

# George F. Heine Jr.

## **Current Address:**

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## **Education**

**2001-present**

**The Ohio State University** Columbus, OH  
Ph.D. Student in the Department of Plant Cellular and Molecular Biology

**2000-2001**

**The Pennsylvania State University** State College, PA  
Ph.D. Student in the Department of Biochemistry, Microbiology, and Molecular Biology

**1996-2000**

**Oklahoma State University** Stillwater, OK  
Bachelor of Science in Botany

**1995-1996**

**Westark College** Fort Smith, AR

## **Publications**

**Heine G.F.**, Hernandez M.J., and Grotewold E. (2004) Two cysteines in plant R2R3 MYB domains participate in REDOX-dependent DNA binding. *J. Biol. Chem.*, **279**: 37878–37885.

Hernandez MJ, **Heine G**, Irani NG, Feller A, Kim M-G, Matulnik T, Chandler VL, Grotewold E (2004) Mechanisms of cooperation between MYB and HLH transcription factors in the regulation of anthocyanin pigmentation. *J. Biol. Chem.* **279**: 48205-48213

## **Research**

### **Presentations**

REDOX-dependent DNA-binding of R2R3 MYB transcription factors.

**Heine, G.F.** and Grotewold, E. 2004. American Society for Biochemistry and Molecular Biology, Redox Signaling in Biology and Disease. Kiawah Island, South Carolina. (Poster)

Functional Characterization of Evolutionary Conserved MYB Domain Residues Using P1 as a Model

**Heine, G.F.** and Grotewold, E. 2004 Annual meeting of The American Society of Plant Biologists. Orlando, Florida (Poster)

Functional Characterization of Evolutionary Conserved MYB Domain Residues Using P1 as a Model

**Heine, G.F.** and Grotewold, E. 2004

46<sup>th</sup> Annual Maize Genetics Conference. Mexico City, Mexico (Poster)

Functional Significance of the Evolutionary Steps that Shaped the R2R3 Myb Gene Family.

**Heine, G.F.**, Dias, A.P., and Grotewold, E. 2003

45<sup>th</sup> Annual Maize Genetics Conference. Lake Geneva, Wisconsin (Poster)

Functional Significance of the Evolutionary Steps that Shaped the R2R3 Myb Gene Family.

**Heine, G.F.**, Dias, A.P., and Grotewold, E. 2003 6th Annual Plant Molecular Biology and Biotechnology Research Symposium. The Ohio State University, Columbus, Ohio (Poster)

### **Financial Support and Awards**

**2004**

Annual meeting of The American Society of Plant Biologists  
Financial aid award

**2005**

46<sup>th</sup> Annual Maize Genetics Conference Financial aid award

**2004**

45<sup>th</sup> Annual Maize Genetics Conference Financial aid award

### **Research Experience**

**Present**

#### **Graduate Research Assistant**

The Ohio State University  
Dr. Erich Grotewold Ph.D. advisor

**2000**

#### **Undergraduate Research Project**

Oklahoma State University  
Effects of Salinity on *Nannochloris* sp.

**1999**

#### **Undergraduate Research Project**

Oklahoma State University  
Isolation of Cyanobacteria from the Salt Plains National Wildlife Refuge

- 1999**                    **Undergraduate Research Assistant**  
Oklahoma State University  
Major duties included planting, plating and screening seeds
- 1998-1999**            **Betty and Richard Speirs Jr. Fellowship**  
Oklahoma State University  
Major duties included herbarium based curatorial, identification, and editorial activities
- 1997**                    **Undergraduate Research Assistant**  
City of Fort Smith  
Major duties included assisting the lead Aquatic Biologist in activities such as watershed management, water quality and macroinvertebrate population analysis

**Teaching**  
**Experience**

- 2001-2003**            **Department of Plant Biology**  
The Ohio State University  
Introductory Plant Biology lecture
- 2001-2003**            **Department of Plant Biology**  
The Ohio State University  
Introductory Plant Biology lab
- 2001**                    **Department of Biochemistry, Microbiology, and Molecular Biology**  
The Pennsylvania State University  
Introductory Microbiology lab
- 1999-2001**            **Department of Botany**  
Oklahoma State University  
Introductory Biology lab

**Committees and**  
**Service**

- 2004-2005**            President of Graduate Student Association for the Department of Plant Cellular and Molecular Biology
- 2003**                    Graduate Studies Committee for the Department of Plant Cellular and Molecular Biology
- 2002**                    Diversity Committee for the College Of Biological Sciences
- 2002**                    Research Committee for the Department of Plant Cellular and Molecular Biology