

## Sclerotinia Initiative Funded Projects – 2014

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

Weidong Chen  
USDA-ARS, Pullman, WA  
2014 – \$50,365

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

Martin Chilvers  
Michigan State University, East Lansing, MI  
2014 – \$48,638

3. Identifying and Verifying Genes for Defense to Sclerotinia

Steven J. Clough  
USDA-ARS, Urbana, IL  
2014 – \$89,929

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

Luis del Rio  
North Dakota State University, Fargo, ND  
2014 – \$38,413

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  
2014 – \$62,347

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

Leslie L. Domier  
USDA-ARS, Urbana, IL  
2014 – \$28,000

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

John J. Finer  
The Ohio State University, Wooster, OH  
2014 – \$46,888

8. Evaluation of Native and Non-native Phytoalexins in Suppressing *In Vitro*, *In Vivo* and *In Planta* Growth of *Sclerotinia sclerotiorum*

Glen L. Hartman  
USDA-ARS, Urbana, IL  
2014 – \$30,000

9. Using Genomic Selection to Optimize Prediction of Sclerotinia and Agronomic Phenotypes for More Efficient Breeding

Brent S. Hulke  
USDA-ARS, Fargo, ND  
2014 – \$89,049

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

Chao-Chien Jan  
USDA-ARS, Fargo, ND  
2014 – \$42,783

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

Phillip McClean  
North Dakota State University, Fargo, ND  
2014 – \$53,502

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

Kevin McPhee  
North Dakota State University, Fargo, ND  
2014 – \$53,503

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

Phillip N. Miklas  
USDA-ARS, Prosser, WA  
2014 – \$62,000

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

James Myers  
Oregon State University, Corvallis, OR  
2014 – \$48,839

15. High Density Genotyping of a Diverse Population of *Sclerotinia sclerotiorum*

Berlin D. Nelson, Jr.  
North Dakota State University, Fargo, ND  
2014 – \$53,745

16. Identification of Major Genes-QTL for Sclerotinia Resistance in Cultivated Sunflower and Wild *Helianthus*

Lili Qi  
USDA-ARS, Fargo, ND  
2014 – \$25,000

17. Synergistic Enhancement of Resistance to *Sclerotinia sclerotiorum*

Jeffrey Rollins  
University of Florida, Gainesville, FL  
2014 – \$51,237

18. Discovery and Use of Novel Sources of Head and Stalk Rot Resistance in Sunflower and Studies of Asteracea Genera Stimulating Myceliogenic Germination

Gerald J. Seiler  
USDA-ARS, Fargo, ND  
2014 – \$78,454

19. 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  
2014 – \$47,180

20. Enhancing Soybean for Resistance to Sclerotinia Stem Rot

Dechun Wang  
Michigan State University, East Lansing, MI  
2014 – \$40,792

21. Improved Head Rot Resistance Screening in Sunflowers and Impacts and implications of Sclerotinia Infection Timing in Dry Bean, Soybean, and Sunflower

Michael J. Wunsch  
North Dakota State University, Carrington, ND  
2014 – \$52,529