

Sclerotinia Initiative Funded Projects – 2011

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

Charles C. Block
USDA-ARS, Ames, IA
2011 – \$14,029

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

Weidong Chen
USDA-ARS, Pullman, WA
2011 – \$55,000

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

Weidong Chen
USDA-ARS, Pullman, WA
2011 – \$60,000

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

Martin Chilvers
Michigan State University, East Lansing, MI
2011 – \$58,044

Functional Verification of Candidate Defense-Related Genes in *Sclerotinia sclerotiorum* in Soybean & Arabidopsis

Steven J. Clough
USDA-ARS, Urbana, IL
2011 – \$84,512

Development of Canola Breeding Populations and Identification of Herbicide-Tolerant Breeding Lines with Resistance to *Sclerotinia sclerotiorum*

Luis del Rio
North Dakota State University, Fargo, ND
2011 – \$72,973

Optimizing Management of Sclerotinia Stem Rot of Canola through Fungicide Use

Luis del Rio
North Dakota State University, Fargo, ND
2011 – \$37,370

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

Leslie L. Domier
USDA-ARS, Urbana, IL
2011 – \$45,000

Use of Transformation System in Sunflower for Sclerotinia Resistance Studies

John J. Finan
The Ohio State University, Wooster, OH

2011 – \$46,325

Identification of Resistance and Pathogenicity Genes Associated with *Sclerotinia sclerotiorum* Infection Using Next-Generation Sequencing

Rubella S. Goswami

North Dakota State University, Fargo, ND

2011 – \$60,306

eQTL Analysis in Soybean Populations to Elucidate Genetic Architecture of Host Response to Infection by *Sclerotinia sclerotiorum*

Georg L. Graef

University of Nebraska, Lincoln, NE

2011 – \$69,096

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

Tom Gulya

USDA-ARS, Fargo, ND

2011 – \$78,699

Fine Mapping of Quantitative Resistance Genes to *Sclerotinia* Stem Rot in Two Soybean Populations

Glen L. Hartman

USDA-ARS, Urbana, IL

2011 – \$33,250

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

Chao-Chien Jan

USDA-ARS, Fargo, ND

2011 – \$119,700

Identification and Validation of QTL for White Mold Resistance in Pinto Bean

James D. Kelly

Michigan State University, East Lansing, MI

2011 – \$34,896

Evaluation of Fungicides for Control of *Sclerotinia* Head Rot of Sunflower and Determination of Yield Impacts

Samuel G. Markell

North Dakota State University, Fargo ND

2011 – \$10,000

White Mold Resistance-QTL: Identification, Interactions and Fine Mapping in Common Bean

Phillip McClean

North Dakota State University, Fargo, ND

2011 – \$49,400

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

Kevin McPhee

North Dakota State University, Fargo, ND

2011 – \$33,222

White Mold Resistance-QTL: Identification, Interactions and Fine Mapping in Common Bean

Phillip N. Miklas

USDA-ARS, Prosser, WA

2011 – \$57,000

White Mold Resistance-QTL: Identification, Interactions and Fine Mapping in Common Bean

James R. Myers

Oregon State University, Corvallis, OR

2011 – \$47,696

Genetic Variation and Virulence of *S. sclerotiorum* in the United States

Berlin D. Nelson

North Dakota State University, Fargo, ND

2011 – \$42,000

Inheritance Studies of New Potential sources of Resistance to White Mold in Dry Bean

Juan M. Osorno

North Dakota State University, Fargo, ND

2011 – \$10,000

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

Lyndon Porter

USDA-ARS, Prosser, WA

2011 – \$14,212

Deployment of Novel Sources of Sclerotinia Resistance and tools for Breeding Resistance in Sunflower

Lili Qi

USDA-ARS, Fargo, ND

2011 – \$109,250

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

2011 – \$42,092

Evaluation of Sunflower Hybrids for Resistance to Sclerotinia Head Rot

Albert L. Sims

University of Minnesota, Crookston, MN

2011 – \$11,401

Improved White Mold Resistance in Dry and Snap Beans through Multi-Site Screening and Pathogen Characterization throughout Major Production Areas

James R. Steadman

University of Nebraska, Lincoln, NE

2011 – \$60,202

Expression of the Oxalate Oxidase Gene in Transgenic Lentils and Evaluation of Transgenic Plants for Resistance to *Sclerotinia sclerotiorum*

George Vandemark

USDA-ARS, Pullman, WA

2011 – \$40,850

Evaluation of Sunflower Hybrids for Resistance to Sclerotinia Head Rot

Michael J. Wunsch

North Dakota State University, Carrington, ND

2011 – \$59,455