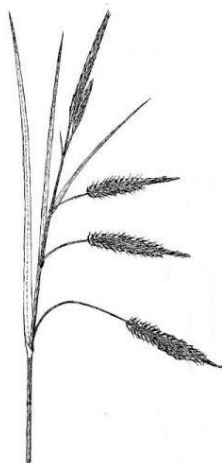


## Curriculum Vitae



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## EDUCATION

Ph. D. in Plant Biology, University of Vermont, March 10, 2006. Thesis: "The phylogeny and biogeography of the *Carex aquatilis* group, section *Phacocystis* (Cyperaceae)."

M. S. in Plant Biology, University of Vermont, March 11, 2002. Thesis: "The systematics of the *Carex acuta* complex."

B. S. in Anthropology and Minor in Botany, University of Florida, Gainesville, Florida, 1991.

## ACADEMIC PROFESSIONAL EXPERIENCE

*Researcher, University of Vermont*

Researcher, Vermont Genetics Network 2009-present

- ❖ Consult with investigators on best practices for gene expression study design;
- ❖ Analyze and interpret genomic and proteomic data for multiple local and regional investigators;
- ❖ Conduct weekly workshops on the interpretation and publication of statistical, multivariate, and biological pathway analyses of gene expression data.

*Researcher, McGill University*

Postdoctorate researcher, 2007-2009

- ❖ Inferring the origin of suspected hybrid taxa in the genus *Carex* using flow cytometry, chromosome morphological analysis, and DNA fragment analysis.
- ❖ Conducting research on the relationship between hybridization and increased salt tolerance through the analysis of morphological and ecological variation amongst salt tolerant taxa and their nearest relatives.

*Middlebury College Department of Biology, Middlebury, VT 05753*

Visiting Assistant Professor, 2006-2007

- ❖ Designing and teaching organismal and methodological courses and their associated labs

- ❖ to upper-level undergraduates, including Plant Biology and Plant Community Ecology;
- ❖ Serving as a thesis committee member for an undergraduate student studying scrub oak management on Nantucket Island;
- ❖ Assisting an undergraduate student with the completion and publication of her research on genetic diversity in Alaskan populations of black spruce;
- ❖ Conducting original research on genetic and morphological diversity within eastern North American populations of *Carex aquatilis* with an undergraduate environmental science major.

*University of Vermont Department of Botany & Agricultural Biochemistry, Burlington, VT  
05405-0086*

Pringle Herbarium Librarian, 2006-2008

- ❖ Participating in the Northeastern Herbarium Network Conference to initiate a program to digitize all herbarium holdings and make them accessible world-wide;
- ❖ Developing and managing a database for the biological collections and library holdings.

Systematics and Phylogeny Lab Instructor, Fall, 1998-2004

- ❖ Designed and instructed indoor and outdoor labs in plant identification, dichotomous key design and use, and phylogeny reconstruction;
- ❖ Instructed students in the various techniques used to infer taxonomic groups, including chromosome analysis and PCA, and in herbarium-quality plant collection and preparation.

Exploring Biology Teaching Assistant, Fall, 2005-2007

- ❖ Instructed students in laboratory techniques related to protein histology, DNA sequencing, and bacterial transformation;
- ❖ Instructed students in scientific writing, particularly for publication in peer-reviewed journals.

Introduction to Botany Teaching Assistant, Spring, 1998-2005

- ❖ Instructed students in the design and performance of basic laboratory experiments that illustrate major botanical concepts relating to transpiration, photosynthesis, genetics, and ecology
- ❖ Assisted students in the design and implementation of independent research projects.

### **OTHER PROFESSIONAL EXPERIENCE**

Conservation Steward, The Vt. Housing and Conservation Board, Montpelier, VT 1996-1997

- ❖ Wrote and monitored conservation easements, working with landowners to ensure proper stewardship of conserved lands;
- ❖ Developed a GIS database to assist the stewardship of lands conserved through VHCB and other collaborative organization.

Field Botanist, The Nature Conservancy, Providence, RI 1995-1996

- ❖ Participated in a regional floral inventory and plant communities classification project;
- ❖ Organized and led educational nature walks for children and adults on Block Island.

Agricultural Development Volunteer, U.S. Peace Corps, Mali, West Africa 1992-1994

- ❖ Organized and instructed numeracy classes for adult woman through a joint program with the Malian government and UNICEF;
- ❖ Designed and performed community-based health education programs in collaboration with local governmental agricultural land management and community healthcare organizations.

### **OTHER PROFESSIONAL ACTIVITIES**

#### *Membership in Professional Societies*

The Association of Biomolecular Resource Facilities	2009-present
Botanical Society of America	1998 - present

### **GRANT SUPPORT**

2007. “Hybridization and ecological speciation in the salt tolerant sedges (*Carex*, Cyperaceae). NSF International Research Fellowship Program. Co PIs Dr. Marcia J. Waterway, Plant Science Department, McGill University and Dr. Paul Ashton, Department of Natural and Applied Sciences, Edge Hill University. **Received \$153,000 for two years of funding.**

2007. “Securing the University of Vermont Plant Systematics Research Collections.” NSF Biological Research Collections Grant. Co PI David S. Barrington, Pringle Herbarium Curator. **Denied, however the proposal received positive reviews and suggestions for future applications for funds.**

2005. “Evolution and ecology of the flood-tolerant sedges (*Carex*, Cyperaceae).” NSF International Research Fellowship Program. Co PI Dr. Marcia J. Waterway, Plant Science Department, McGill University. **Denied, however the proposed research received positive reviews and the review panel strongly encouragement resubmission.**

2000. “The systematics of the *Carex acuta* complex.” **Received \$1,000 from the New England Botanical Club.**

2000. “The systematics of the *Carex acuta* complex.” **Received \$200 from the Central Vermont Audubon Society.**

### **REFEREED PUBLICATIONS**

LA Carlson; Tighe, SW, Westcott, NW; Kenefick, RW; Dragon, J, and RJ LeClair. *In review*. Global gene expression and immunophenotyping results in human peripheral blood mononuclear cells following resistance exercise. *European Journal of Applied Physiology*.

Dragon, J. A. and D. S. Barrington. 2009. The systematics of the *Carex aquatilis* and *Carex*

*lenticularis* lineages: geographically and ecologically divergent sister taxa of *Carex* section *Phacocystis* (Cyperaceae). *American Journal of Botany*.

Dragon, J. A. and D. S. Barrington. 2008. East vs. West: monophyletic clades within the paraphyletic *Carex acuta* complex, section *Phacocystis* (CYPERACEAE) in *Sedges: uses, diversity, and systematics of the Cyperaceae*, eds. R. F. C. Naczi and B. A. Ford. Monographs in Systematic Botany from the Missouri Botanical Garden: St. Louis, Missouri.

### INVITED PAPERS AND POSTERS

Dragon, J. A., Lescault, P., Matrajt, M., Currier, E., Sholler, G., and J. Bond. 2010. Customized support for Affymetrix GeneChip experiments. ABRF annual meeting, Sacramento, CA.

Dragon, J. A., Ashton, P. Dean, M., Cayouette, J., Waterway, M. J. Hybridization and ecological speciation in the salt tolerant *Carex aquatilis* lineage (Cyperaceae). Botany 2009, Snowbird, Utah, August 2009.

Dragon, J. A., and M. J. Waterway. 2008. "Exploring the sectional boundaries of *Carex* section *Phacocystis* (Cyperaceae)." Monocots IV, Copenhagen, Denmark, August 2008.

Dragon, J. A. 2006. "The systematics of the *Carex aquatilis* group (Cyperaceae): ecological speciation in a widespread wetland sedge." Middlebury College Biology Department Saul Lecture Series, October 2006.

Dragon, J. A., and D. S. Barrington. 2006. "The phylogeny and biogeography of the *Carex aquatilis* group, section *Phacocystis* (Cyperaceae)." American Institute of Biological Sciences annual meeting, Chico, California, August, 2006.

Dragon, J. A. 2004. "The systematics of the *Carex aquatilis-lenticularis* group: phylogeny, biogeography, and a taxonomic revision of the group in North America." Presented to the New England Botanical Club, Cambridge, MA, April 15, 2004.

Dragon, J. A., and D. S. Barrington. 2002. "The systematics of the *Carex acuta* complex." American Institute of Biological Sciences annual meeting, Madison, Wisconsin, August, 2002.

Dragon, J. A., and D. S. Barrington. 2002. "The systematics of the *Carex acuta* complex." Sedges 2002, Dover, Delaware, July 2002.

### OTHER PUBLICATIONS

Dragon, J. A. and K. Lynch. 1994. Numeracy (Translated from English to Bambara). UNICEF.

**References:**

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Janet Murray, Research Assistant Professor and Outreach Director  
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