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Department of Evolution, Ecology, and Organismal Biology
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EDUCATION

The Ohio State University, Columbus, Ohio
Ph.D., Major: Plant Breeding and Genetics
M. S., Major: Plant Breeding and Genetics
B. S. Agriculture, Major: Agronomy

PROFESSIONAL EXPERIENCE

RESEARCH ASSOCIATE/LAB MANAGER, The Ohio State University, Columbus, Ohio. Dept. of Evolution, Ecology, and Organismal Biology. 2002 -present.

RESEARCH ASSOCIATE, The Ohio State University, Columbus, Ohio, Pharmacy, 2000-2001

STATE EXTENSION SPECIALIST, SEED BIOLOGY. The Ohio State University, Columbus, Ohio. Horticulture and Crop Science Department, 1999-2000.

SENIOR RESEARCH ASSOCIATE/RESEARCH ASSOCIATE, The Ohio State University, Columbus, Ohio. Agronomy/Horticulture and Crop Science Department, 1991-1999.

PROJECT LEADER, Soybean Varietal Development,
Asgrow Seed Co., Janesville, Wisconsin, 1990-1991.

TEACHING

Seed Production. 1999

Current Topics in Turfgrass Research. 1997-1998

Principles of Turfgrass Selection and Management. 1996-1997

RECENT PRESENTATIONS AND ABSTRACTS

Snow, A. A., S. Travis, R. Wildova, P. M. Sweeney,* et al. 2009. DNA markers for studies of hybridizing cattail populations (*Typha latifolia* x *T. angustifolia*) in North America. Society of Wetland Scientists Annual Meeting, Madison, WI, June 22, 2009.

Snow*, A. A., P. M. Sweeney, C. H. Pearson, D. J. Rath, and M. Reagon. 2008. Volunteers vary: fecundity, seed shattering, and dormancy of volunteers from open- and hand-pollinated sunflowers (*Helianthus annuus*). Tenth International Symposium on the Biosafety of Genetically Modified Organisms, Wellington, New Zealand, November 17, 2008

Snow*, A. A., P. M. Sweeney, C. Grenier, T. Tesso, I. Kapran, G. Bothma, G. Ejeta, and J. F. Pedersen. 2008. Lifetime fecundity of F₁ crop-wild sorghum hybrids: implications for gene flow from transgenic sorghum in Africa. Tenth International Symposium on the Biosafety of Genetically Modified Organisms, Wellington, New Zealand, November 17, 2008.

Snow*, A. A., P. Sweeney, S. Su, M. Reagon, C. Grenier, G. Ejeta, I. Kapran, T. Tesso, J. Pedersen, G. Bothma. 2008. Gene flow from sorghum to wild and weedy conspecifics in Africa and the USA: implications for transgenic sorghum. Weed Science Society of America Annual Meeting, Chicago, IL, February 6, 2008

Campbell*, L. G., A. A. Snow, and P. M. Sweeney. 2008. Crop-wild hybridization and the rate of evolution in weeds. Gene Flow Symposium, North Central Weed Science Society of America, St. Louis, MO, December 12, 2007

Snow, A. A., P. M. Sweeney*, C. Grenier, I. Kapran, T. Tesso, G. Ejeta, J. F. Petersen, G. Bothma. 2007. Lifetime fecundity of F₁ crop-wild sorghum hybrids: implications for gene flow from transgenic sorghum in Africa. Gene Flow Symposium, North Central Weed Science Society of America, St. Louis, MO, December 12, 2007.

Snow*, A. A., P. M. Sweeney, R. Wildova, D. E. Goldberg, and J. Gao. 2007 Hybrids between *Typha angustifolia* and *T. latifolia* – are they more invasive than their parents? Poster - Ohio Invasive Plants Conference, Delaware, OH, Jan. 18, 2007.

Snow*, A. A., P. M. Sweeney, N. T. Lang, and B. C. Buu. 2006. Hybrids between weedy and cultivated rice (*Oryza sativa*) in the Mekong Delta of Vietnam exhibit heterosis: implications for rapid evolution in weedy rice. Botanical Society of America, Chico, CA. Aug. 1, 2006

Tesso, T., I. Kapran, C. Grenier*, G. Ejeta, A. Snow, J. Pedersen, G. Bothma, D. Marx, and P. Sweeney. 2005. Potential for crop-to-wild gene flow in sorghum in Ethiopia and Niger. Crop Gene Flow Symposium, North Central Weed Science Society, Kansas City, MO, Dec. 13 2005

Snow*, A. A., D. Goldberg, R. Wildova, J. Hyde, and P. M. Sweeney. 2005. Is invasive *Typha x glauca* always an F₁ hybrid in the north-central USA? Contributed Paper - Botanical Society of America, Austin, TX, Aug. 13.

PUBLICATIONS

Campbell, L. G., A. A. Snow, P. M. Sweeney. When divergent life histories hybridize: insights into adaptive life-history traits in an annual weed. *New Phytologist*, *in press*.

Campbell, L. G., A. A. Snow, P. M. Sweeney, and J. M. Ketner. 2009. Rapid evolution in crop-weed hybrids under artificial selection for divergent life histories. *Evolutionary Applications* 2:172-186.

Tesso, T., I. Kapran, C. Grenier, A. Snow, P. Sweeney, J. Pedersen, D. Marx, and G. Bothma, and G. Ejeta. 2008. The Potential for Crop-to-Wild Gene Flow in Sorghum in Ethiopia and Niger: A Geographic

Survey. *Crop Sci.* 48:1425-1431.

Klips, R.A., P.M.Sweeney, E.K.F. Bauman, A.A. Snow. 2005 Temporal and Geographic Variation in Predispersal Seed Predation on *Hibiscus moscheutos* L. (Malvaceae) in Ohio and Maryland, USA. *Amer. Mid. Nat.* 154:286-295.

Bao, S., Y. Wang, P. Sweeney, A. Chaudhuri, A. Doseff, C. Marsh, and D. Knoell. 2005. Keratinocyte Growth Factor induces Akt kinase activity and inhibits Fas-mediated apoptosis in A549 Lung Epithelial Cells. *Am.J. Physiol. Lung Cell Mol. Physiol.* 288: 136-142.

Coulter, K., A. Doseff, P. Sweeney, Y. Wang, C. Marsh, M. Wewars, D. Knoell. 2002. Opposing Effect by Cytokines on Fas-Mediated Apoptosis in A549 Lung Epithelial Cells. *Am. J. Respir. Cell Mol. Biol.* 26:58-66.

Golembiewski, R.C., T. K. Danneberger, and P. M. Sweeney. 2001. Lack of Dollar Spot (*Sclerotinia homeocarpa* ft. Bennett) Influence on Changing the Composition of a Stand of Creeping Bentgrass. *Intl. Turf. Soc. Res. J.* 9:665-668.

Sweeney, P.M., T. K. Danneberger, D. Wang, and M. McBride. 2000. Seasonal Variation in Root Mass, Nonstructural Carbohydrates Levels and Shoot Density in Creeping Bentgrass Cultivars. *HortScience* 35:368-370.

Sweeney, P.M. and T. K. Danneberger. 2000. Inheritance of Restriction Amplification Fragment Length Polymorphisms in Perennial Ryegrass. *Crop Sci.* 40:1126-1129.

Sweeney, P. M. and T. K. Danneberger. 1997. RAPD Markers from Perennial Ryegrass DNA Extracted from Seeds. *HortScience* 37:1212-1215.

Golembiewski, R. C., T. K. Danneberger, and P. M. Sweeney. 1997. RAPD Analysis of Creeping Bentgrass Seed and Leaf Tissue. *International Turfgrass Society Research Journal* 8:291-296.

Golembiewski, R. C., T. K. Danneberger, and P. M. Sweeney. 1997. Potential of RAPD Markers for use in Identification of Creeping Bentgrass Cultivars. *Crop Science* 37:212-214.

Zhang, J., M. B. McDonald, and P. M. Sweeney. 1997. Genetic Purity in Petunia and Cyclamen Seed Using RAPD Markers. *HortScience* 32:246-247.

Zhang, J., M. B. McDonald, and P. M. Sweeney. 1996. Random Amplified Polymorphic DNA (RAPDs) from Seeds of Differing Soybean and Maize Genotype. *Seed Sci. and Tech.* 24:513-522.

Zhang, J., M. B. McDonald, and P. M. Sweeney. 1996. Soybean Cultivar Identification using RAPDs. *Seed Sci. and Tech.* 24:589-592.

Sweeney, P. M., R. C. Golembiewski, and T. K. Danneberger. 1996. RAPD analysis of Dry Turfgrass Seed. *HortScience* 31:400-401.

Sweeney, P. M. and T. K. Danneberger. 1996. Restriction Digestion of Arbitrary Amplification Fragments of *Poa annua* L. *Crop Sci.* 36:1301-1303.

Sweeney, P. M. and T. K. Danneberger. 1995. Random Amplification Polymorphic DNA (RAPD) Characterization of *Poa annua* L. Populations in Golf Course Greens and Fairways. *Crop Sci.* 35:1676-1680.

Dimascio, J. A., P. M. Sweeney, T. K. Danneberger, and J. C. Kamalay. 1994. Analysis of Heat Shock Response in Perennial Ryegrass using Maize Heat Shock Protein Clones. *Crop Sci.* 34:798-804.

McDonald, M. B., L. J. Elliot, and P. M. Sweeney. 1994. DNA Extraction from Dry Seeds for RAPD Analyses in Varietal Identification Studies. *Seed Sci. and Tech.* 22:171-176.

Sweeney, P. M. and T. K. Danneberger. 1994. Random Amplified Polymorphic DNA (RAPD) in Perennial Ryegrass (*Lolium perenne* L.): Bulk Samples versus Individuals. *HortScience* 29:624-626.

Sweeney, P. M., S. K. St. Martin, and C. P. Clucas. 1994. Indirect Inbred Selection for Drying Rate in Maize Hybrids. *Crop Sci.* 34:391-396.

Sweeney, P. M., T. K. Danneberger, and J. C. Kamalay. 1993. Fidelity of Amplification Fragment Length Polymorphisms within Multiple Extractions from Single Seedlings of Hard, Chewings, and Red Fescue. *Proc. 7th Inter. Turfgrass Res. Conf.* 7:768-774.

Sweeney, P. M. and S. K. St. Martin. 1989. Testcross Evaluation of Exotic Soybean Germplasm. *Crop Sci.* 29:289-293.

INVITED PRESENTATIONS

"Analysis of Heat Shock Response in Perennial Ryegrass". Presentation at Recent Cell and Molecular Genetics Approaches to Turfgrass Improvement: A Turfgrass Biotechnology Workshop. East Lansing MI. Aug. 1996.

BOOK CHAPTERS

Sweeney, P. M., T. K. Danneberger, J. A. Dimascio and J. K. Kamalay. 1997. Analysis of Heat Shock Response in Perennial Ryegrass. In: *Turfgrass Biotechnology: Cell and Molecular Genetics Approaches to Turfgrass Improvement*. Eds. M.B. Sticklen and M. Kenna. Ann Arbor Press pp. 145-152.