

# **ROBERT N. TRIGIANO**

## Curriculum Vita

### **BUSINESS ADDRESS**

Dept. of Entomology & Plant Pathology  
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### **EDUCATION**

Ph.D. North Carolina State University – May 1983. Dual Major: Plant Pathology and Botany

M.S. The Pennsylvania State University – Dec. 1977. Major: Biology (Botany/Mycology)

B.S. Juniata College (Huntingdon, PA) – May 1975. Major: Biology, Minor: Chemistry

### **EMPLOYMENT / ACADEMIC EXPERIENCE**

2014 – present Owner of Scientific Writing Experts, (DBA), Knoxville, Tennessee

2005 – present Chief Manager, Creative Agricultural Technologies, LLC, Knoxville, Tennessee

2015- University of Tennessee Institute of Agriculture Institute Professor

1997 – 2015 Professor (Associate Head 2008; Interim Head 2012-13), Department of Entomology and Plant Pathology, University of Tennessee. Honorary Visiting Professor, Guizhou University, Guiyang, China (2011-17), and Northeast Forestry University, Harbin, China (2014-17).

1997 – 2001 Professor and Interim Head (1999 - 2001), Department of Ornamental Horticulture and Landscape Design, University of Tennessee.

Adjunct Professor, Department of Botany, University of Tennessee.

Adjunct Professor, Department of Plant, Soil, and Animal Science, Alabama A&M University, Normal, AL.

- 1991 – 1997 Associate Professor, Department of Ornamental Horticulture and Landscape Design, University of Tennessee.  
Adjunct Assistant Professor, Dept. of Botany, University of Tennessee.
- 1987 - 1991 Assistant Professor, Department of Ornamental Horticulture and Landscape Design, University of Tennessee.
- 1986 - 1987 Research Assistant Professor, Department of Plant and Soil Science, University of Tennessee.
- 1984 - 1986 Postdoctoral Research Associate, Department of Plant and Soil Science, University of Tennessee.
- 1979 – 1980 Mushroom Grower, Rol-Land Farms, Ltd., Blenheim, Ontario, Canada.
- 1977 – 1979 Associate Research Agronomist, Green Giant Co., Le Sueur, MN.

### **Current Editorial Assignments**

Co-Editor-in-Chief, Critical Reviews in Plant Sciences, CRC Press. 2003-present. 2014-2015 Impact Factor **5.442**.

Consulting Editor, CRC Press, Boca Raton, FL. 2007 – present.

Editorial Board – Horticultural Research. 2013- present.

### **Completed Editorial Assignments**

Editorial Board – Journal of the American Society for Horticultural Science. 2007-2014.

Co- Editor, Green Times. Tennessee Nursery and Landscape Association. 2006-2010.

Senior Editor, Plant Disease. The American Phytopathological Society. 2007 –2009.

Senior Editor, ASHS Press. 1998-2001.

Senior Editor, Plant Cell Reports. 1997-1999.

Associate Editor, Plant Cell Tissue and Organ Culture. 1994-1997.

Associate Editor, Journals of the American Society for Horticultural Science. 1990-1993.

**JOURNAL ARTICLES (\* indicates postdoctoral associate, research associate, or graduate student supervised by R. N. Trigiano or is corresponding author)**

Lipi, P. M. T. Mmbaga, G. Meru, G. Zhang, L. Mackasmiel, X. Wang, P. Wadl and R. N. Trigiano. Genetic mapping of resistance to powdery mildew in *Cornus florida*. (in review).

Brosnan J. T., G. K. Breeden, J.J. Vargas, R. N. Trigiano, S. L. Boggess, and M. E. Staton. Confirmation and control of annual bluegrass resistant to photosystem II inhibiting herbicides. Intl. Turfgrass Soc. Res. J. (in review).

Reasor, E.H., J.T. Brosnan, R.N. Trigiano, J.E. Elsner, G.M. Henry, and B.M. Schwartz. The genetic and phenotypic variability of hybrid bermudagrasses used on golf course putting greens. *Planta* (in review).

Trigiano, R. N., E.C. Bernard, M.T. Windham, A.S. Windham, T.P. Edwards and S.L. Boggess. 2016. First report of powdery mildew on henbit (*Lamium amplexicaule*) and dead-nettle (*L. purpureum*) caused by *Neovörysisphe galeopsidis* in the southern United States. *Plant Dis.* (in press).

\*Amisshah, J. N., P. A. Wadl, D. Hadziabdic, S. L. Boggess and R. N. Trigiano. 2016. Characterization of thirteen microsatellite loci from the Ghanaian antimalarial plant *Cryptolepis sanguinolenta*. *J. Med. Plant Res.* 10(14):183-187.

Gray, D. J., Z. T. Li, N. L. Grant, D. A., Dean, R.N. Trigiano and S.A. Dhekney. 2016. The application of precision breeding (PB) for crop improvement is fully consistent with the plant life cycle: The utility of PB for grapevine. *Acta. Hort.* DOI:10.17660/Actahortic.1115:49-56.

Trigiano, R.N., A. S. Windham, M. T. Windham and P.A. Wadl. 2016. ‘Appalachian Joy’: A supernumery white-bracted cultivar of *Cornus florida* with powdery mildew resistance. *HortScience* 51(in press).

Gray, D. J., Z. T. Li, N. L. Grant, D. A., Dean, R.N. Trigiano, D.R. Bergey and S.A. Dhekney. 2016. La selection vegetale de precision pour la mise au point de nouveaux cepages. *Revue des Oenologues* No 157 spécial. January 2016.

Trigiano, R. N., E. Bernard, D. Hadziabdic, A. J. Dattilo and P. A. Wadl. 2016. First report of powdery mildew on whorled sunflower (*Helianthus verticillatus*) caused by *Golovinomyces ambrosae*. *Plant Dis.* 100(5):1017.

Moore, P.A., P. A. Wadl, J. A. Skinner, R. N. Trigiano, E. C. Bernard, W. E. Klingeman and A. J. Dattilo. 2016. Review of endangered *Pityopsis ruthii*. *Bull. Torrey Bot.* 143(2): 117-134.

Call A, Sun Y-X, Thomas DT, Pearman PB, Trigiano RN, Carbone I, Xiang Q-Y (2016) Population structure and post-glacial expansion of *Cornus florida* L. (Cornaceae) - integrative evidence from phylogeography, population demographic history, and ecological niche modeling. *J System Evol.* 54(2):136-151. DOI: 10.1111/JSE.12171.

Roberts, D. J., D. J. Werner, P. A. Wadl, and R. N. Trigiano. 2015. Inheritance and allelism of morphological traits in eastern redbud. *Hort. Res.* 2: DOI:10.1038/hortres.2015.49.

\*Dean D., P. A. Wadl, D. Hadziabdic, W.E. Klingeman, B. H. Ownley, T.A. Rinehart, A. J. Dattilo, B. E. Scheffler, and R. N. Trigiano. 2015. Analysis of genetic diversity and population structure for the native tree *Viburnum rufidulum* occurring in Kentucky and Tennessee *J. Amer. Soc. Hort. Sci.* 140(6):523-531.

Hansen, J. A., J. K. Moulton, W. E. Klingeman, J. B. Oliver, M. T. Windham, R. N. Trigiano, and M. E. Reding. 2015. Molecular phylogeny of *Chrysobothris femorata* species group (Coleoptera: Buprestidae) inferred from a mitochondrial and nuclear gene. *Ann. Entomol. Soc. Amer.* DOI:1093/aesa/sav080.

Hatmaker A.E., P. A. Wadl, K. Mantooth, B.E. Scheffler, B. H. Ownley, and Robert N. Trigiano. 2015. Development of microsatellites from *Fothergilla ×intermedia* (Hamamelidaceae) and cross transfer to four genera within the Hamamelidaceae. *Applic. Plant Sci.* DOI: <http://dx.doi.org/10.3732/apps.1400123>

Harris-Shultz K., M. Harrison, P.A. Wadl, R. N. Trigiano, and T. Rinehart. 2015. Development and characterization of microsatellite markers for a Little Bluestem Collection. *J. Amer. Soc. Hort. Sci.* 140(1):78-87.

Hadziabdic, D., P. A. Wadl, M. E. Staton, W. E. Klingeman, J. K. Moulton, J. W. Pscheidt, G. J. Wiggins, J. F. Grant, P. L. Lambdin, M. T. Windham, M. Faccoli, P. Marten, and R. N. Trigiano. 2014. Development of microsatellite loci in *Pityophthorus juglandis*, a vector of thousand cankers disease in *Juglans* spp. *Conserv. Genet. Resour.* 7 (2): 431-433. DOI: 10.1007/s12686-014-0388-0.

\*Bogges, S.L., P. A. Wadl, D. Hadziabdic, B. Scheffler, A.S. Windham, W. E. Klingeman, and R. N. Trigiano. 2014. Characterization of 12 polymorphic microsatellite loci of *Pityopsis graminifolia* var. *latifolia*. *Conservation Genet. Res.* 6(4): 1043-1045. DOI: 10.1007/s12686-014-0282-9

Wadl, P. A., M. T. Windham, R. E. Evans, and R. N. Trigiano. 2014. Three new cultivars of *Cornus kousa*: Empire, Pam's Mountain Bouquet, and Red Steeple. *HortScience* 49(9):1230-1233.

Wadl, P. A. I. Szyb-Borowska, N. Piórecki, S. E. Schlarbaum, B.E. Scheffler, R. N. Trigiano. 2014. Development of microsatellites from *Cornus mas* L. (Cornaceae) and characterization of genetic diversity of cornelian cherries from China, central Europe, and the United States. *Sci. Hort.* 179:314-320.

Trigiano, R.N., T. A. Rinehart, M.E. Dee, P. A. Wadl, L. E. Poplaski and B. H. Ownley. 2014. First report of aerial blight of Ruth's Golden Aster (*Pityopsis ruthii*) caused by *Rhizoctonia solani* in the United States. Plant Dis. 98(6): 855. <http://dx.doi.org/10.1094/PDIS-11-13-1181-PDN>

Chen, Y. X. Chen, F. Hu, H. Yang, L. Yue, R. N. Trigiano, and Z.-M. Cheng. 2014. Micropropagation of *Agave americana*. HortScience 49(3): 320-327.

Wadl, P.A., T. A. Rinehart, A. J. Dattilo, M. Pistrang, L.M. Vito, R. Milstead, and R.N. Trigiano. 2014. Propagation for the conservation of *Pityopsis ruthii*, an endangered species from the southeastern United States. HortScience 49(2):194-200.

Hadziabdic, D., L. M. Vito, M. T. Windham, J. W. Pscheidt, R. N. Trigiano and M. Kolarik. 2014. Genetic differentiation and spatial structure of *Geosmithia morbida*, the causal agent of Thousand Cankers Disease in black walnut (*Juglans nigra*). Curr. Genet. 60(2): 75-87. DOI 10.1007/s00294-013-0414-x.

Wadl, P.A., E. A. Hatmaker, B. Fussi, B. E. Scheffler, and R. N. Trigiano. 2013. Isolation and characterization of microsatellite loci for *Cornus sanguinea* (Cornaceae). Applic. Plant Sci. 1 (9): 1300012

Fajolu, O.L., P. A. Wadl, A. L. Vu, B. H. Ownley, B.E. Scheffler, and R.N. Trigiano. 2013. Microsatellites from *Bipolaris sorokiniana*. Mycologia 105 (5):1164-1173.

Wang, X., P. A. Wadl, A. Wood-Jones, G. Windham, R. N. Trigiano, M. Scruggs, C. Pilgrim, and R. Baird. 2012. Characterization of expressed sequence tag-derived simple sequence repeat markers for *Aspergillus flavus*: emphasis on variability of isolates from the southern United States. Mycopathologia. 174:371-382. DOI 10.1007/s11046-012-9573-4.

Wadl, P.A., R.N. Trigiano, D. J. Werner, M. R. Pooler, and T. A. Rinehart. 2012. Simple sequence repeat markers (SSRs) from *Cercis canadensis* show wide cross-species transfer and utility in genetic studies. J. Amer. Soc. Hort. Sci. 137 (3):189-201.

Porter, J. A., H. Y. Wetzstein, D. Berle, P. A. Wadl, and R. N. Trigiano. 2012. Molecular analysis of the genetic relatedness of georgia plume, a rare, threatened endemic, for the development of conservation strategies. HortScience 47(5): 563-569.

Hansen, J.A., W.E. Klingeman, J.K. Moulton, J.B. Oliver, M.T. Windham, A. Zhang and R.N. Trigiano 2012. Molecular phylogeny of Synanthedonini (Lepidoptera: Sesiidae) using cytochrome oxidase I. Ann. Entomol. Soc. Amer. 105(4): 520-528.

\*Hadzaidbdic, D., X. Wang, P. A. Wadl, T. A. Rinehart, B. H. Ownley and R. N. Trigiano. 2012. Genetic diversity of flowering dogwoods in the Great Smoky Mountains National Park. Tree Gene and Genomes. 8 (4): 855-871. DOI: 10.1007/s11295-012-0471-1.

- Trigiano, R.N., P.A. Wadl, D. Dean, D. Hadziabdic, B.E. Scheffler, F. Runge, S. Telle, M. Thines, J. Ristaino, and O. Spring. 2012. Ten polymorphic microsatellite loci from *Peronospora tabacina*, the cause of blue mold of tobacco. *Mycologia* 104(3): 633-640. DOI:103852/11-288
- Rhoades, P.R., W.E. Klingeman, R.N. Trigiano and J.A. Skinner. 2011. Evaluating pollination biology of *Cornus florida* and *C. kousa* (Cornaceae: Cornales). *J. Kansas Entomological Soc.* 84(4): 285-297.
- \*Hadziabdic D., P. A. Wadl, L.M. Vito, S.L. Boggess, B.E. Scheffler, M.T. Windham, and R. N. Trigiano 2011. Development and characterization of sixteen microsatellite loci for *Geosmithia morbida*, the causal agent of thousand canker disease in black walnut (*Juglans nigra*). *Conservation Genet. Res.* 4 (2): 287-289. DOI: 10.1007/s12686-011-9526-0.
- \*Dean, D., P. A. Wadl, X. Wang, W.E. Klingeman, B. H. Ownley, T. A. Rinehart, B.E. Scheffler, and R. N. Trigiano. 2011. Characterization of eleven novel microsatellite markers from *Viburnum dilatatum*. *HortScience* 46 (11):1456-1459.
- \* Wadl, P. A., A. J. Dattilo, B. E. Scheffler, and R. N. Trigiano. 2011. Development of microsatellite loci for the endangered species *Pityopsis ruthii* (Asteraceae). *Amer. J. Bot.* 98 (12): E342-E345. doi:10.3732/ajb.1100100
- \*Rhoades, P.R., P. A. Wadl, W. E. Klingeman, R. N. Trigiano, J. Skinner. 2011. Using simple sequence repeats (SSRs) to measure pollen flow in a flowering dogwood orchard. *J. Environ. Hort.* 29(4):175-179.
- Trigiano, R.N., A. J. Dattilo, and P. A. Wadl. 2011. First report of powdery mildew on Ruth's Golden Aster (*Pityopsis ruthii*) caused by *Golovinomyces cichoracearum* (*Erysiphe cichoracearum*). *Plant Dis.* 95 (7): 879.
- \*Wadl, P. A., A.J. Dattilo, L.M. Vito, and R. N. Trigiano. 2011. Micropropagation of *Pityopsis ruthii*, an endemic and endangered species. *Plant Cell, Tiss. Org. Cult.* 106: 513-516. DOI 10.1007/s11240-011-9930-x
- \*Wang, X., P. A. Wadl\*, R. Cabrera, B. E. Scheffler, C. Pounders, M. Pooler, T. A. Rinehart, and R. N. Trigiano. 2011. Genetic diversity estimates among crape myrtle (*Lagerstroemia* spp.) cultivars based on simple sequence repeat (SSRs) markers. *J. Amer. Soc. Hort. Sci.* 136(2):116-128.
- \*Wadl, P. A., A. M. Saxton, X. Wang, V. R. Pantalone, T. A. Rinehart, and R. N. Trigiano. 2011. Simple sequence repeat (SSRs) markers associated with red foliage in *Cornus florida* L. *Mol. Breed.* 27:409-416. DOI 10.1007/s11032-011-9551-4
- \*Wadl, P.A., D. Dean, Y. Li, L. M. Vito, B. E. Scheffler, D. Hadziabdic, M. T. Windham, and R. N. Trigiano. 2011. Development and characterization of microsatellites for switchgrass rust

fungus (*Puccinia emaculata*). Conservation Genet. Res. 3:185-188. DOI 10.1007/s12686-010-9320-4

\*Wadl, P.A., X. Wang, V. R. Pantalone and R. N. Trigiano. 2010. Inheritance of red foliage in flowering dogwood (*Cornus florida* L.). Euphytica 176 (1): 99-104. DOI: 10.1007/s10681-010-0219-7.

\*Hadziabdic, D., B.M. Fitzpatrick, X. Wang, P.A. Wadl, T.A. Rinehart, B.H. Ownley, M.T. Windham, and R.N. Trigiano. 2010. Genetic diversity of flowering dogwood natural stands using microsatellites: the effects of dogwood anthracnose. Genetica 138(9-10): 1047-1057. 10.1007/s10709-010-9490-8

\*Wadl, P. A., X. Wang, J. K. Moulton, S. C. Hokanson, J. A. Skinner, T. A. Rinehart, S. M. Reed, V. R. Pantalone, and R. N. Trigiano. 2010. Transfer of *Cornus florida* and *C. kousa* simple sequence repeats (SSRs) to selected *Cornus* (Cornaceae) species. J. Amer. Soc. Hort. Soc. 135 (2): 279-288.

Rinehart, T., R. Trigiano, P. Wadl, D. Johnson, M. Pooler, and B. Scheffler. 2010. Characterization of eight microsatellite DNA markers for the native redbud tree (*Cercis canadensis*). Molec. Ecol. Res. 10: 751-754.

\*Wang X., D. Dean, P. Wadl, D. Hadziabdic, B. Scheffler, T. Rinehart, and R. Trigiano. 2010. Development of microsatellites from crape myrtle (*Lagerstroemia indica* L.). HortScience 45(5): 842-844.

Baird R. E. P. A. Wadl\*, T. A., D. McNeill, X. Wang, T. A. Rinehart, H. K. Abbas, T. Shier, and R.N. Trigiano. 2010. Variability of United States isolates of *Macrophomina phaseolina* based on simple sequence repeats and cross genus transferability to related Botryosphaeraceae genera. Mycopathologia 170 (3): 168-180.

Yuan, J. S., L.L.G. Abercrombie, Y. Cao, M. D. Halfhill, X. Zhou, Y. Peng, J. Hu, M.R. Rao, G. R. Heck, T. J. Larosa, R. D. Sammons, X. Wang, P. Ranjan, D. H. Johnson, P. A. Wadl, B. E. Scheffler, T. A. Rinehart, R.N. Trigiano, C. N. Stewart, Jr. 2010. Functional genomics analysis of *Conyza canadensis* (horseweed) with special reference to the evolution of non-target site glyphosate resistance. Weed Sci. 58 (2): 109-117.

\*Wang, X., L. G. Abercrombie, P. A. Wadl, D. H. Johnson, D. R. Panthee, B. E. Scheffler, T.A. Rinehart, N. R. Stewart, J. S. Yuan, C. N. Stewart and R. N. Trigiano. 2009. Microsatellites from *Conyza canadensis* (Horseweed). Molec. Ecol. Res. 9 (5): 1375-1379.

Kanetis L., X. Wang\*, P.A. Wadl\*, K. Neufeld, G. Holmes, P. S. Ojiambo, M. A. Cubeta, and R. N. Trigiano. 2009. Microsatellite loci from the cucurbit downy mildew pathogen *Pseudoperonospora cubensis*. Molec. Ecol. Res. 9 (6):1460-1466.

\*Li, Y. H., M. T. Windham, R. N. Trigiano, S. Reed, T.A. Rinehart and J. M. Spiers 2009. Assessment of resistance components of bigleaf hydrangeas (*Hydrangea macrophylla*) to

*Erysiphe polygoni in vitro*. Can. J. Plant Pathol. 31:348-355.

\*Li, Y., M. T. Mmbaga, A. S. Windham, M. T. Windham, and R. N. Trigiano. 2009. Powdery mildew of dogwoods: current status and future prospects (feature invited article). Plant Dis. 93(11): 1084-1092.

\*Wadl, P.A., J. A. Skinner, J. R. Dunlap, T.A. Rinehart, S. M. Reed, V. R. Pantalone and R. N. Trigiano. 2009. Breeding intra-specific flowering dogwood (*Cornus florida*) and kousa dogwood (*C. kousa*) hybrids. HortScience 44(6):1527-1533.

\*Li, Y. H., R. N. Trigiano, M. T. Windham, S. Reed, J. M. Spiers and T.A. Rinehart. 2009. Inhibition of urediniospore germination by Bacto agar and changes of germination and germ tube elongation of *Puccinia hemerocallidis* on one gelling agent over time. Can. J. Plant Pathol. 31:163-168.

\*Wang, X., T. A. Rinehart, P.A. Wadl, M.T. Windham, J. M. Spiers, D.H. Johnson, R. N. Trigiano. 2009. A new electrophoresis technique to separate microsatellite alleles. Afr. J. Biotechnol. 8 (11): 2432-2436

\*Baird, R.E., P.A. Wadl, X. Wang, D. Hadziabdic, T.A. Rinehart, H. K. Abbas, T. Shier, and R. N. Trigiano. 2009. Microsatellites from the charcoal rot fungus (*Macrophomina phaseolina*). Molec. Ecol. Res. 9 (3): 946-948. DOI:10.1111/j.1755-0998.2008.02511.x

\*Li, Y. H., R. N. Trigiano, M. T. Windham, S. Reed, J. M. Spiers and T.A. Rinehart. 2009. Bright-field and fluorescence microscopic study of development of *Erysiphe polygonia* on susceptible and resistant bigleaf hydrangea. Plant Dis. 93 (2): 130-134.

\*Wang, X., P. A. Wadl, D. H. Johnson, T. A. Rinehart, B. E. Scheffler, M. T. Windham, J. M. Spiers, and R.N. Trigiano. 2009. A linkage map for flowering dogwood (*Cornus florida* L.) based on microsatellite markers. Euphytica 165:165-175. DOI 10.1007/s10681-008-9802-6.

\*Wadl, P.A., X. Wang, A.N. Trigiano, J.A. Skinner, M.T. Windham, T.A. Rinehart, S.M. Reed, V. R. Pantalone and R N. Trigiano. 2008. Molecular identification key for cultivars and lines of *Cornus florida* and *C. kousa* based on microsatellite loci. J. Amer. Soc. Hort. Sci. 133 (6): 783-793.

\*Bishop, P., J.C. Sorochan, B.H. Ownley, T.J. Samples, A.S. Windham, M.T. Windham, and R.N. Trigiano. 2008. Resistance of *Sclerotinia homoeocarpa* to thiophanate-methyl, iprodione, and propiconazole in Tennessee and northern Mississippi. Crop Sci. 48: 1615-1620.

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Trigiano, R. N., R. A. May, and D. J. Gray. 2001. Advances in tissue culture of *Dendranthema grandiflora* (*Chrysanthemum morifolium*). Pages 81-88 In: Agricultural Biotechnology: a focus on the improvement of plants. M. P. Dallos, ed. ACEVIV, Guadalupe Ltda.

Trigiano, R. N. 2001. Tissue culture of temperate woody legumes. Pages 307-314 In: Agricultural Biotechnology: a focus on the improvement of plants. M. P. Dallos, ed. ACEVIV, Guadalupe Ltda.

Gray, D. J., and R. N. Trigiano. 2000. Introduction to plant tissue culture. Pages 3–10 In: Plant Tissue Culture Concepts and Laboratory Exercises, second edition. R. N. Trigiano and D. J. Gray, eds. CRC Press, Inc. Boca Raton, FL.

Trigiano, R. N. 2000. Isolation of protoplasts from leaves of chrysanthemum and orchardgrass. Pages 277-284 In: Plant Tissue Culture Concepts and Laboratory Exercises, second edition. R. N. Trigiano and D. J. Gray, eds. CRC Press, Inc. Boca Raton, FL.

Trigiano, R. N. 2000. Transformation of chrysanthemum leaf explants using *Agrobacterium tumefaciens*. Pages 321-328 In: Plant Tissue Culture Concepts and Laboratory Exercises, second edition. R. N. Trigiano and D. J. Gray, eds. CRC Press, Inc. Boca Raton, FL.

Trigiano, R. N., and R. A. May. 2000. Direct shoot organogenesis from leaf explants of chrysanthemum. Pages 139-148 In: Plant Tissue Culture Concepts and Laboratory Exercises, second edition. R. N. Trigiano and D. J. Gray, eds. CRC Press, Inc. Boca Raton, FL.

Trigiano, R. N., M. C. Scott, and K. R. Malueg. 2000. Direct somatic embryogenesis from leaves and flower receptacles of cineraria. Pages 223-230 In: Plant Tissue Culture Concepts and Laboratory Exercises, second edition. R. N. Trigiano and D. J. Gray, eds. CRC Press, Inc. Boca Raton, FL.

Trigiano, R. N., L. G. Buckley, and S. A. Merkle. 1999. Somatic embryogenesis in woody legumes. Pages 189-208 In: Somatic Embryogenesis in Woody Plants. S. M. Jain, P. K. Gupta, and R. J. Newton, eds. Kluwer Acad. Pub., Dordrecht, The Netherlands.

Caetano-Anollés, G., and R. N. Trigiano. 1996. Recovery of DNA amplification products from silver stained polyacrylamide gels: applications in nucleic acid fingerprinting and genetic mapping. Pages 11-27. In: Methods in Molecular Biology: PCR Cloning Protocols. B. A. White, ed. Humana Press, Totowa, NJ.

Trigiano, R. N., R. L. Geneve, and L. G. Buckley. 1996. Somatic embryogenesis in eastern redbud (*Cercis canadensis*). Pages 471-482 In: Somatic Embryogenesis in Woody Plants. S. M. Jain, P. K. Gupta, and R. J. Newton, eds. Kluwer Acad. Pub., Dordrecht, The Netherlands.

Conger, B. V., D. J. Gray, and R. N. Trigiano 1995. Somatic embryogenesis in orchardgrass. Pages 70-80 In: Biotechnology in Agriculture and Forestry, Vol 31, Somatic Embryogenesis and Synthetic Seeds II, Y. P. S. Bajaj, ed. Springer-Verlag, NY.

Trigiano, R. N., R. L. Geneve, and G. L. Buckley. 1994. Somatic embryogenesis in eastern redbud (*Cercis canadensis*). Pages 471-482 In: Somatic Embryogenesis in Woody Plants. S. M. Jain, P. K. Gupta, and R. J. Newton, eds. Kluwer Acad. Pub., The Netherlands.

Gray, D. J., R. N. Trigiano, and B. V. Conger. 1992. Liquid suspension culture production of orchardgrass somatic embryos and their potential for the breeding of improved varieties. Pages 351-356. In: Synseeds: Application of Synthetic Seeds to Crop Improvement. K. Redenbaugh, ed. CRC Press, Boca Raton, FL.

Trigiano, R. N., R. L. Geneve, J. E. Preece, and S. A. Merkle. 1992. Tissue and cell cultures of woody legumes. Hort Rev. 14: 265-332.

Trigiano, R. N., R. M. Beaty, and K. W. Lowe. 1992. Micropropagation of dogwoods (*Cornus* spp.). Pages 81-90 In: Biotechnology in Agriculture and Forestry, Vol 20, High-Tech and Micropropagation IV. Y. P. S. Bajaj, ed. Springer-Verlag, NY.

#### **SELCTED GRANTS AND CONTRACTS (SINCE 1996)**

Trigiano, R. N. 2016. Woody plant genomics. USDA/MOA. (1 year). \$335,000.

Hensley, D, P. Wadl and R. N. Trigiano. 2015. *Cornus mas* as a potential specialty food/ornamental in Tennessee. SCBGP. \$45,752. (Two years).

Trigiano, R.N. 2015. Genetics of pistachio rootstock. Wonderful Orchards. \$5,000.

Trigiano, R.N. 2015. Woody plant genomics. USDA/MOA. (1 year). \$ 448,840.

Brosan, J., M.E. Staton, R. N. Trigiano, P.A. Wadl, E. Reasor. 2015. Genotype-by-sequencing of Ultradwarf Bemudagrasses to detect off-types in putting greens. Tennessee AgResearch Innovation Grant. \$25,000. (one year)

Trigiano, R. N. 2014. Woody plant genomics. USDA/MOA 12 months. \$448,840.

Trigiano, R. N. 2014. Intraspecific and interspecific transfer of microsatellite markers from *Pseudoperonospora cubensis* to other downy mildew taxa. UT Graduate School. \$4,990.

Trigiano, R.N. 2013. Woody plant genomics. USDA/MOA(one year). \$230,103.

Hadziabdic D, Windham MT, Trigiano RN, Wadl PA (2013-2015) Developing molecular tools for rapid detection and diagnostic of Thousand Cankers Disease in the native range of black walnut. USFS-FHP: Special Technology Development Program (Received). \$158,991. (3 years).

Hadziabdic D, Windham MT, Lambdin PL, Grant JF, Wiggins GJ, Wadl PA, Trigiano RN (2013-2015) Thousand cankers disease in the Eastern United States: Monitoring, Early Molecular Detection and Distribution. USDA Forest Service - Forest Health Protection Southern Region (Received). \$149,688. (3 years)

Trigiano, R. N. and P. A. Wadl. 2012. Commercialization of Ruth's Golden Aster (*Pityopsis ruthii*). Tennessee AgResearch Innovation Grant \$16,822. 1 year

Wadl, P.A. and R. N. Trigiano. 2012. Assessment of the genetic diversity and population structure of Ruth's Golden Aster (*Pityopsis ruthii*). TDEC, \$55,000, 18 months.

Trigiano, R.N. 2012. Woody plant genomics. USDA/MOA 1 year. \$376,000.

Gray, D.J. . . . R.N. Trigiano. 2011. Disease-resistant seedless muscadine grape cultivars utilizing eco- and consumer-friendly cisgenic modification technologies. Specialty Crops. Research Initiative. \$2,100,000 (\$83,500). 5 years.

Trigiano, R.N. 2011. Woody plant genomics. USDA/MOA 12 months. \$448,597.

Trigiano, R.N. 2011. SSRs for pistachio breeding. 2011. Paramount Farming, 12 months. \$12,000.

Ownley, B.H., R. N. Trigiano, P.A. Wadl and K.D. Gwinn. 2011. Toward disease resistant varieties of switchgrass. Sungrant initiative, Southeastern Regional Center, 24 months. \$44,550.

Windham, M.W., B. H. Ownley, K.D. Gwinn and R. N. Trigiano. 2011. Pathology of switchgrass. CAPS Grant. Approximately \$150,000 for Master Student Education. 5 years.

Lockwood, D., D. Hensley, B. Ownley and R. Trigiano. 2010. Olives and truffles: two potential specialty crops for Tennessee. \$25,000. 3 years.

Trigiano, R. N., P. A. Wadl, and M. T. Windham. 2010. Development and characterization of microsatellite markers for *Puccinia emaculata*, a rust of switchgrass. Sungrant initiative, Southeastern Regional Center 6 months. \$10,000.

Trigiano, R.N. 2010. Woody plant genomics. USDA/MOA 12 months. \$464,520.

Wadl, P.A. and R. N. Trigiano. 2009. Tissue culture of Ruth's Golden Aster. TVA 3 months. \$1,900

Ownley, B.H., K.D. Gwinn, R. N. Trigiano, and J. M. Zale. 2009. Development of a web-based instructional module on "Basic Laboratory Skills. Faculty First 9 months \$1,288.

Trigiano, R. N. 2009. Woody plant genomics. USDA/MOA 12 months. \$464,520.

Trigiano, R.N. 2008. Woody plant genomics. USDA/MOA. 12 months. \$550,347.

Trigiano, R.N. 2007. Woody plant genomics. USDA/MOA. 12 months. \$557,332.

Wadl, P., and R. N. Trigiano. 2006. Breeding dogwoods. J. F. Schmidt Foundation. 12 months, \$6,000.

Ownley, B. H., and R. N. Trigiano. 2006. Development of six on-line modules for mycology. UT-Innovative Technology.(one year). \$13,500.

Li, Y., M. T. Windham, D. C. Fare, and R. N. Trigiano. 2006. Development of a new technique for evaluating resistance to powdery mildew in dogwood. Horticultural Research Institute. 12 months, \$4,000.

Ownley, B. H., R. N. Trigiano, and M. L. Bentley. 2006. Teaching biotechnology and molecular biology in 8-12 grade classrooms. Tennessee Higher Education Commission, Improving Teacher Quality. 9 months, \$74,936.

Trigiano, R. N. 2006. Woody plant genomics. USDA/MOA. 12 months, \$559,565.

Trigiano, R. N. 2005. Woody plant genomics. USDA/MOA. 12 months, \$517,854.

Trigiano, R. N. 2004. DNA Profiling of pistachio and pomegranate cultivars. Paramount Farming. 12 months, \$8,000.

Trigiano, R. N. 2004. Woody plant genomics. USDA/MOA. 12 months, \$474,000.

Lamour, K., Windham, A. S., M. T. Windham, and R. N. Trigiano. 2003. USDA/APHIS. Detection of sudden oak death in Tennessee. 12 months, \$55,000.

Trigiano, R. N. 2003. Teaching molecular biology and biotechnology to high school teachers. Tennessee Higher Education Commission, Improving Teacher Quality. 9 months, \$72,769.

Trigiano, R. N. 2003. DNA profiling of crape myrtles. LaceBark Inc. 12 months, \$4,200.

Trigiano, R. N. 2003. Woody Plant Genomics. USDA/MOA. 12 months, \$244,202.

Trigiano, R. N. 2003. 451 Company – DNA profiling of hybrid Bermuda turfgrasses. 12 months, \$10,400.

Windham, A. S., M. T. Windham, and R. N. Trigiano. 2002. Detection of Sudden Oak Death in Tennessee. USDA/APHIS. 12 months, \$55,000.

Trigiano, R. N. 2002. Woody plant genomics. USDA/MOA. 12 months, \$177,516.

Trigiano, R. N. 2002. Profiling pistachio germplines. Paramount Farming, Inc. 12 months, \$4,250.

Windham, M. T., W. T. Witte, and R. N. Trigiano. 1999. Development of powdery mildew resistant cultivars of flowering dogwood. Horticultural Research Institute. 12 months, \$10,000.

Trigiano, R. N. 1999. DNA profiling of Hosta cultivars. Laymen Nursery. 12 months, \$1,500.

Windham, M. T., W. T. Witte, and R. N. Trigiano. 1999. Development of powdery mildew resistant cultivars of flowering dogwood. Horticultural Research Institute. 12 months, \$10,000.

Trigiano, R. N., and M. T. Windham. 1999. Breeding flowering dogwood. Intl. Soc. Arboriculture. 12 months, \$9,000.

Trigiano, R. N., and M. T. Windham. 1999. Breeding flowering dogwood. John Z. Duling. Intl. Soc. Arboriculture. 12 months, \$2,500.

Trigiano, R. N., and M. T. Windham. 1998. Breeding flowering dogwood for disease resistance. Funding and partnership from three nurseries. 24 months, \$30,000.

Trigiano, R. N. 1997. Identification of carnation cultivars using DNA fingerprinting. Yoder Brothers, Inc. 12 months, \$750.

Trigiano, R. N., M. T. Windham, B. B. Reddick, and G. Caetano-Anollés. 1996. Development of molecular probes to detect hybrids between cultivars and/or native trees of flowering dogwood. Tenn. Agric. Expt. Stat. Reallocation Grant. 12 months, \$12,500.

Windham, M. T., and R. N. Trigiano. 1996. Powdery mildew resistance in flowering dogwood. Horticultural Research Institute. 12 months, \$5,500.

## AWARDS

2015. Volkswagen Fellow Mentor. Volkswagen Foundation, Hannover, Germany.

2015. Institute Professor. University of Tennessee Institute of Agriculture. Chancellor Award.

2014. HortScience. September 2014 Cover for Issue 9: Wadl, P.A., R. Evans, M.T. Windham, and R.N. Trigiano. 2014. Three new cultivars of *Cornus kousa*: 'Empire', 'Pam's Mountain Bouquet' and 'Red Steeple'.

2013. American Society of Horticultural Science. Most Outstanding Ornamental Publication Award published by the society in 2012. J Amer. Soc. Hort. Sci. 137(3):189-201.

2010 B. Ray Thompson, Sr. Award. Outstanding Faculty Performance. University of Tennessee Institute of Agriculture.

2008 HortTechnology, January-March 2008 Cover for Issue 1: Trigiano, R.N., B.H. Ownley, A.N. Trigiano, J. Coley, K.D. Gwinn, and J. K. Moulton. Fifth most downloaded article from HortTechnology since 1991.

2007 B. Otto and Kathleen Wheeley Award of Excellence in Technology Transfer. Awarded for developing and bringing to market new cultivars of *Cornus florida* for the nursery industry. Awarded also for conceiving, founding and operating Creative Agricultural Technologies, LLC to market the trees.

2006 Elected Fellow of the American Society for Horticultural Science (ASHS) in recognition of outstanding contributions to Horticulture and to the Society. Election as a Fellow of the Society is the highest honor that ASHS can bestow on its members.

2000 Gamma Sigma Delta, UTK Chapter. Team Research Award to Dogwood Breeding Team.

1999 Southern Region American Society for Horticultural Science L.M. Ware Research Award for: Genetic signatures from amplification profiles characterize DNA mutants in somatic and radiation-induced sports of chrysanthemum. J. Amer. Soc. Hort. Sci. 123 (4): 642-646.

1999 American Society for Horticultural Science Education Publication Award for: Laboratory



exercises on DNA amplification fingerprinting for evaluating the molecular diversity of horticultural species. HortTechnology 8 (3): 413-423.

1991 Gamma Sigma Delta, UTK Chapter. Research Award of Merit.

1991 T.J. Whatley Distinguished Young Scientist Award (The University of Tennessee, Institute of Agriculture).

## TEACHING

### Courses

**EPP 675** Scientific Writing and Grantmanship – team taught – every year.

**EPP 505** Mycology 3 credits —Invited lectures for Oomycota, Zygomycota and Mushroom Growing- alt. years. Morphology, taxonomy, biology, and genetics of the major groups of fungi and their allies.

**EPP 528 Molecular Techniques in Plant Pathology.** (3 cr.). Every other year.

**EPP/PS 545** Plant Microtechnique on demand - 1 credit. Practical light and scanning electron microscopy methods for investigating aspects of plant development, histochemistry and pathological structures in ornamental, forest and crop species.

## STUDENTS DIRECTED (SERVED ON 36 MS AND 24 PH.D. COMMITTEES 1987-2015)

**Kristie Mantooth.** (2016). MS Thesis. Characterization of *Discula destructiva*, the causal agent of dogwood anthracnose, populations in North America.

**Deborah D. Roberson.** 2014. Ph.D. Dissertation – Molecular Characterization and Breeding of *Viburnum* Species.

**Sarah Boggess.** 2013. MS Thesis. Comparative Genomes Using SSRs for *Pityopsis ruthii* and *P. graminifolia*.

**Denita Habziabdic Guerry.** 2010. Ph.D. Dissertation - Population Analysis of Native *Cornus florida* Trees in the Eastern United States.

**Phillip A. Wadl.** 2009. Ph.D. Dissertation - Breeding *Cornus* Species.

**Rena DeVries.** 2006. M. S. Thesis - Genetic Characterization of *Sclerotinia homeocarpa* Delineated by AFLP and Vegetative Compatibility.

**Naomi R. Smith.** 2005. M. S. Thesis - AFLP Characterization of Twenty Cultivars of *Cornus florida*.

**Denita Hadziabdic.** 2004. M. S. Thesis - In Vitro Rooting of Ornamental Plants (*Cornus kousa*, *Cladrastis lutea* and *Echinacea purpurea*).

**Anjana Sharma.** 1999. M. S. Thesis - Rooting Flowering Dogwood (*Cornus florida*) Microshoots.

**M. Catherine Scott.** 1996. M. S. Thesis - DNA Amplification Fingerprinting of Chrysanthemum Cultivars.

**Olga Ruiz-Marin.** 1995. M. S. Thesis - Heavy Metal Salts and Osmotic Pressure Affect Shoot Regeneration from Leaf Explants of *Dendranthema grandiflora*.

**L. Graham Buckley.** 1992. M. S. Thesis - Relationship of Ovule Developmental Parameters to Somatic Embryogenesis in *Cercis Canadensis*.

**Lori A. Weaver.** 1990. M. S. Thesis - Axillary Bud Proliferation and Somatic Embryogenesis in American Yellowwood (*Cladrastis lutea* (Michx.) K. Koch).

**Roger A. May.** 1989. M. S. Thesis - Somatic Embryogenesis of *Chrysanthemum morifolium* Ramat.

**Anita M. Lujan.** 1987. M. S. Thesis - Transmission of Somatic Embryogenesis via Sexual Hybridization in *Dactylis glomerata* L.