

Sclerotinia Initiative Funded Projects – 2008

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

Charles C. Block
USDA-ARS, Ames, IA
2008 – \$13,140

Mapping QTL for White Mold Resistance in an Interspecific Dry Bean Backcross Population

Mark Brick
Colorado State University, Ft. Collins, CO
2008 – \$11,721

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

Weidong Chen
USDA-ARS, Pullman, WA
\$61,384

Identifying Virulence Factors of *Sclerotinia sclerotiorum* Through Insertional Mutagenesis

Weidong Chen
USDA-ARS, Pullman WA
2008 – \$57,000

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

Steven J. Clough
USDA-ARS, Urbana, IL
2008 – \$71,399

Characterization of the Reaction of Herbicide-tolerant, Non herbicide-tolerant and Double Haploid Canola Lines to *Sclerotinia sclerotiorum*

Luis del Rio
North Dakota State University, Fargo, ND
2008 – \$61,982

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

Luis del Rio
North Dakota State University, Fargo, ND
2008 – \$21,000

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

Luis del Rio
North Dakota State University, Fargo, ND
2008 – \$26,532

Developing a Disease-warning System for *Sclerotinia* Stem Rot on Canola

Luis del Rio
North Dakota State University, Fargo, ND
2008 – \$45,376

Development of a Transformation System in Sunflower for *Sclerotinia* Resistance Via Direct Gene Transfer and Reverse Genetics Approaches

John J. Finer
Ohio State University, Wooster, OH
\$49,830

***Sclerotinia* Resistance Enhanced by Accumulation of QTL and Transgenic Approaches**

George Graef
University of Nebraska, Lincoln, NE
2008 – \$39,750

2008 Uniform Sunflower Germplasm Evaluation for Resistance to *Sclerotinia* Head Rot in Minnesota

Charla R. Hollingsworth
University of Minnesota, Crookston, MN
2008 – \$19,395

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
2008 – \$85,000

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

Chao-Chien Jan
USDA-ARS, Fargo, ND
\$148,119

Identification of QTL for White Mold Resistance in Pinto Bean

James D. Kelly
Michigan State University, East Lansing, MI
2008 – \$34,000

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

Kevin McPhee
USDA-ARS, Pullman, WA
2008 – \$50,000

Improved Resistance to *S. sclerotiorum* in Pea and Lentil Through Breeding and Biotechnology

Kevin McPhee
USDA-ARS, Pullman, WA
2008 – \$63,240

Genetic Characterization of Scarlet-runner Bean Derived Resistance to White Mold in Common Bean

Phillip N. Miklas
USDA-ARS, Prosser, WA
2008 – \$78,000

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

Phillip N. Miklas
USDA-ARS, Prosser, WA
2008 – \$12,000

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

James R. Myers
Oregon State University, Corvallis, OR
2008 – \$56,626

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

Berlin D. Nelson
North Dakota State University, Fargo, ND
2008 – \$50,000

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

Tobin Peever
Washington State University, Pullman, WA
2008 – \$53,000

The Requirement for Oxalate During Pathogenesis on Multiple Crops

Jeffrey Rollins
University of Florida, Gainesville, FL
2008 – \$13,400

Screening of Sunflower for Resistance to *Sclerotinia* Head Rot

Blaine G. Schatz
North Dakota State University, Carrington, ND
2008 – \$72,500

Cultivar, Plant Spacing and Fungicide Effects Upon White Mold Management in Dry Bean

Howard Schwartz
Colorado State University, Fort Collins, CO
2008 – \$42,538

Introgressing White Mold Resistance from the Secondary Gene Pool of Common Bean

Shree P. Singh
University of Idaho, Moscow, ID
2008 – \$25,000

Gametic-recurrent Selection for Simultaneously Pyramiding and Introgressing White Mold Resistance from *Phaseolus* Species into Pinto Bean

Shree P. Singh
University of Idaho, Moscow, ID
2008 – \$50,000

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
2008 – \$55,000

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
2008 – \$70,000

Enhancing Soybean for Resistance to *Sclerotinia* Stem Rot

Dechun Wang
Michigan State University, East Lansing, MI
2008 – \$38,418