

## MARLA DALE HALL

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Department of Crop and Soil Environmental Sciences  
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### EDUCATION

Ph.D., Plant Breeding, August 2006, Kansas State University  
Dissertation: Genetic Characterization and Utilization of Multiple *Aegilops tauschii* Derived Pest Resistance Genes in Wheat

Co-Major Professors: Gina Brown-Guedira and Allan Fritz

Research Synopsis: Molecular mapping of *Septoria tritici* and *Soil-borne Wheat Mosaic Virus* resistance using microsatellite markers, genetic linkage of *H23* and *Cmc4* on chromosome 6DS, potential germplasm release which contains *H23* and *Cmc4* in Jagger background

M.S., Plant and Soil Science, May 2002, University of Kentucky

Thesis: Heritability and Resistance to Fusarium Head Scab (*F. graminearum*) in Soft Red Winter Wheat

Major Professor: Dr. Dave Van Sanford

Research synopsis: Diallel analysis of *F. graminearum* resistance in soft red winter wheat, estimated genetic variance components, heritabilities and combining abilities, compared entry mean and family mean selection

B.S., Plant and Soil Science, May 1998, University of Kentucky

Minor: Pest Management

Graduated Cum Laude

### WORK EXPERIENCE

Post Doctoral Research Assistant, Virginia Polytechnic Institute and State University, Blacksburg, VA, August 2006 to present

Fine-mapping and validation of quantitative trait loci conferring adult plant resistance to powdery mildew, effective collaborations with six cooperating institutions, implemented marker assisted selection to accelerate development of improved cultivars, prepared annual grant progress reports and presentations for the USDA/CSREES Wheat Coordinated Agriculture Project “Wheat Applied Genomics”

Biological Research Science Aid, USDA-ARS Plant Science and Entomology Research Unit, Manhattan, KS, July 2005 to August 2006

Planted and harvested unit's wheat germplasm material, applied greenhouse pesticides, supervised and trained student workers

Graduate Research Assistant, Department of Agronomy, Kansas State University, Manhattan, KS, May 2002 to August 2006

Collaborated with Department of Plant Pathology students and professors; screened germplasm for Hessian fly and wheat curl mite resistance; trained in embryo rescue techniques and molecular biology techniques; selected wheat lines for advancement

Graduate Research Assistant, Department of Agronomy, University of Kentucky, Lexington, KY, May 1999 to May 2002

Assisted with all aspects of wheat breeding program (harvesting, planting, selecting, emasculating, pollinating); evaluated wheat germplasm for powdery mildew, Fusarium head scab, and leaf rust resistance; data analysis and summarization with Microsoft Excel, SAS, and Agrobase

## **PUBLICATIONS**

**Hall, M.D.**, A.K. Fritz, A. Klatt and G. Brown-Guedira. 2007. Genetic Analysis of Resistance to *Soil-borne Wheat Mosaic Virus* Derived from *Aegilops tauschii*. *Euphytica*. In press.

Argyris, J., D. TeKrony, D. Hershman, D. Van Sanford, **M. Hall**, B. Kennedy, M. Rucker, and C. Edge. 2005. Fusarium Head Blight Infection following Point Inoculation in the Greenhouse Compared with Movement of *Fusarium graminearum* in Seed and Floral Components. *Crop Sci.* 45:626-634.

**Hall, M.D.** and D. A. Van Sanford. 2003. Diallel Analysis of Fusarium Head Blight Resistance in Soft Red Winter Wheat. *Crop Sci.* 43:1663-1670.

## **SELECTED MEETING PROCEEDINGS**

**Hall, M.D.**, W.W. Bockus, A.K. Fritz, and G.L. Brown-Guedira. Mapping Septoria Leaf Blotch and Soil-borne Mosaic Virus Resistance Genes Derived from *Aegilops tauschii*. Plant and Animal Genome XV Conference. 13-17 January 2007. San Diego, CA.

**Hall, M. D.**, J. Chen, and C. Griffey. Mapping Adult Plant Resistance to Powdery Mildew in Soft Red Winter Wheat. Eastern Wheat Workers and Southern Small Grain Workers Conference. 15-18 April 2007. Tallahassee, FL.

**Hall, M. D.**, G. Brown-Guedira, M. S. Chen, T. Harvey. Linkage Analysis of Pest Resistance Genes Derived from *Aegilops tauschii*. American Society of Agronomy National Meeting, 3 November 2004, Seattle, WA.

**Hall, M. D.**, B. Kennedy, L. Hua, and D.A. Van Sanford. Diallel Analysis of Resistance to Fusarium Head Blight in Soft Red Winter Wheat, American Society of Agronomy National Meeting, November 2001, Charlotte, NC.

## **TEACHING EXPERIENCE**

Crop Improvement Journal Club, Virginia Polytechnic Institute and State University, Fall 2007

Guest Lecturer, AGRON 610 “Introduction to Crop Improvement”, Kansas State University, Spring 2004

Tutor, PLS 104 “Plant, Food, and People”, University of Kentucky College of Agriculture, Fall 1999

### **HONORS, AWARDS, AND GRANTS**

Virginia Small Grains Board \$12,000 Grant entitled “Marker Assisted Breeding to Develop Superior Wheat Cultivars”, 2007

Kansas State University Gerald O. Mott Graduate Student Award Representative, 2006

Kansas State University Graduate Student Council \$200 Student Travel Award, 2005

Participant in US Visiting Fusarium Scientists to CIMMYT, 2000

### **PROFESSIONAL AFFILIATIONS**

American Society of Agronomy  
Crop Science Society of America  
Gamma Sigma Delta National Agriculture Honorary