

Research Profile



First name: Arthur O. **Last name:** Tucker
Title: Research Professor
Department: Agriculture and Natural Resources
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Professional Education:

- B.A. Kutztown University, Kutztown, PA; June 1967
- M.S. Rutgers University, New Brunswick, NJ; June 1970
- Ph.D. Rutgers University, New Brunswick, NJ; June 1975

Research Interest Area(s):

Ethnobotany, especially plants of flavor, fragrance, and medicine Systematics of the Lamiaceae, especially the genus *Mentha* Essential oil chemistry

Active Grants & Funding:

- Evans-Allen

Professional Affiliations:

- American Association for the Advancement of Science
- American Association of University Professors
- American Horticultural Society
- American Iris Society
- American Ivy Society
- American Society for Horticultural Science
- American Society of Plant Taxonomists
- Botanical Society of America
- Delaware Herb Growers & Marketers Association
- Hardy Plant Society
- The Herb Society of America Heritage Roses
- Historic Iris Preservation Society
- International Association for Plant Taxonomy
- International Carnivorous Plant Society International Herb Association
- North American Rock Garden Society, Delaware Valley Chapter Pennsylvania



Professional Affiliations (continued):

- Horticultural Society
- Philadelphia Botanical Club
- Sigma Xi Society for Economic Botany
- Society of Natural History of Delaware
- Society of Ethnobiology
- Southern Appalachian Botanical Club
- Southern Garden History Society T
- orrey Botanical Club
- Washington Botanical Club

Honors & Awards Received (last five years):

Delaware Cooperative Extension Certificate of Achievement for Positively Outrageous Service, 2008 Annual Conference, October 7, 2008.

Publications (last three years):

Books:

- Tucker, A. O., and T. D. DeBaggio. 2009. The encyclopedia of herbs. Timber Press, Portland, OR. 604 pp.

Book Chapters:

- Tucker, A. O. 2008. The poet's marigold, *Calendula officinalis*. Pages 1-7 in S. Belsinger, ed. *Calendula: Herb of the Year 2008*. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, A. O. 2009. Bay laurel, Grecian bay. Pages 1-13 in S. Belsinger, ed. *Gay (Laurus nobilis): Herb of the Year 2009*. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, A. O. 2010. Dill. Pages 1-10 in S. Belsinger, ed. *Dill (Anethum graveolensL.): Herb of the Year 2010*. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, 2010. *Armoracia rusticana*. Pages 19 in S. Belsinger, ed. *Horseradish (armoracia rusticana): Herb of the Year 2011*. Intern. Herb Assoc., Jacksonville, FL.

Proceedings:

- Tucker, A. O. 2008. Bay laurel. Pages 15-19 in *Proceedings of Herbs '08*, International Herb Association, Gettysburg, Pennsylvania.
- Tucker, A. O. 2009. Transgressive segregation and cytomixis: Important genetic and cytological phenomena in the phenotypic expression of essential oil constituents and patterns in *Mentha* (mint). *HortScience* 44:550.
- Tucker, A. O. 2009. Dilly of an umbel. Pages 24-32 in *Proceedings of Herbs '09*, International Herb Association, Huntsville, Alabama.
- Tucker, A. O. 2010. Genetics and biotechnology of the genus *Mentha*: a model for other polyploidy species with essential oils and other plant constituents? Page 32 in *1st Annual Conference of the American Council for Medicinally Active Plants (ACMAP)*, July 20-23, 2010, Rutgers University, New Brunswick, NJ.

Refereed Publications:

- Tucker, A. O., M. J. Maciarello, R. Brown, and M. Griffeth. 2008. A commercial essential oil of mandravasarotra (*Cinnamosma fragrans* Baill., Canellaceae) from Madagascar. *J. Essential Oil Res.* 20:259-260.
- Tucker, A. O., M. J. Maciarello, R. C. Brown, L. R. Landrum, and D. Lafferty. 2009. Essential oils from the oleo-gum resins of elephant tree or torote (*Bursera microphylla* A. Gray, Burseraceae) from Arizona. *J. Essential Oil Res.* 21:57-58.

Popular Publications:

- Tucker, A. O. 2008. Garden thug killed mother. *Delaware State News* January 6, 2008:22.
- Tucker, A. O. 2008. Dressing can spice up greens. *Delaware State News* February 10, 2008:16.
- Tucker, A. O. 2008. Beware the people-eating plants? *Delaware State News* March 2, 2008:17.
- Tucker, A. O. 2008. Flowers speak many languages. *Delaware State News* April 20, 2008:21.
- Tucker, A. O. 2008. The language of flowers. *IHA News* Spring 2008: 7-8.
- Tucker, A. O. 2008. Home's garden yields mosquito repellents. *Delaware State News* May 4, 2008:21.
- Belsinger, S., and A. O. Tucker. 2008. Redolent with chiles, chocolate, garlic and herbs, these sumptuous sauces have you shouting olé. *Herb Companion* 20(4):42-47.
- Tucker, A. O. 2008. Smell of grass must mean summer. *Delaware State News* May 26, 2008:17.
- Tucker, A. O. 2008. Area's state flowers varied. *Delaware State News* June 22, 2008:18.
- Tucker, A. O. 2008. Lavender, spike and lavandin. *Herbarist* 74:40-43.
- Tucker, A. O. 2008. Native American herbs of flavor & fragrance. *Herbarist* 74:99-103.
- Tucker, A. O. 2008. Area's state trees have a rich history. *Delaware State News* July 20, 2008:9.
- Tucker, A. O. 2008. The variability of the odours of lavender, spike, lavandin, and the chief constituents of their essential oils. *Lavender Australia* 10(2):14-16.
- Tucker, A. O. 2008. Collection details botanical education of women. *Delaware State News* August 17, 2008:36.
- Tucker, A. O. 2008. Of skunks, heat and crickets. *Delaware State News* September 28, 2008:36.
- Tucker, A. O. 2008. Hmm...the smell of grass. *Herb Soc. Amer. Newsl.* 12(3):1, 4.
- Tucker, A. O. 2008. What's cooking. *Lavender Australia* 10(3):7.
- Tucker, A. O. 2008. Religious gardens come in many, varied forms. *Delaware State News* November 2, 2008:48.
- Tucker, A. O. 2008. Politics and gardening really do mix. *Delaware State News* November 23, 2008:24.
- Tucker, A. O. 2009. Winter gardens a family tradition. *Delaware State News* January 18, 2009:23.



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- Tucker, A. O. 2009. Bamboozles found in garden. Delaware State News February 15, 2009:23.
- Tucker, A. O. 2009. New climate produces new American front yard. Delaware State News March 18:10.
- Tucker, A. O. 2009. Bamboozles in the garden. IHA News Spring 2009: 10, 22.
- Tucker, A. O. 2009. Planting crops by the moon can go in phases. Delaware State News April 26:31.
- Tucker, A. O. 2009. Can plants really predict the weather? Delaware State News May 25:26.
- Tucker, A. O., and M. J. Maciarello. 2009. Control of sudden dieback in herbs. Lavender Australia 11(1):26-276.
- Tucker, A. O. 2009. Planting by the moon. IHA News Summer 2009:1, 17.
- Tucker, A. O. 2009. Help! My pet cat is becoming a nip head. Delaware State News July 5:28.
- Tucker, A. O. 2009. In forensic botany, plants can help solve crimes. Delaware State News August 16:27.
- Tucker, A. O. 2009. Beyond mums and asters for the fall season. Delaware State News September 27:37.
- Tucker, A. O. 2009. Help! My cat is a nip-head. IHA News Fall 2009:9.
- Tucker, A. O. 2009. Try some turnip lanterns for Halloween this year. Delaware State News October 25:35-36.
- Tucker, A. O. 2009. Herbs of African-American syncretic religions. Herbarist 75:31-35.
- Tucker, A. O. 2009. Harmony, clashes, and fashion in the garden. Lavender Australia 11(3):10
- Tucker, A., O. 2009. Kissing under mistletoe dates back centuries. Delaware State News December 6:36-37.
- Tucker, A. O. 2010. Garden tips, or how I spent my summer. Lavender Australia 11(4):12.
- Tucker, A. O. 2010. Unusual fruits, vegetables and herbs ripe for discovery. Delaware State News January 31:41.
- Tucker, A. O. 2010. Potting salad greens pays off in summer fare. Delaware State News March 14:37, 39.
- Tucker, A. O. 2010. Plant zoo helps children appreciate gardening. Delaware State News May 16:50.
- Tucker, A. O. 2010. Hmm, the smell of grass, it must be summer. IHA News Spring 2010:6.
- Tucker, A. O. 2010. Green roses important to legend of railroad. Delaware State News June 27:40.
- Tucker, A. O. 2010. A visit to the garden of 'A Man Named Pearl.' Delaware State News September 19:40.
- Tucker, A. O. 2010. Heritage rose district, the green rose, and the Underground Railroad. IHA NEWS Fall 2010:12.
- Tucker, A. O. 2010. Incredible moving plants delight and amaze. Delaware State News October 31:52.
- Tucker, A. O. 2010. Does absinthe make the heart grow fonder? Delaware State News December 5:51.