

## **E. CHARLES BRUMMER**

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### **Education and Training**

3/93	Ph.D.	University of Georgia, Athens, GA 30602	Agronomy / Plant breeding.
12/89	M.S.	University of Georgia, Athens, GA 30602.	Agronomy / Plant breeding.
5/86	B.S.	Penn State Univ., State College, PA 16802	Agronomy (honors and high distinction).

### **Professional Experience**

2008-present **Director**, Institute of Plant Breeding, Genetics, and Genomics, Univ. of Georgia.  
2006-present **Professor**, Crop and Soil Sciences Department, Univ. of Georgia.  
1994-2006 **Assistant, associate, full professor**, Agronomy Department, Iowa State Univ.  
1993-1994 **Postdoctoral research assistant**, Agronomy Department, Iowa State Univ.  
1989-1993 **Research assistant**, Agronomy Department, Univ. of Georgia.  
1986-1989 **Research assistant**, Agronomy Department, Univ. of Georgia.  
1985-1986 **Independent Study**, Agronomy Department, Pennsylvania State Univ.

### **Additional Professional Experience**

Fellow, Japanese Society for the Promotion of Science, Hokkaido University, Hokkaido, Japan, 24 June–30 July 2007.  
Visiting professor, Department of Primary Industries, Bundoora, Victoria, Australia. 8 Oct.–31 Dec. 2007.  
Visiting professor, AgResearch, Palmerston North, New Zealand. 1 Jan.–29 March 2008.

### **Synergistic Activities**

U.S. Legume Crops Genomics Initiative Vice-Chair, Steering Comm.(elected rep. for forage legumes)  
Crop Science Society of America, Associate Editor, *Crop Science*, 2001-  
*BioEnergy Research*—Editorial board, 2007-  
Alfalfa Crop Germplasm Committee, Member, 1998-; Secretary, 2001-2; Chair, 2002-  
Regional Hatch Project NE-1010: Forage Crop Genetics and Breeding to Improve Yield and Quality

### **Research Focus**

Developing germplasm and cultivars of alfalfa, white clover, tall fescue, and switchgrass for forage and biofuel uses. Developing and testing novel plant breeding methodology. Applying genetic and genomic technologies to improve yield, composition, and grazing, drought, and aluminum tolerances.

### **Awards, Honors, and Recognition**

Young Crop Scientist Award, Crop Science Society of America, 2002  
Raymond and Mary Baker Agronomic Excellence Award, Iowa State University, 2002  
Gerald O. Mott Scholarship, 1992, National award for outstanding graduate student in agronomy

**Recent Publications**—see full list at <http://www.cropsoil.uga.edu/brummer/pubs.htm>

- Brummer, E.C. and M.D. Casler. 2008. Improving selection in forage, turf, and biomass crops using molecular markers. (in press) In T. Yamada and T. Komatsu (eds.) *Molecular breeding of forage and turf*. Springer, New York [in press].
- Casler, M.D. and E.C. Brummer. 2008. Theoretical expected genetic gains for among-and-within-family selection methods in perennial forage crops. *Crop Sci.* [in press].
- Olmstead, J. and E.C. Brummer. 2008. Benefits and barriers to perennial forage crops in Iowa corn and soybean rotations. *Renewable Agric. and Food Systems* [in press].
- Picasso, V.P., E.C. Brummer, M. Liebman, P.M. Dixon, and B.J. Wilsey. 2008. Crop species diversity affects productivity and weed suppression in perennial herbaceous polycultures under
- Brummer, E.C., J.H. Bouton, and M.K. Sledge. 2007. Biotechnology and Molecular Approaches to Forage Improvement. p.439-451. In: C.J. Nelson and K.J. Moore (eds). *Forages: The science of grassland agriculture*. Vol. II. Blackwell, Ames, IA.
- Casler, M.D., K.P. Vogel, C.M. Taliaferro, N.J. Ehlke, J.D. Berdahl, E.C. Brummer, R.L. Kallenbach, C.P. West, and R.B. Mitchell. 2007. Latitudinal and longitudinal adaptation of switchgrass populations. *Crop Sci.* 47:2249-2260.
- Robins, J.G., G.R. Bauchan, and E.C. Brummer. 2007. Genetic mapping forage yield, plant height, and regrowth at multiple harvests in tetraploid alfalfa (*Medicago sativa* L.). *Crop Sci.* 47:11-16.
- Robins, J.G., D. Luth, T.A. Campbell, G.R. Bauchan, C. He, D.R. Viands, J.L. Hansen, and E.C. Brummer. 2007. Mapping biomass production in tetraploid alfalfa (*Medicago sativa* L.). *Crop Sci.* 47:1-10.
- Şakiroğlu, M. and E.C. Brummer. 2007. No heterosis between semidormant and nondormant derived alfalfa germplasm. *Crop Sci.* 47:2364-2371.
- Brummer, E.C. 2006. Breeding for cropping systems. p. 97-106. In K.R. Lamkey and M. Lee (eds.) *Plant Breeding: The Arnel R. Hallauer International Symposium*. Blackwell Press. Ames, IA.
- Brummer, E.C. Grazing tolerant alfalfa cultivars have superior persistence under continuous and rotational stocking. 2006. Online. *Forage and Grazinglands* doi:10.1094/FG-2006-0825-01-RS.
- Castonguay, Y. S. Laberge, E.C. Brummer, and J.J. Volenec. 2006. Alfalfa winter hardiness: A research retrospective and integrated perspective. *Adv. Agron.* 90:203-265.
- Lamb, J.F.S., C.C. Sheaffer, L.H. Rhodes, M. Sulc, D.J. Undersander and E.C. Brummer. 2006. Forage yield and quality of alfalfa cultivars released from the 1940's through the 1990's. *Crop Sci.* 46:902-909.
- Riday, H. and E.C. Brummer. 2006. Persistence and yield stability of intersubspecific alfalfa hybrids. *Crop Sci.* 46:1058-1063.
- Robins, J.G., H. Riday, S.J. Helland, and E.C. Brummer. 2006. Biomass yield stability in alfalfa. *J Iowa Acad Sci* 111:71-75.