

Published manuscripts, other than abstracts, produced by scientists at the South Central Agricultural Research Laboratory since 1986. Arranged alphabetically by topic: Biofuel, Ethnobotany, Entomology, Food Science, Forage grasses, Genetics, Ion analysis, Kenaf, Melons, Organic, Plant Pathology, Plant Physiology, Post-harvest, Seeds, Soil Gasses, Tissue Analysis, and Vegetables

Current to: 1 January 2010

Publications are classified as appearing in a: Refereed journal, or in Other types of publications, such as Proceedings, Book chapters, Trade Journals, or Patents

Names in bold indicate that the author is, or was, a federal employee assigned to the South Central Agricultural Research Laboratory at the time of publication

BIOFUEL

Other types of publications:

1. **Russo, V.M. and Bruton, B.** 2008. Planting dates for multiple cropping of biofuel feedstock and specialty crops. Proceedings Oklahoma-Arkansas Horticultural Industries Show 27:226-229. (Proceedings).
2. Bhardwaj, H.L., Mohamed, A.I., **Webber, C.L., III**, and Lovell, G.R. 1996. Evaluation of Castor Germplasm for Agronomic and Oil Characteristics. Progress, p. 342-346. In: Janick, J. and Simon, J.E. (eds.). New Crops. John Wiley & Sons, Inc. New York, N.Y. (Book Chapter).
3. **Fish, W.W., Bruton, B.D., Russo, V.M.** 2009. Watermelon juice: A promising feedstock supplement, diluent, and nitrogen supplement for ethanol biofuel production. Biotechnology for Biofuels. 2. doi:10.1186/1754-6834-2-18.
4. **Russo, V.M., Bruton, B.D.** and Sams, C.E. 2009. Classification of temperature effects on germination of Brassicas. Industrial Crops and Products 31:48-51 doi:10.1016/j.indcrop.2009.08.007 2010.

ETHNOBOTANY

Other types of publications:

1. **Davis, A.R.** Christmas in October? The story of one *Ibervillea lindheimeri* plant. Cucurbit Network News. 10:2-3. 2003. (Trade journal)
2. **Davis, A.R.** and O'Reilly, R.G., Jr. Caribbean Coralfruit. Cucurbit Network News. 12 (1):1-2. 2005. (Trade journal)
3. **Davis, A.R.**, O'Reilly, R.G. and Lazell, J. The elusive American melonleaf. Cucurbit Network News 12 (2):1-2. 2005. (Trade journal)

ENTOMOLOGY

Refereed journals:

1. Raulston, J.R., Summy, K.R., Loera, J., **Pair, S.D.**, and Sparks, A.N. 1990. Population dynamics of corn earworm larvae (Lepidoptera: Noctuidae) on corn in the Lower Rio Grande Valley. *Environ. Entomol.* 19:274-280.
2. Wolf, W.W., Westbrook, J.K., Raulston, J.R., **Pair, S.D.**, and Hobbs, S.E. 1990. Recent airborne radar observations of migrant pests in the United States. *Phil. Trans. R. Soc. Lond. B* 328:619-630.
3. Gross, H.R. and **Pair, S.D.** 1991. Seasonal distribution, response to host developmental stage, and screened-cage performance of *Archytas marmoratus* (Diptera: Tachinidae) and *Ophion flavidus* (Hymenoptera: Ichneumonidae) on *Spodoptera frugiperda* (Lepidoptera: Noctuidae). *Florida Entomol.* 74:237-245.
4. Mitchell, E.R., McNeil, J.N., Westbrook, J.K., Silvain, J.F., Lalanne-Cassou, B., Chalfant, R.B., **Pair, S.D.**, Wadill, V.H., Sotomayor-Rios, A., and Proshold, F.I. 1991. Seasonal periodicity of fall armyworm, (Lepidoptera: Noctuidae) in the Caribbean Basin and northward to Canada. *J. Entomol. Sci.* 26:39-50.
5. **Pair, S.D.**, Raulston, J.R., Westbrook, J.K., Wolf, W.W. and Adams, S.D. 1991. Fall armyworm (Lepidoptera: Noctuidae) outbreak originating in the Lower Rio Grande Valley, 1989. *Florida Entomol.* 74:200-213.
6. Chandler, L.D., **Pair, S.D.**, and Raulston, J.R. 1992. RH-5992, a new insect growth regulator active against corn earworm and fall armyworm (Lepidoptera: Noctuidae). *J. Econ. Entomol.* 85:1099-1103.
7. Chandler, L.D., **Pair, S.D.**, and Raulston, J.R. 1992. Effects of selected insect growth regulators on longevity and mortality of corn earworm and fall armyworm (Lepidoptera: Noctuidae) Larvae. *J. Econ. Entomol.* 85:1972-1978.
8. Raulston, J.R., **Pair, S.D.**, Loera, J. and Cabanillas, H.E. 1992. Prepupal and pupal parasitism of *Helicoverpa zea* and *Spodoptera frugiperda* (Lepidoptera: Noctuidae) by *Steinernema* sp. in cornfields in the Lower Rio Grande Valley. *J. Econ. Entomol.* 85:1666-1670.
9. Raulston, J.R., **Pair, S.D.**, Loera, J., Sparks, A.N., Wolf, W.W., Westbrook, J.K., Fitt, G.P. and Rogers, C.E. 1992. *Helicoverpa zea* (Lepidoptera: Noctuidae) pupa production in fruiting corn in northeast Mexico and south Texas. *Environ. Entomol.* 21:1393-1397.
10. Westbrook, J.K., Sparks, A.N., Wolf, W.W., **Pair, S.D.**, and Raulston, J.R. 1992. A model for long-distance dispersal, pp. 171-183. In: J.L. Goodenough and J.M. Mckinion (Eds.), *Basics of Insect Modeling*. Publisher, ASAE, St. Joseph, MI. 221 p.
11. Korman, A. K., Mallet, J., Goodenough, J.B., Graves, J.B., Hayes, J.L., Hendricks, D.E., Luttrell, R., **Pair, S.D.**, and Wall, Marvin. 1993. Population structure in *Heliothis virescens*: (Lepidoptera: Noctuidae) an estimate of gene flow. *Ann. Entomol. Soc. Am.* 86:182-188.
12. Carpenter, J.E., **Pair, S.D.**, and Fitt, G.P. 1994. *Ichneumon promissorius* (Hymenoptera Ichneumonidae): Development on North American hosts. *J. Econ. Entomol.* 87:929-932.
13. **Collins, J.K.**, **Perkins-Veazie, P.M.**, Maness, N., and Cartwright, B. Resistance in muskmelon cultivars to melon aphid. *HortScience.* 20:1367. 1994.

14. **Pair, S.D.** 1994. Japanese honeysuckle (Caprifoliaceae): Newly discovered host of *Heliothis virescens* and *Heliothis zea* (Lepidoptera: Noctuidae). Environ. Entomol. 23:906-911. 1994.
15. Raulston, J.R., **Pair, S.D.**, Loera, J., and Cabanillas, H.E. 1994. Paratissimo de *Helicoverpa zea* y *Spodoptera frugiperda* por una especie nueva de *Steinernema* (Rhabdita: Steinernematidae). Vedula 1:25.
16. **Pair, S.D.** 1995. Biology and rearing of *Diapetimorpha Introita* (Cresson) (Hymenoptera: Ichneumonidae) on host and non-host noctuid pupae. J. Entomol. Sci. 30:468-480.
17. **Pair, S.D.**, Raulston, J.R., Sparks, A.N., Westbrook, J.K., Wolf, W.W., and Goodenough, J.L. 1995. A Prospectus: Impact of *Helicoverpa zea* (Boddie) production from corn in the lower Rio Grande Valley on regional cropping systems. In: J.E. Slosser (Ed.), Noctuids: Recent Advances in Detection and Migration in the U.S. Southwest Entomol. Supplement No. 18:155-167.
18. **Pair, S.D.** and Westbrook, J.K. 1995. Agro-ecological and climatological factors potentially influencing fall armyworm population and their movement in the southeastern United States. In: J.E. Slosser (Ed.), Noctuids: Recent Advances in Detection and Migration in the U.S. Southwest Entomol. Supplement No. 18:101-118.
19. Raulston, J.R., Westbrook, J.K., Loera, J., **Pair, S.D.**, **Lingren, P.D.**, and Rummel, D.R. 1995. Temporal occurrence of corn earworm, *Helicoverpa zea* (Boddie) (Lepidoptera: Noctuidae) populations in the Lower Rio Grande Valley, Uvalde, and Lubbock, Texas, pp. 81-100. In: J.E. Slosser (Ed.), Noctuids: Recent Advances in Detection and Migration in the U.S. Southwest Entomol. Supplement No. 18.
20. Westbrook, J.K., Wolf, W.W., **Pair, S.D.**, Raulston, J.R., Eyster, R., and **Lingren, P.D.** 1995. Field observations and simulations of atmospheric transport of noctuids from northeastern Mexico and South-Central U.S. In: J.E. Slosser (Ed.), Noctuids: Recent Advances in Detection and Migration in the U.S. Southwest Entomol. Supplement No. 18:25-44.
21. Wolf, W.W., Westbrook, J.K., **Pair, S.D.**, Raulston, J.R., and **Lingren, P.D.** 1995. Observations of migratory flight orientation of noctuids arising from a corn growing region in the Lower Grande and its effects on downwind dispersal. In: J.E. Slosser (Ed.), Noctuids: Recent Advances in Detection and Migration in the U.S. Southwest Entomol. Supplement No. 18:45-63.
22. Schlotzhauer, W.S., **Pair, S.D.**, and Horvat, R.J. 1996. Volatile constituents from the flowers of Japanese Honeysuckle (*Lonicera japonica*). J. Agric. Food Chem. 44:206-209.
23. **Pair, S.D.** 1997. Evaluation of systemically treated squash trap-plants and attracticidal baits for early season control of striped and spotted cucumber beetle (Coleoptera: Chrysomelidae) and squash bug (Hemiptera: Coreidae) in cucurbit crops. J. Econ. Entomol. 90: 1307-1314.
24. Raulston, J.R., **Pair, S.D.**, **Lingren, P.D.**, Hendrix, W.D., III, and Shaver, T.N. 1998. The role of population dynamics in the development of control strategies for adult *Heliothis zea* (Lepidoptera: Noctuidae) and other moths of the family Noctuidae, pp. 25-36. In: D.L. Bull (Ed.), Potential for Development of Adult Control Technology of Noctuid Pests with Plant Attractants. Southwestern Entomol. Supplement No. 21.
25. Bextine, B., Wayadande, A., **Bruton, B.D.**, **Pair, S.D.**, Mitchell, F., and Fletcher, J. 2001. Effect of insect exclusion on the occurrence of yellow vine disease and of the associated bacterium in squash. Plant Disease. 85:875-878.

26. Bextine, B., Waydande, A., **Bruton, B.D., Pair, S.D.**, Mitchell, F., and Fletcher, J. 2003. Artificial feeding system for the squash bug, *Anasa tristis* (De Geer) (Heteroptera: Coreidae). *Southwestern Entomologist*. 28:63-67.
27. **Bruton, B.D.**, Mitchell, F., Fletcher, J., **Pair, S.D.**, Wayadande, A., Melcher, U., Brady, J., Bextine, B. and Popham, T.H. 2003. *Serratia marcescens*, a phloem-colonizing, squash bug - transmitted bacterium, is the causal agent of cucurbit yellow vine disease. *Plant Disease* 87:937-944.
28. Rascoe, J., Berg, M. , Melcher, U., Mitchell, F., **Bruton, B.D., Pair, S.D.** and Fletcher, J. 2003. Identification, phylogenetic analysis and biological characterization of *Serratia marcescens* strains causing cucurbit yellow vine disease. *Phytopathology* 93:1233-1239.
29. Zhang, Q., Weyant, R., Melcher, U., **Bruton, B.D., Pair, S.D.**, Mitchell, F. and Fletcher, J. 2003. Genotyping of *Serratia marcescens* strains associated with cucurbit yellow vine disease. *Phytopathology* 93:1240-1246.

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1. **Pair, S.D.**, Westbrook, J.K., Raulston, J.R., Wolf, W.W., and Adams, S.D. 1990. Seasonal occurrence of weather patterns potentially influencing the migration of soybean looper in the southeastern United States. pp. 10-18. Proc. Soybean Looper Resistance Workshop, March 29, 1990, Orange Beach, AL. (Proceedings)
2. Westbrook, J.K., **Pair, S.D.**, Wolf, W.W., Raulston, J.R., and Adams, S.D. 1990. Atmospheric effects on the spring migration of agronomic moth species from northeastern Mexico and the south-central USA. p. 19. Proc. 12th Int. Cong. Biometeor. August 26-September 1, 1990. (Proceedings)
3. Westbrook, J.K., Wolf, W.W., Adams, S.D., Rogers, C.E., **Pair, S.D.**, and Raulston, J.R. 1991. Observations and analyses of atmospheric transport of noctuids from northeastern Mexico and south-central Texas. pp. 100-108. Preprints of the Amer. Meteorol. Soc. 10th Conf. on Biometeorol. and Aerobios. (Proceedings)
4. **Pair, S.D., Bruton, B.D.**, Cartwright, B., and Duthie, J.A. 1993. Status of search for insect vectors of yellow vine in cucurbits. Proc. 12th Annual. Okla. Hort. Ind. Conf. pp. 149-151. (Proceedings)
5. Cartwright, B., McKenzie, C.L., Miller, M.E., **Perkins-Veazie, P.**, and Edelson, J.V. 1994. Enhancement of purple blotch disease of onion by thrips injury, pp. 203-208. In: Parker, B.L., Skinner, M. and Lewis, T. (eds.) *Thysanoptera: Toward Understanding Thrips Management*. Plenum Press, New York. (Book Chapter)
6. **Pair, S.D.** 1994. Potential early-season control strategies for cucumber beetle and squash bug in cucurbits. Proc. 13th Okla. Hort Ind. Conf. pp. 119-123. (Proceedings)
7. Wolf, W.W., Westbrook, J.K., Raulston, J.R., **Pair, S.D.** and **Lingren, P.D.** 1994. Radar detection of ascent of *Helicoverpa zea* adults from maize in the Lower Rio Grande Valley, pp. 1065-1074. In: Proc. 13th Int. Congr. Aerobiol. September 12-18, 1993 Calgary, Canada.
8. **Bruton, B.D., Pair, S.D.**, and **Wann, E.V.** 1995. Yellow vine disease of watermelon and

- cantaloupe in central Texas and Oklahoma, pp. 239. In: Cucurbitaceae '94'. J. Dunlap and G.E. Lester (Eds.), Gateway Pub. Co., Edinburg, TX.
9. **Perkins-Veazie, P.M., Collins, J.K.,** Maness, N., and Cartwright, B. 1995. Melon aphid tolerance is not deleterious to muskmelon quality, pp. 43-47. In Ait-Oubahou, A., and El-Otmani, M. (eds.). Postharvest Physiology, Pathology and Technologies for Horticultural Commodities: Recent Advances, Agadir, Morocco. (Book Chapter)
 10. **Pair, S.D.** 1996. Squash bug, pp. 71. In: T.A. Zitter, D.L. Hopkins, and C.E. Thomas (Eds.), Compendium of Cucurbit Diseases. American Phytopathological Society, St. Paul, MN. (Book Chapter)
 11. **Pair, S.D.** 1996. Potential of a Parasitic Nematode for control of Pecan Weevil and Hickory Shuckworm, pp. 43-50. In: M.W. Smith (Ed.), Proceedings 66th Oklahoma Pecan Growers Annual Meeting, June 30 - July 2, 1996, Grandlake, OK. (Proceedings)
 12. **Pair, S.D.** and R.J. Horvat. 1997. Volatiles of Japanese honeysuckle flowers as attractants for adult lepidopteran insects. U.S. Patent No. 5, 665, 344.
 13. **Pair, S.D.,** Shrefler, J., and Motes, J. 1997. Utilizing trap crops for insect suppression in watermelon. pp. 239-242. Proc. 16th Ann. Hort. Ind. Conf., B.D. McCraw, (Ed.), Oklahoma State University, Stillwater, 276 p. (Proceedings)
 14. Raulston, J.R., **Pair, S.D.,** and Cabanillas, E. 1997. *Steinernema* Sp. Nematode for suppression of *Helicoverpa* Zea and *Spodoptera Frugiperda*. U.S. Patent No. 5,674,516.
 15. **Pair, S.D.** and **Bruton, B.D.** 1998. Relationship of watermelon genotype and ploidy to incidence of yellow vine disease, pp. 248-251. In: J. McCreight (Ed.), Cucurbitaceae '98. ASHS Press, Alexandria, VA.
 16. **Pair, S.D., Bruton, B.D.,** Mitchell, F., and Fletcher, J. 1998. Advances in yellow vine disease research. pp. 287-290. Proc. 17th Ann. Hort. Ind. Conf., B.D. McCraw, (Ed.), Oklahoma State University, Stillwater, 295 p. (Proceedings)
 17. Bost, S.C., Mitchell, F. Melcher, U., **Pair, S.D.,** Fletcher, J., Wayadande, A., and **Bruton, B.D.** 1999. Yellow vine of watermelon and pumpkin in Tennessee. Plant Dis. 83:587.
 18. Raulston, J.R., **Pair, S.D.,** and Cabanillas, E. 1999. *Steinernema* Sp. Nematode for suppression of *Helicoverpa* zea and *Spodoptera frugiperda*. U.S. Patent No. 5,932,237.
 19. **Davis, A.R.** and **Pair, S.D.** 2000. Potential for genetic improvement of watermelon cultivars, pp. 141-143. In: J. Motes, (Ed.), Proc. 19th Ann. Hort. Ind. Conf., Oklahoma State University, Stillwater, 287 p. (Proceedings)
 20. **Pair, S.D., Bruton, B.D.,** Mitchell, F., and Fletcher, J. 2000. Yellow vine management. pp. 145-148. In: J. Motes, (Ed.), Proc. 19th Ann. Hort. Ind. Conf., Oklahoma State University, Stillwater, 287 p. (Proceedings)
 21. **Pair, S.D.** and R.J. Horvat. 2001. Volatiles of Japanese honeysuckle flowers as attractants for adult lepidopteran insects. U.S. Patent No. 6,190,652 B1.

22. Raulston, J.R., **Pair, S.D.**, and Cabanillas, E. 2001. *Steinernema* Sp. Nematode for suppression of *Helicoverpa zea* and *Spodoptera frugiperda*. U.S. Patent No. 6,184,434.
23. **Pair, S.D.**, **Bruton, B.D.**, Mitchell, F., Fletcher, J. Wayadande, A., Melcher, U. and **Davis, A.** 2003. Cucurbit yellow vine disease: A threat to the cucurbit industry? pp. 41-44. In: W.T. Kelley, (Ed.), Proc. 2003 Southeastern Regional Veg. Conf., Savannah, A. (Proceedings)

FOOD SCIENCE

Refereed journals:

1. **Collins, J.K.**, **Bruton, B.D.**, and **Perkins-Veazie, P.M.** 1990. Organoleptic evaluation of shrink-wrapped muskmelon. HortScience. 25:1409-1412.
2. Biles, C.L., **Bruton, B.D.**, **Russo, V.**, and Wall, M.M. 1997. Characterization of β -galactosidase of ripening peppers. J. Food and Agric 75:237-243.
3. Biles, C.L., **Bruton, B.D.**, and **Zhang, J.** 1997. Fruit ripening: Why does fruit soften and rot. Bios 68:112-115.
4. **Perkins-Veazie, P.** and **Collins, J.K.** Identification of strawberry germplasm with high sucrose fruit. Adv. Strawberry Research. 16:19-21. 1997.
5. **Perkins-Veazie, P.** and **Collins, J.K.** Contribution of nonvolatile phytochemicals to nutrition and flavor. HortTechnology. 11(4):539-546. 2001.
6. **Perkins-Veazie, P.**, **Collins, J.K.**, **Pair, S.**, and Roberts, W. Lycopene content differs among red-fleshed watermelon cultivars. J. Sci. Food Agric. 81:983-987. 2001.
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8. **Davis, A.R.**, **Fish, W.W.**, and **Perkins-Veazie, P.** A rapid hexane-free method for analyzing lycopene content in watermelon. J. Food Sci. 68:328-332. 2003.
9. **Davis, A.R.**, **Fish, W.W.**, and **Perkins-Veazie, P.** A rapid spectrophotometric method for analyzing lycopene content in tomato and tomato products. Posthar. Biol. Technol. 28:425-430. 2003.
10. Edwards, A.J., Vinyard, B., Wiley, E., Brown, E., **Collins, J.K.**, **Perkins-Veazie, P.**, Baker, R.A., and Clevidence, B.A. Consumption of watermelon juice increases plasma concentrations of lycopene and B-carotene in humans J. Nutr. 133(4):1043-50. 2003.
11. **Fish, W.W.** and **Davis, A.R.** The effects of frozen storage conditions on lycopene stability in watermelon tissue. J. Agric. Food Chem. 51; 3582-3585. 2003.
12. Leskovar, D.I., Bang, H.J., Koleda, K., Franco, J.A., and **Perkins-Veazie, P.** Deficit irrigation influences yield and lycopene content of diploid and triploid watermelon. Acta Hort. 628:169-

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13. **Perkins-Veazie, P., Collins, J.K.**, Edwards, A., Wiley, E., and Clevidence, B. Watermelon: Rich in the antioxidant lycopene. *Acta Hort.* 628:663-668. 2003.
14. **Collins, J.**, Arjmandi, B., Claypool, P., **Perkins-Veazie, P.**, Baker, R., and Clevidence, B. Lycopene from two food sources does not affect antioxidant or cholesterol status of middle-aged adults. *Nutr. J.* 15(1):1-7. 2004.
15. **Fish, W.W.** and **Davis, A.R.** The purification, physical/chemical characterization, and cDNA sequence of cantaloupe fruit polygalacturonase-inhibiting protein. *Phytopathology* 94; 337-344. 2004.
16. Leskovar, D., Bang, H., Crosby, K., Maness, N., Franco, A., and **Perkins-Veazie, P.** Lycopene, carbohydrates, ascorbic acid and yield components of diploid and triploid watermelon cultivars are affected by limited irrigation. *J. Hortic. Sci. Biotech.* 79:75-81. 2004.
17. Rimando, A. and **Perkins-Veazie, P.** Determination of citrulline in watermelon rind. *J. Chromatography A.* 1078:196-200. 2005.
18. Tadmor, Y., King, S., Levi, A., **Davis, A.**, Meir, A., Wasserman, B., Hirschberg, J. and Lewinsohn, E. Comparative fruit colouration in watermelon and tomato. *Food Res. Intl.* 38:837-841. 2005.
19. **Collins, J.K., Davis, A.R.**, Adams, A., Maness, N. and **Perkins-Veazie, P.** Consumer acceptability of low sugar watermelon sweetened with non-calorie sweetener by a Native American community. *Intl. J. Food Sci. Nutr.* 57:363-368. 2006.
20. **Collins, J.K.** and **Perkins-Veazie, P.** Lycopene: From plants to humans. *HortScience.* 41:1135-1144. 2006.
21. **Perkins-Veazie, P., Collins, J. K., Davis, A.R.** and Warren, R. Carotenoid content of watermelon cultivars. *J. Agr. Food Chem.* 54:2593-2597. 2006.
22. **Collins, J.K.**, Wu, G., **Perkins-Veazie, P.**, Spears, K., Claypool, P.L., Baker, R.A., and Clevidence, B.A. Watermelon consumption increases plasma arginine concentrations in adults. *Nutrition.* 23:261-266. 2007.
23. **Davis, A.R., Collins, J., Fish, W.W.**, Tadmor, Y., **Webber, C.L., III** and **Perkins-Veazie, P.** Rapid method for total carotenoid detection in canary yellow-fleshed watermelon. *J. Food Sci.* 72:S319-S323. 2007.
24. **Davis, A.R., Webber, C.L., III,** and **Perkins-Veazie, P.** Impact of cultivar and production practices on yield and phytonutrient content of organically grown watermelon. *J. Vegetable Sci.* 12:83-91. 2007.

25. **Fish, W.W.** Novel procedure for the extraction and concentration of carotenoid-containing chromoplasts from selected plant systems. *J. Agric. Food Chem.* 55:1486-1490. 2007.
26. **Perkins-Veazie, P.** Carotenoids in watermelon and mango. *Acta Hort.* 746:259-264, 2007.
27. **Perkins-Veazie, P., Collins, J.K.,** Clevidence, B., and Wu, G. Watermelons and health. *Acta Hort.* 731:121-127. 2007.
28. **Perkins-Veazie, P.,** Roberts, W., and **Collins, J.K.** Lycopene content among organically produced tomatoes. *J. Veget. Sci.* 12:93-106. 2007.
29. Wu, G., **Collins, J.K., Perkins-Veazie, P.M.,** Siddiq, M., Dolan, K.D., Kelly, K.A., Heaps, C.L., and Meininger, C.J. Dietary supplementation with watermelon pomace juice enhances arginine availability and ameliorates the metabolic syndrome in Zucker diabetic fatty rats. *Nutrition.* 137:2680-2685. 2007.
30. Stringer, S.J., **Perkins-Veazie, P.M.,** and Marshall, D.A. 2009. Nutraceutical compound concentrations of Muscadine (*Vitis rotundifolia* Michx) Grape cultivars and breeding lines. *Acta Horticulturae* 841:553-556.

Other types of publications:

1. **Perkins-Veazie, P.M., Collins, J.K., Wann,** and Maness, N. Flavor qualities of minimally processed supersweet corn. *Proc. Fla. State Hort. Soc.* 107:302-305. 1994. (Proceedings)
2. **Collins, J.K.** and **Perkins-Veazie, P.** Lycopene, an antioxidant for human health, varies with watermelon cultivar. *Proc. 19th Annual Oklahoma-Arkansas Hort. Industries Conf.* 134-136. 2000. (Proceedings)
3. Maness, N. and **Perkins-Veazie, P.** Carbohydrates and texture. pp. 361-382. In Brecht, J.K., and Bartz, J. (eds.). *Postharvest Physiology of Vegetable Crops*, 2nd Edition, Marcel Dekker, New York. 2001. (Book Chapter)
4. **Perkins-Veazie, P.** Lycopene, watermelons, and health. *Proc. 20th Annual Oklahoma-Arkansas Hort. Industries Conf.* 91-93. 2001. (Proceedings)
5. **Davis, A.R., Fish, W.W.,** and **Perkins-Veazie, P.** Reflectance colorimetry does not effectively estimate lycopene content in watermelon. *Cucurbitaceae.* p. 414-420. 2002. (Proceedings)
6. **Perkins-Veazie, P.,** and **Collins, J.K.** Watermelon: Lycopene content changes with ripeness stage, germplasm, and storage. *Cucurbitaceae.* p. 427-430. 2002. (Proceedings)
7. **Perkins-Veazie, P.,** Maness, N., and Roduner, R. Composition of orange, yellow, and red-fleshed watermelons. *Cucurbitaceae.* p. 436-440. 2002. (Proceedings).
8. Shen, Z., Roberts, W., Duthie, J., Edelson, J., and **Perkins-Veazie, P.** Lycopene development in

- watermelons. Proc. 21st Annual Oklahoma-Arkansas Hort. Industries Conf. p. 162-164. 2002. (Proceedings)
9. Maness, N., McGlynn, W., Scott, D., and **Perkins-Veazie, P.** Alternative uses for watermelons: Progress towards on-farm lycopene production. Proc. 22nd Annual Oklahoma-Arkansas Hort. Industries Conf. 77-80. 2003. (Proceedings)
 10. Maynard, D.N. and **Perkins-Veazie, P.** Triploid mini watermelon cultigen evaluation, Spring, 2004. Proc. Florida Gulf Coast Research Extension Center. <http://grec.ifas.ufl.edu/wtermelon%20variety%20webpage/Minimelon%20SP04/> 2004. (Web publication)
 11. **Perkins-Veazie, P.** Marketing for health: Human wellness compounds in fruits and vegetables. Proc. Missouri State Fruit Vegetable Conf. p. 12-14. 2004. (Proceedings)
 12. **Perkins-Veazie, P.** Blackberry research in Arkansas and Oklahoma. North American Blackberry Growers Association Newsletter. 2005. (Newsletter)
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 14. **Perkins-Veazie, P., Collins, J.K., Davis, A.R.,** Maness, N., and Roberts, W. Watermelon carotenoid content in response to germplasm, maturity, and storage. Cucurbitaceae. p. 597-602, 2006. (Proceedings)
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PLANT PHYSIOLOGY

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2. **Russo, V.M.** Protein content in tissues of near iso-genic shrunken2 sweet maize *Cereal Research Communications* 30:209-216. 2002.
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POST-HARVEST

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