech Publishers. Pp 1-32.

Klink V.P., P.D. Matsye, and G.W. Lawrence. 2010. Developmental genomics of the resistant reaction of soybean to the soybean cyst nematode. Modern Concepts in Functional Genomics. Plant Tissue Culture and Applied Plant Biotechnology Chapter 10: pages 249-270.

National Conference Proceedings

Bennett, R.S., A.L. Bell, J.E. Woodward, K.S. Lawrence, C.S. Rothrock, T.L. Kirkpatrick, G.W. Lawrence, P.D. Colyer, and R.M. Davis. 2011. Report progress on a contemporary survey of the Fusarium wilt fungus in the United States. Proceedings of the National Beltwide Cotton Conference, Vol. 1, National cotton Council, Memphis TN. Online: www.cotton.org/beltwide/proceedings.

Fiore, C. J. Schroeder, S. Thomas, L. Murray, J. Trojan, S. and N.E. Schmidt. 2011. Comparison of weed production and germinability in the annual weeds *Anoda cristata*, *Ipomoea purpurea*, and *Physalis wrightii* with and without *Meloidogyne incognita* inoculation. Proceedings, Western Society of Weed Science. 64:48.

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Lawrence, K.S., G.W. Lawrence and S.R. Moore. 2011. New nematicide potentials in cotton in the southeast and mid south. Proceedings of the National Beltwide Cotton Conference, Vol. 1, National cotton Council, Memphis TN. Online: www.cotton.org/beltwide/proceedings.

Murray, L , S.H. Thomas, J. Schroeder, S. Kreider, Z. Du, J.M. Trojan and C. Fiore. 2011. Modeling the root-knot nematode/nutsedge pest complex: perspectives from weed

science, nematology and statistics. Proceedings of the 2011 Conference of Applied Statistics in Agriculture. Pgs. 128-151.

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