

Sclerotinia Initiative Funded Projects – 2013

1. Comparative Transcriptomics of *Sclerotinia sclerotiorum* Infecting Grain Legumes for Genomics Assisted Breeding

Weidong Chen
USDA-ARS, Pullman, WA
2013 – \$75,014

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

Martin Chilvers
Michigan State University, East Lansing, MI
2013 – \$50,000

3. Identifying and Verifying Genes for Defense to Sclerotinia

Steven J. Clough
USDA-ARS, Urbana, IL
2013 – \$89,929

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

Luis del Rio
North Dakota State University, Fargo, ND
2013 – \$68,013

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

Luis del Rio
North Dakota State University, Fargo, ND
2013 – \$69,160

6. Fine Mapping of Loci for Resistance to Sclerotinia Stem Rot in the Wild Perennial *Glycine latifolia*

Leslie L. Domier
USDA-ARS, Urbana, IL
2013 – \$34,500

7. Use of a Transformation System in Sunflower for Sclerotinia Resistance Studies

John J. Finer
The Ohio State University, Wooster, OH
2013 – \$48,201

8. 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
2013 – \$79,915

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

Robert M. Harveson
University of Nebraska, Scottsbluff, NE
2013 – \$10,000

10. Characterization of Growth, Pathogenicity, and Apothecial Development of *Sclerotinia sclerotiorum* Isolates from Different Geographic Regions in Contrasting Temperature Regimes

Glen L. Hartman
USDA-ARS, Urbana, IL
2013 – \$30,000

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

Chao-Chien Jan
USDA-ARS, Fargo, ND
2013 – \$149,400

12. Pyramiding QTL for White Mold Resistance into Mesoamerican Beans

James D. Kelly
Michigan State University, East Lansing, MI
2013 – \$33,788

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

Phillip McClean
North Dakota State University, Fargo, ND
2013 – \$52,000

14. Characterization and Validation of Two Distinct Mechanisms for Partial Resistance to *Sclerotinia sclerotiorum* in Pea

Kevin McPhee
North Dakota State University, Fargo, ND
2013 – \$85,140

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

Phillip N. Miklas
USDA-ARS, Prosser, WA
2013 – \$62,500
16. White Mold Resistance-QTL: Identification, Interactions, and Fine Mapping in Common Bean

James R. Myers
Oregon State University, Corvallis, OR
2013 – \$50,206
17. High Density Genotyping of a Diverse Population of *Sclerotinia sclerotiorum*

Berlin D. Nelson, Jr.
North Dakota State University, Fargo, ND
2013 – \$55,250
18. Deployment of Novel Sources of Sclerotinia Resistance and Tools for Breeding Resistance in Sunflower

Lili Qi
USDA-ARS, Fargo, ND
2013 – \$139,350
19. Synergistic Enhancement of Resistance to *Sclerotinia sclerotiorum*

Jeffrey Rollins
University of Florida, Gainesville, FL
2013 – \$52,672
20. 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
2013 – \$56,553
21. Enhancing Soybean for Resistance to Sclerotinia Stem Rot

Dechun Wang
Michigan State University, East Lansing, MI
2013 – \$41,934
22. Facilitating Management of Sclerotinia Head Rot of Sunflowers through Screening Hybrids for Resistance and Evaluating Fungicides for Efficacy

Michael J. Wunsch
North Dakota State University, Carrington, ND
2013 – \$44,000