Sclerotinia Initiative Funded Projects – 2004

Innovative Methods to Identify Resistance to *Sclerotinia sclerotiorum*
Berlin Nelson – PI
North Dakota State Univ., Fargo, ND
$21,540

Resistance Improvement of Bean Through Multi-site Screening and Pathogen Characterization
James Steadman – PI
Univ. of Nebraska, Lincoln, NE
$45,000

Minimizing *Sclerotinia* on Canola, Pea, Sunflower, Chickpeas, and Lentils Using Crop Sequence and Biological Control
Joe Krupinsky – PI
USDA-ARS, Mandan, ND
$65,000

Introgressing White Mold Resistance from the Secondary Gene Pool of Common Bean
Shree Singh – PI
Univ. of Idaho, Moscow, ID
$40,000

Multi-action Pesticide and Resistance Management of White Mold in Dry Bean
Howard Schwartz – PI
Colorado State Univ., Ft. Collins, CO
$28,000

Towards Marker-assisted Breeding for White Mold Resistance in Common Bean
Phil Miklas – PI
USDA-ARS, Prosser, WA
$23,000

Identify and Introgress Molecular Markers for White Mold Resistance in Dry Bean
Phil Miklas – PI
USDA-ARS, Prosser, WA
$40,000

Mapping and Transfer of *Sclerotinia* Resistance from Scarlet Runner to Common Bean
James Myers – PI
Oregon State Univ., Corvallis, OR
$40,000

Quantitative Trait Loci for Resistance to *Sclerotinia sclerotiorum* in PI391589A
Anne Dorrance – PI
Ohio State Univ., Wooster, OH
$16,079

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

Fred Muehlbauer – PI
USDA-ARS, Pullman, WA
$76,384

Sources of Resistance to White Mold in the Grain Legume Core Collections
Weidong Chen – PI
USDA-ARS, Pullman, WA
$35,975

Validation and Introgression of White Mold Resistance from Andean into Middle American Germplasm
Mark Brick – PI
Colorado State Univ., Ft. Collins, CO
$28,000

Development of Soybean Varieties or Germplasm Resistant to *Sclerotinia* Stem Rot
Dechun Wang – PI
Michigan State Univ., E. Lansing, MI
$29,209

Improving White Mold Resistance by Transforming Dry Bean with the Germin Oxalate Oxidase gene
James Kelly – PI
Michigan State Univ., E. Lansing, MI
$27,000

Genetic Basis of Oxalate Sensitivity in Relationship to *Sclerotinia* Diseases
Henrik Stotz – PI
Oregon State Univ., Corvallis, OR
$54,855

Development of PCR-based Molecular Markers for Resistance to *Sclerotinia* Stem Rot in Soybean
Glen Hartman – PI
USDA-ARS, Urbana, IL
$55,000

Soybean Genome Response to *Sclerotinia* and Oxalate, its Major Virulence Factor
Steven Clough – PI
USDA-ARS, Urbana, IL
$64,500

Sequencing of Expressed Sequence Tags of *Sclerotinia sclerotiorum* and *Pisum sativum*
Nik Grunwald – PI
USDA-ARS, Pullman, WA
$60,544

Population Structure of the White Mold Pathogen on Pea and Lentil in the US
Nik Grunwald – PI
USDA-ARS, Pullman, WA
$64,484

Influence of Crop Rotation and a Cover Crop on *Sclerotinia* in Canola
Paul Porter – PI
Univ. of Minnesota, St. Paul, MN
$5,500

Application of Genomic Technology to the Analysis of Gene Expression in *Sclerotinia*
Jeffrey Rollins – PI
Univ. of Florida, Gainesville, FL
$70,800

Fungicides and Application Timings for *Sclerotinia* Disease Control on Field Pea
Scott Halley – PI
North Dakota State Univ., Langdon, ND
$16,000

Evaluation of Canola Cultivars for Resistance to *Sclerotinia*
Bob Henson – PI
North Dakota State Univ., Carrington, ND
$18,000

Sunflower Head Rot Screening Nursery
Bob Henson – PI
North Dakota State Univ., Carrington, ND
$25,597

Evaluation of *Brassica napus* Accessions for Resistance to *Sclerotinia* Under Mist-irrigation
Carl Bradley – PI
North Dakota State Univ., Fargo, ND
$8,000

Validation of a White Mold Forecasting System for Dry Beans and Canola in North Dakota and Minnesota
Luis del Rio – PI
North Dakota State Univ., Fargo, ND
$45,000

A Novel Approach to Develop Elite, *Sclerotinia* Resistant Canola Cultivars
D. V. Phillips – PI
Univ. of Georgia, Athens, GA
$40,000

***Sclerotinia* Resistance and Management Strategies Among Susceptible South Dakota Crops**
Marty Draper – PI
South Dakota State Univ., Brookings, SD
$26,403

Gene Expression Changes in *Brassica napus* Challenged by *Sclerotinia*

Tom Osborn – PI
Univ. of Wisconsin, Madison, WI
$10,500

Impact of Preceding Crops on Incidence and Severity of Disease in Canola
Brian Jenks – PI
North Dakota State Univ., Minot, ND
$11,000

Epidemiology and Control of *Sclerotinia* Headrot in Wild Sunflower Species
Khalid Rashid – co-PI
Agriculture and Agri-food Canada, Morden, Manitoba & Gerald Seiler – co-PI USDA-ARS, Fargo, ND
$15,000

Development of Sunflower Germplasm with *Sclerotinia* Head Rot and Stalk Rot Resistance
Tom Gulya – PI
USDA-ARS, Fargo, ND
$75,284

Management of Sclerotinia on Canola in the Northern United States
Jack Rasmussen – PI
North Dakota State Univ., Fargo, ND
$65,150

Tech Transfer
Ken Grafton – PI
North Dakota State Univ., Fargo, ND
$28,000