

Sclerotinia Initiative Funded Projects – 2007

Genetics & Mapping of Resistance to *Sclerotinia* White Mold in Lentil

Weidong Chen
USDA-ARS, Pullman, WA
2007 - \$61,384

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

Phil Miklas
USDA-ARS, Prosser, WA
2007 - \$70,000

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

Kevin McPhee
USDA-ARS, Pullman, WA
2007 - \$65,000

Development of Sunflower Germplasm with *Sclerotinia* Head Rot and Stalk Resistance

Tom Gulya
USDA-ARS, Fargo, ND
2007 - \$109,473

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

Charlie Block
USDA-ARS, Ames, IA
2007 - \$31,901

Development of *Sclerotinia* Resistant Germplasm Utilizing Wild *Helianthus* Species

C. C. Jan
USDA-ARS, Fargo, ND
2007 \$130,000

Map the Quantitative Trait Loci Responsible for *Sclerotinia* Tolerance in Two Sunflower F2 Populations

Jinguo Hu
USDA-ARS, Fargo, ND
2007 - \$75,000

Identify Virulence Factors of *Sclerotinia sclerotiorum* through Insertional Mutagenesis

Weidong Chen
USDA-ARS, Pullman, WA
2007 - \$57,000

Screening of the Pisum Core Collection and Woody-Stem Selections for Resistance to White Mold

Lyndon Porter
USDA-ARS, Prosser, WA
2007 - \$19,200

Identification & Functional Analysis of Candidate Defense-Related Genes to *Sclerotinia sclerotiorum* in Soybean & Arabidopsis

Steve Clough
USDA-ARS, Urbana, IL
2007 - \$69,999

Contribution of Partial Genetic Resistance to White Mold Disease Management in Pinto Bean

Phil Miklas
USDA-ARS, Prosser, WA
2007 - \$12,000

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

Shree Singh
Univ. of Idaho, Moscow, ID
2007 - \$50,000

Development of Technological Advancement of *Sclerotinia* Management

Ken Grafton
North Dakota State Univ., Fargo, ND
2007 - \$17,000

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

George Graef - PI
Univ. of Nebraska, Lincoln, NE
2007 - \$71,727

Mechanisms and Transfer of *Sclerotinia* Resistance from Scarlet Runner to Common Bean

James Myers - PI
Oregon State Univ., Corvallis, OR
2007 - \$45,770

Resistance Improvement of Bean through Multi-site Screening and Pathogen Characterization

Jim Steadman - PI
Univ. of Nebraska, Lincoln, NE
2007 - \$50,000

Sunflower Head Rot Screening Nursery

Blaine Schatz – PI
North Dakota State Univ., Carrington, ND
2007 - \$98,000

Epidemiological Studies on *Sclerotinia* Stem Rot of Canola

Luis del Rio – PI
North Dakota State Univ., Fargo, ND
2007 - \$26,532

Characterization of New *Brassica napus* – and Identification of New *B. rapa* – Plant Introductions as Sources of Resistance to *Sclerotinia sclerotiorum*

Luis del Rio – PI
North Dakota State Univ., Fargo, ND
2007 - \$98,342

Optimizing Chemical Control of *Sclerotinia* Stem Rot on Canola

Luis del Rio – PI
North Dakota State Univ., Fargo, ND
2007 - \$19,724

Cultivar Selection and Fungicide by Isolate Origin Effects Upon White Mold Management in Dry Bean

Howard Schwartz – PI
Colorado State Univ., Ft. Collins, CO
2007 - \$35,000

Unraveling the Genetics of Resistance in Soybean to *Sclerotinia sclerotiorum* Using Multiple Evaluation Criteria

Craig Grau – PI
Univ. of Wisconsin, Madison, WI
2007 - \$33,000

Sequencing of Expressed Sequence Tags of *Sclerotinia sclerotiorum* and *Pisum sativum*

Tobin Peever – PI
Washington State Univ., Pullman, WA
2007 - \$53,000

Developing a Disease-Warning System for *Sclerotinia* Stem Rot of Canola

Luis del Rio – PI
North Dakota State Univ., Fargo, ND
2007 - \$67,811

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

Mark Brick – PI
Colorado State University, Ft. Collins, CO
2007 - \$30,878

2007 Sunflower Germplasm Evaluation for Resistance to *Sclerotinia* Head Rot in MN

Charla Hollingsworth – PI
University of MN, Crookston, MN
2007 - \$15,000

Identification QTL for White Mold Resistance in Two Pinto Bean Mapping Populations

James Kelly – PI
2007 - \$30,000

Genetic Mechanisms of Resistance to *Sclerotinia sclerotiorum*

Henrik Stotz
Oregon State University, Corvallis, OR
2007 - \$30,000

Enhancing Soybean for Resistance to *Sclerotinia* Stem Rot

Dechun Wang – PI
Michigan State University, E. Lansing, MI
2007 - \$30,000