

Sclerotinia Initiative Funded Projects – 2012

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

Charles C. Block
USDA-ARS, Ames, IA
2012 – \$13,493

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

Weidong Chen
USDA-ARS, Pullman, WA
2012 – \$52,897

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

Martin Chilvers
Michigan State University, East Lansing, MI
2012 – \$55,824

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

Steven J. Clough
USDA-ARS, Urbana, IL
2012 – \$65,400

5. Development and Evaluation of Canola Breeding Populations for Resistance to *Sclerotinia sclerotiorum*

Luis del Rio
North Dakota State University, Fargo, ND
2012 – \$68,783

6. Managing Sclerotinia Stem Rot of Canola with Fungicides

Luis del Rio
North Dakota State University, Fargo, ND
2012 – \$35,941

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

Luis del Rio
North Dakota State University, Fargo, ND
2012 – \$58,000

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

Leslie L. Domier
USDA-ARS, Urbana, IL
2012 – \$28,853

9. 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
2012 – \$66,454

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

Thomas J. Gulya
USDA-ARS, Fargo, ND
2012 – \$75,689

11. Facilitating Management of Sclerotinia Head Rot of Sunflowers through Screening Hybrids for Resistance and Evaluating Fungicides as Efficacy

Robert M. Harveson
University of Nebraska, Scottsbluff, NE
2012 – \$10,000

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

Chao-Chien Jan
USDA-ARS, Fargo, ND
2012 – \$115,123

13. Pyramiding QTL for White Mold Resistance into Mesoamerican Beans

James D. Kelly
Michigan State University, East Lansing, MI
2012 – \$34,667

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

Phillip McClean
North Dakota State University, Fargo, ND
2012 – \$47,512

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

Phillip N. Miklas
USDA-ARS, Prosser, WA
2012 – \$57,319

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

James R. Myers
Oregon State University, Corvallis, OR
2012 – \$45,872

17. Deployment of Novel Sources of Sclerotinia Resistance and Tools for Breeding Resistance in Sunflower

Lili Qi
USDA-ARS, Fargo, ND
2012 – \$105,072

18. 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
2012 – \$55,400

19. Enhancing Soybean for Resistance to Sclerotinia Stem Rot

Dechun Wang
Michigan State University, East Lansing, MI
2012 – \$38,970

20. Facilitating Management of Sclerotinia Head Rot of Sunflowers through Screening Hybrids for Resistance and Evaluating Fungicides as Efficacy

Michael J. Wunsch
North Dakota State University, Carrington, ND
2012 – \$55,880