

## Sclerotinia Initiative Funded Projects – 2009

### **Evaluation of Wild *Helianthus* Species for Resistance to *Sclerotinia* Stalk Rot**

Charles C. Block  
USDA-ARS, Ames, IA  
2009 – \$17,427

### **Genetic Resistance to White Mold Derived from Multiple Sources of Common Bean and Scarlet Runner Bean**

Mark Brick  
Colorado State University, Ft. Collins, CO  
2009 – \$29,422

### **Variation in Pathogenicity and Fungicide Sensitivity in Relation to Variation of Neutral Markers of *Sclerotinia sclerotiorum***

Weidong Chen  
USDA-ARS, Pullman, WA  
2009 – \$66,268

### **Searching for Resistance Sources to *Sclerotinia* in Wild Relatives of Cool Season Grain Legumes**

Weidong Chen  
USDA-ARS, Pullman WA  
2009 – \$60,000

### **Identification and Functional Analysis of Candidate Defense-related Genes to *Sclerotinia sclerotiorum* in Soybean and *Arabidopsis***

Steven J. Clough  
USDA-ARS, Urbana, IL  
2009 – \$71,599

### **Defining Critical Environmental and Biological Parameters Needed to Develop *Sclerotinia* Stem Rot on Canola**

Luis del Rio  
North Dakota State University, Fargo, ND  
2009 – \$26,580

### **Evaluation of Fungicide Alternatives for Control of *Sclerotinia* Stem Rot of Canola**

Luis del Rio  
North Dakota State University, Fargo, ND  
2009 – \$26,411

**Use of a Transformation System in Sunflower for *Sclerotinia* Resistance Studies**

John J. Finan  
Ohio State University, Wooster, OH  
2009 – \$50,000

**Candidate Genes for Fungal Resistance: Mapping and SNP Development for LysM-domain Encoding Genes in Soybean**

George Graef  
University of Nebraska, Lincoln, NE  
2008 – \$76,840

**2009 Uniform Sunflower Germplasm Evaluation for Resistance to *Sclerotinia* Head Rot in Minnesota**

Charla R. Hollingsworth  
University of Minnesota, Crookston, MN  
2009 – \$18,000

**Pyramiding *Sclerotinia* Head Rot and Stalk Rot Resistances into Elite Sunflower Breeding Lines With the Aid of DNA Markers**

Brent Hulke  
USDA-ARS, Fargo, ND  
2009 – \$85,000

**Transferring *Sclerotinia* Resistance Genes from Wild *Helianthus* Species into Cultivated Sunflower**

Chao-Chien Jan  
USDA-ARS, Fargo, ND  
2009 – \$102,000

**Identification of QTL for White Mold Resistance in Pinto Bean**

James D. Kelly  
Michigan State University, East Lansing, MI  
2008 – \$34,396

**Characterization of the Genetic Basis for Partial Resistance to *Sclerotinia sclerotiorum* in Pea**

Kevin McPhee  
USDA-ARS, Pullman, WA  
2009 – \$60,250

**Identification of Defense-response Genes Conferring Partial Resistance to White Mold in Dry Bean**

Phillip N. Miklas  
USDA-ARS, Prosser, WA  
2009 – \$75,000

**Contribution of Partial Genetic Resistance to White Mold Disease Management in Pinto and Great Northern Beans**

Phillip N. Miklas  
USDA-ARS, Prosser, WA  
2009 – \$12,000

**Transfer and Characterization of White Mold Resistance From *P. coccineus* into *P. vulgaris***

James R. Myers  
Oregon State University, Corvallis, OR  
2009 – \$55,210

**Genetic Variation and Virulence of *S. sclerotiorum* on Six Crops in the North Central Region**

Berlin D. Nelson  
North Dakota State University, Fargo, ND  
2009 – \$59,490

**Expression Profiling of the Pea-*Sclerotinia sclerotiorum* Interaction for Genomics-assisted Breeding**

Martin Chilvers  
Michigan State University,  
2009 – \$55,426

**The Requirement for Oxalate During Pathogenesis on Multiple Crops**

Jeffrey Rollins  
University of Florida, Gainesville, FL  
2009 – \$18,400

**Evaluation of Sunflower Hybrids and Germplasm for Resistance to *Sclerotinia***

Blaine G. Schatz  
North Dakota State University, Carrington, ND  
2009 – \$72,500

**On-farm Validation of Cultural Practice Adjustments to Improve White Mold Management in Dry Bean Irrigation Systems**

Howard Schwartz  
Colorado State University, Fort Collins, CO  
2009 – \$42,538

**Introgressing White Mold Resistance from the Secondary Gene Pool of common bean**

Shree P. Singh  
University of Idaho, Moscow, ID  
2009 – \$59,404

**Improved Resistance in Common Bean Through Multi-site Screening and Pathogen Characterization Throughout Major Production Areas**

James R. Steadman

University of Nebraska-Lincoln, Lincoln, NE

2009 – \$51,550

**Identifying Molecular Markers Linked in Lentil (*Lens culinaris Medik.*) to White Mold Resistance Derived From the Lentil Cultivar Pennell**

George Vandemark

USDA-ARS, Pullman, WA

2009 – \$57,920

**Enhancing Soybean for Resistance to *Sclerotinia* Stem Rot**

Dechun Wang

Michigan State University, East Lansing, MI

2009 – \$40,001

**Discovery of Novel Sources of Resistance to Head Rot and Stalk Rot in Cultivated Sunflower and Wild *Helianthus***

Tom Gulya

USDA-ARS, Fargo, ND

2009 – \$67,847

**Identification of Novel Loci for Resistance to *Sclerotinia* Stem Rot in Perennial Soybean Accessions**

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USDA-ARS,

2009 – \$78,000