

Sclerotinia Initiative Funded Projects – 2015

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

Martin Chilvers
Michigan State University, East Lansing, MI
\$50,176

2. Identifying and Verifying Genes for Defense to Sclerotinia

Steven J. Clough
USDA-ARS, Urbana, IL
\$87,665

3. Characterizing Resistance and Pathogenicity Genes Associated with Infection of *B. napus* by *S. sclerotiorum*

Luis del Rio
North Dakota State University, Fargo, ND
\$67,731

4. Using Genomic Selection to Optimize Prediction of Sclerotinia and Agronomic Phenotypes for more Efficient Breeding

Brent S. Hulke
USDA-ARS, Fargo, ND
\$59,898

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

Chao-Chien Jan
USDA-ARS, Fargo, ND
\$148,730

6. Validating QTL for White Mold Resistance in Mesoamerican Beans

James D. Kelly
Michigan State University, East Lansing, MI
\$34,077

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

Phil McClean
North Dakota State University, Fargo, ND
\$54,281

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

Kevin McPhee
North Dakota State University, Fargo, ND
\$42,302

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

Phillip N. Miklas
USDA-ARS, Prosser, WA
\$59,730

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

James Myers
Oregon State University, Corvallis, OR
\$46,039

11. Identification of major genes-QTL for *Sclerotinia* resistance in cultivated sunflower and wild *Helianthus*

Lili Qi
USDA-ARS, Fargo, ND
\$83,923

12. Synergistic Enhancement of Resistance to *Sclerotinia sclerotiorum*

Jeffrey Rollins
University of Florida, Gainesville, FL
\$66,411

13. 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
\$79,825

14. 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
\$43,734

15. Enhancing Soybean for Resistance to Sclerotinia Stem Rot

Dechun Wang
Michigan State University, East Lansing, MI
\$42,892

16. 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
\$52,554