

BIOGRAPHICAL SKETCH

Jeanine Marie Davis

Education

Ph.D., 1987, Horticulture, Washington State University, Pullman, Wash.

M.S., 1983, Horticulture, Washington State University, Pullman, Wash.

B.S., 1980, Horticulture, magna cum laude, Delaware Valley College, Doylestown, Penn.

A.A., 1975, Fine Arts, Montgomery County Community College, Blue Bell, Penn.

Professional Experience:

Associate Professor, Extension Specialist, NC Specialty Crops Program-western activities

Jan. 2008- present, NC State University, Dept. of Horticultural Science, NC

Associate Professor, Extension Specialist, and N.C. Specialty Crops Program Coordinator

July 1999-Dec. 2007 NC State University, Department of Horticultural Science, NC

Associate Professor and Extension Specialist

July 1994- June 1999, NC State University, Department of Horticultural Science, NC

Assistant Professor and Extension Specialist

Feb. 1988-June 1994, NC State University, Department of Horticultural Science, NC

Graduate Research and Teaching Assistantships

June 1981-Dec. 1987, Washington State University, Dept. of Hort. Science & LA, WA

Recent Externally Sponsored Grant Projects:

\$363,846 Production of Echinacea with Optimal Bioactivity. UNC-Admin. (co-PI). Involves collection of Echinacea from organic farms and gardens across the state and growing Echinacea organically in research greenhouses.

\$195,000 Building Organic Training Capacity. Southern SARE. (co-PI). This involved organizing two three-day training sessions on organic production of horticultural crops for forty-six NC extension agents in 2008. A webpage and notebook were created. In 2009, more than 50 agents from across the South will participate in advanced organic training in NC.

\$499,395 Improved Farm Profit with Farmland Protection and High Value Crops. (PI) NRI-USDA. This project created decision making tools for farmers to help them identify new crops and appropriate farm protection tools to keep their farms profitable.

\$ 75,000 The NC Specialty Crops Program-Focusing Our Efforts. (PI) Golden Leaf Foundation. This project funded a variety of new crop research and extension projects across the state.

\$ 94,371 Growing the N.C. Medicinal Herb Industry. (PI) NC Tobacco Trust Fund Commission. This project worked with more than 40 farmers across the state to produce and sell medicinal herbs as potential alternative crops for tobacco.

\$155,000 Making the NC Medicinal Herb Industry a Reality. Golden Leaf Foundation This grant allowed expansion and continuation of the Tobacco Trust Funded Project to provide growers with additional support and train extension agents across the state.

\$ 80,000 Herb Project. Rural Center Grant through Land of Sky Regional Council. This project allowed the Medicinal Herb Project to meet special needs of farmers in the mountains, particularly by developing low-cost dryers.

Scholarly and Professional Honors:

NC Biotechnology Center, Western Office, Science in the Mtns Collaborator Award
North Carolina Vegetable Growers Association, Support Award 2006
Carolina Farm Stewardship Association Activist of the Year Award, 2004
NC State University Achieve! Featured achiever, 2004
Ext. Blue Ribbon Publication Award-Am. Soc. Hort. Science-S. Region, 2002, 1999, 1996, 1994
Certificate of Appreciation-Smoky Mountain Native Plants Association, 2001
Outstanding Program of Excellence-Epsilon Sigma Phi. Gold medal winner, 2000
Extension Educational Aids Award-Amer. Soc. Hort. Science- National, 1994
Certificate of Appreciation-International Herb Growers & Marketers Association, 1994

Current Professional Service:

Editorial board for HortTechnology
Editorial board for the Journal of Herbs, Spices, and Medicinal Plants
Affiliate Professor-Western Carolina University, 2002-present
Adjunct Professor-Dept. of Horticulture, Clemson University, 1995-present
Advisory committee member, Western Office of Biotechnology Center, NC Biotechnology Center (2004-present)
Advisory committee member, Center of Innovation on Natural Products, NC Biotechnology Center (2008-present)
Advisory committee member, Agriculture and Biotechnology, NC Biotechnology (2009)
Board Member, ,NC Natural Products Association
Vice-President, Organic Growers School

Current Websites:

<http://ncherb.org> <http://ncspecialtycrops.org> <http://ncorganic.org>

Recent Peer Reviewed Publications:

Graf, T.N., K.E. Levine, M.E. Andrews, J.M. Perlmutter, S.J. Nielson, J.M. Davis, M.C. Wani, and N.H. Oberlies. 2007. Variability in the yield of benzophenanthridine alkaloids in wildcrafted vs cultivated bloodroot (*Sanguinaria canadensis* L.). J. Agric.. Food Chem. 55(4):1205 - 1211.

McCoy, J., J.M. Davis, N.D. Camper, I. Khan, and A. Bharathi. 2007. Influence of rhizome propagule size on yields and triterpene glycoside concentrations of black cohosh [*Actaea racemosa* L. syn. *Cimicifuga racemosa* (L.) Nuttall]. HortScience 42(1):61-64.

Qu, L., Y. Chen, X. Wang, R. Scalzo, and J.M. Davis. 2005. Patterns of variation in alkamides and cichoric acid in roots and aboveground parts of *Echinacea purpurea* (L.) Moench. HortScience 40(5):1239-1242.

Qu, L. X. Wang, Y. Chen, R. Scalzo, M.P. Widrlechner, J.M. Davis, and J. F. Hancock. 2005. Commercial seed lots exhibit reduced seed dormancy in comparison to wild seed lots of *Echinacea purpurea*. HortScience 40(6):1843-1845.

Davis, J.M., D.C. Sanders, P.V. Nelson, L. Lengnick, and W.J. Sperry. 2003. Boron improves growth, yield, quality, and nutrient content of tomato. J. Amer. Soc. Hort. Sci. 128(3):441-446.

Recent Books and Book Chapters:

Chamberlain, J.L. , D. Mitchell, L. Zabek, J. Davis, T. Brigham, and T. Hobby. 2008. Forest Farming. Chapter 9, North American Agroforestry . American Society of Agronomy (in press).

Persons, W.S. and J.M. Davis. 2007 (Revision). Growing and Marketing Ginseng, Goldenseal, and Other Woodland Medicinals. 466 p. Bright Mountain Books, Fairview, NC.

Davis, J.M. 2007. Growing and marketing woodland botanicals. Issues in New Crops and New Uses, J. Janick and A. Whipkey (eds). ASHS Press, Alexandria, VA, p. 274-279.

Persons, W.S. and J.M. Davis. 2005. Growing and Marketing Ginseng, Goldenseal, and Other Woodland Medicinals. 466 p. Bright Mountain Books, Fairview, NC.

Recent Published Research Abstracts and Proceedings:

Davis, J.M. and R Gardner. 2008. Growing heirloom and heirloom-type tomato hybrids in organic and conventional production systems. HortScience 43(4):1259 (poster).

Davis, J.M. 2008. The Farm prosperity project: An integrative project to improve farm profit with farmland protection and high value crops. HortScience 43(4):1291. (poster).

Davis, J.M. 2007. Research on bringing goldenseal, a native woodland botanical, into commercial cultivation. Proceedings of the 10th North American Agroforestry Conference, Quebec City, Quebec, Canada , A. Oliver and S. Campbell, eds. , p. 315-320 (invited).

Davis, J.M. 2007. Keynote: Growing and marketing native forest botanicals. Proceedings of the 10th North American Agroforestry Conference, Quebec City, Quebec, Canada A. Oliver and S. Campbell, eds., p. 277-284 (invited).

Other Recent Relevant Publications:

Davis, J. and A. Hamilton. 2008. Dryers for commercial herb growers: A construction guide. NC Cooperative Extension Service, 8 pages.

Davis, J.M. 2008. Culinary herb production promising for farm markets. Vegetable Growers News 42(3):28-29.

Davis, J. 2008. Growing and marketing heirloom tomatoes. The Tomato Magazine 12(1):20-22.

Davis, J.M. and R.G. Gardner. 2008. Growing heirloom and heirloom type hybrid tomatoes in organic and conventional production systems. Stewardship News 28(3):1,7.

Greenfield, J. and J.M. Davis. 2003. Collection to Commerce: Western North Carolina Non-Timber Forest Products and Their Markets. Report to the US Forest Service.