

## Rebecca Nelson Brown



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Department of Plant Sciences  
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### Educational Background

B.A.	Saint Olaf College	Biology and the Paracollege, 1991.
M.S.	University of Minnesota	Plant Breeding, 1994
PhD	Oregon State University	Horticulture, 2001.

### Professional Experience

Assistant Professor Research and ADVANCE Fellow, University of Rhode Island Department of Plant Sciences January 2005 – Present  
Post-doctoral Research Associate, OSU Crop and Soil Sciences, October 2002 – December 2004  
Plant Breeding Project Assistant, OSU Department of Horticulture, July 2002 – October 2002  
Research Associate, OSU Department of Horticulture, August 2001 – June 2002  
Graduate Research Assistant, OSU Department of Horticulture, April 1996-August 2001  
Senior Laboratory Technician, Minnesota Extension Service, October 1994–January 1996  
Summer Research Assistant, Rogers Seed Co, Stanton, MN, June 1994–September 1994.  
Graduate Study, U of MN Department of Horticultural Science, June 1992 to June 1994.

### Area of Work

Breeding and genetics of turfgrasses, ornamental grasses and alternative grasses. Conduct variety trials, collect and improve germplasm, and use molecular genetics techniques to study traits of interest.

### Awards

1999	Baggett-Frazier Scholarship	Oregon State University
1998	Baggett-Frazier Scholarship	Oregon State University
1991	Ken Bonde Award	St. Olaf College Paracollege
1991	Phi Beta Kappa	St. Olaf College

## Professional Societies

American Society of Agronomy  
Crop Science Society of America  
Golf Course Superintendents Society of America  
International Turfgrass Society  
Turfgrass Breeders' Association  
American Association for the Advancement of Science

## Peer-Reviewed Publications:

- Brown, R. N., R. E. Barker, S. E. Warnke, L. A. Brilman, M. A. R. Mian, G. Jung and S.-C. Sim. (2005) QTL Analyses for Morphological Traits Useful in Distinguishing Annual Ryegrass and Turf-type Perennial Ryegrass. *Int. Turfgrass Soc. Res. J.* 10:516-524.
- Paris, H. S. and R. N. Brown. (2005). The Genes of Pumpkin and Squash. *HortScience* 40:1620-1630.
- R. E. Barker, S. E. Warnke, and R. N. Brown. (2005) Genetic Variability Among Intermediate Ryegrass Seed Lots and Cultivars Detected by RAPD Analysis. *Int. Turfgrass Soc. Res. J.* 10:490-494.
- Mehlenbacher S.A., Brown R.N., Davis J.W., Chen H., Bassil N.V., Smith D.C., and Kubisiak T.L. (2003) RAPD markers for eastern filbert blight resistance in *Corylus avellana*. *Theor. Appl. Genet.* 108:651-656.
- Brown, RN, AB Herrera, MK Jahn, and JR Myers (2003) The Inheritance of Resistance to Four Cucurbit Viruses in *Cucurbita moschata* (Duch. ex Poir.) and the Search for Molecular Markers Linked to Resistance, *Euphytica* 129:253-258.
- Brown, RN and JR Myers (2002) A Genetic Map of Squash (*Cucurbita* spp) with Randomly Amplified Polymorphic DNA Markers and Morphological Markers. *J. American Society Horticultural Science* 127:568-575.

## Other Publications:

- Brown, R. N., R. E. Barker, S. E. Warnke, L. A. Brilman, M. A. R. Mian, S.C. Sim and G. Jung. (2005) Identification of quantitative trait loci for flowering time in a field-grown *Lolium perenne* x *Lolium multiflorum* mapping population. in *Molecular Breeding for the Improvement of Forage Crops and Turf. Proceedings of the 4th International Symposium on the Molecular Breeding of Forage and Turf. XXth International Grassland Congress, July 2005, Aberystwyth, Wales. Wageningen Academic Publishers.*
- Brown, RN (2001) The Use and Development of Molecular Breeding Tools in *Cucurbita*: A Literature Review. *Cucurbit Genetics Coop. Rep.* 24:87-90.
- Brown, RN and JR Myers (2001) RAPD Markers Linked to Morphological and Disease Resistance Traits in Squash. *Cucurbit Genetics Coop. Rep.* 24:91-93
- Brown, RN and JR Myers (2000) Searching for molecular markers linked to ZYMV resistance in squash, *Cucurbit Genetics Coop. Rep.* 23:69-70.
- Brown, RN, JR Myers, M Hutton and P Miller (1998) A simple protocol for isolating DNA from fresh *Cucurbita* leaves, *Cucurbit Genetics Coop. Rep.* 21:46-47.
- Brown, R., N. Anderson and P. Ascher (1996) Congruity backcross (CBC) hybrids used to create three-species hybrids with *Phaseolus acutifolius* cytoplasm, *Ann. Rept. Bean Improv. Coop.* 39:98-99
- Brown, RN and PD Ascher (1994) Is stigma position a species characteristic in *Phaseolus*? *Ann. Rept. Bean Improv. Coop.* 37: 89-90.