

Sclerotinia Initiative Funded Projects – 2010

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

Charles C. Block
USDA-ARS, Ames, IA
2010 - \$10,017

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

Weidong Chen
USDA-ARS, Pullman, WA
2010 - \$73,912

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

Weidong Chen
USDA-ARS, Pullman, WA
2010 - \$79,716

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

Martin Chilvers
Michigan State University, East Lansing, MI
2010 - \$63,870

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

Steven J. Clough
USDA-ARS, Urbana, IL
2010 - \$66,099

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

Luis del Rio
North Dakota State University, Fargo, ND
2010 - \$33,598

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
2010 - \$66,955

Optimizing Management of Sclerotinia Diseases through Fungicide Use

Luis del Rio
North Dakota State University, Fargo, ND
2010 - \$45,112

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

Rubella S. Goswami

North Dakota State University, Fargo, ND
2010 - \$65,100

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

Tom Gulya
USDA-ARS, Fargo, ND
2010 - \$85,762

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

Glen L. Hartman
USDA-ARS, Urbana, IL
2010 - \$62,500

Evaluation of Sunflower Hybrids and Germplasm for Resistance to Sclerotinia

Carlyle D. Holen
University of Minnesota, Crookston, MN
2010 - \$12,000

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
2010 - \$105,000

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

Chao-Chien Jan
USDA-ARS, Fargo, ND
2010 - \$106,000

Identification of QTL for White Mold Resistance in Pinto Bean

James D. Kelly
Michigan State University, East Lansing, MI
2010 - \$34,396

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

Phillip McClean
North Dakota State University, Fargo, ND
2010 - \$50,000

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

Kevin McPhee
North Dakota State University, Fargo, ND
2010 - \$39,270

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

Phillip N. Miklas
USDA-ARS, Prosser, WA
2010 - \$62,500

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

James R. Myers
Oregon State University, Corvallis, OR
2010 - \$50,000

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

Berlin D. Nelson
North Dakota State University, Fargo, ND
2010 - \$60,500

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

Lyndon Porter
USDA-ARS, Prosser, WA
2010 - \$14,960

Evaluation of Sunflower Hybrids and Germplasm for Resistance to Sclerotinia

Blaine G. Schatz
North Dakota State University, Carrington, ND
2010 - \$69,125

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
2010 - \$38,000

Gamete Selection for Simultaneously Pyramiding and Introgressing White Mold Resistance from *Phaseolus* Species into Pinto Beans

Shree P. Singh
University of Idaho, Moscow, ID
2010 - \$40,000

Improved Resistance in Common Bean through Multi-Site Screening and Pathogen Characterization Throughout Major Production Areas

James R. Steadman
University of Nebraska, Lincoln, NE
2010 - \$56,684

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
2010 - \$43,000

Enhancing Soybean for Resistance to Sclerotinia Stem Rot

Dechun Wang
Michigan State University, East Lansing, MI
2010 - \$41,601

