

## National Sclerotinia Initiative Funded Projects – 2022

1. Exploring defense proteins to improve plant resistance to *Sclerotinia* white mold  
Weidong Chen  
USDA-ARS, Pullman, WA  
\$86,869
2. *Sclerotinia sclerotiorum* hijacks host cell death control in infecting plant  
Weidong Chen  
USDA-ARS, Pullman, WA  
\$79,205
3. Improving resistance to *Sclerotinia sclerotiorum* in spring canola  
Luis del Rio Mendoza  
North Dakota State University, Fargo ND  
\$30,000
4. Genetic variability associated with the traits of fungicide resistance and pathogenicity in *Sclerotinia sclerotiorum*  
Sydney Everhart  
University of Connecticut, Storrs, CT  
\$40,619
5. Improved white mold resistance in dry and snap beans through multi-site screening throughout major production areas  
Francisco Gomez  
Michigan State University, E. Lansing, MI  
\$66,500
6. Evaluation and optimization of genomic selection for durable white mold resistance in dry bean  
Francisco Gomez  
Michigan State University, E. Lansing, MI  
\$83,686
7. Greenhouse remodeling at the Northern Crop Science Laboratory to support National Sclerotinia Initiative research projects  
Michael Grusak  
USDA-ARS, Fargo, ND  
\$300,000
8. Enhanced *Sclerotinia* stem rot resistance in soybean through the manipulation of *Sclerotinia sclerotiorum* virulence determinants  
Mehdi Kabbage  
University of Wisconsin, Madison, WI  
\$50,630

9. Developing gemycircularvirus-based pesticide for the control of *Sclerotinium sclerotiorum*  
Shin-Yi Marzano  
USDA-ARS, Toledo, OH  
\$76,700
10. Exploring RNAi-based management strategies to confer plant resistance to white mold infection  
Shin-Yi Marzano  
USDA-ARS, Toledo, OH  
\$75,500
11. White mold resistance QTL: identification, interactions, and fine mapping in common bean  
Phillip N. Miklas  
USDA-ARS, Prosser, WA  
\$79,650  
  
Phil McClean  
North Dakota State University, Fargo, ND  
\$25,159  
  
James Myers  
Oregon State University, Corvallis, OR  
\$65,799
12. QTL mapping of Sclerotinia head rot resistance and pyramiding of basal stalk rot QTL in sunflower  
Lili Qi  
USDA-ARS, Fargo, ND  
\$45,000
13. Introgression and pyramiding of Sclerotinia stem rot disease resistant gene(s) into canola cultivars  
Muklesar Rahman  
North Dakota State University, Fargo ND  
\$26,100
14. Characterizing and bioengineering soybean phenylpropanoid pathway genes for resistance against *Sclerotinia sclerotiorum*  
Ashish Ranjan  
University of Minnesota, St. Paul, MN  
\$93,186
15. Manipulating endogenous host pathways to enhance white mold resistance in Brassicaceae  
Jeffrey Rollins  
University of Florida, Gainesville, FL  
\$88,440

16. Less is More: Removing R-gene mediated susceptibility to *Sclerotinia sclerotiorum* in soybean

Mitchell Roth  
The Ohio State University, Wooster, OH  
\$78,010

17. Exploiting small cysteine-rich antifungal peptides for management of white mold disease in soybean

Dilip Shah  
Donald Danforth Plant Science Center, St. Louis, MO  
\$74,000

18. Characterization of oxalic acid tolerance in sunflower basal stalk rot resistance

William R. Underwood  
USDA-ARS, Fargo, ND  
\$31,846

19. Enhancing soybean for resistance to *Sclerotinia* stem rot

Dechun Wang  
Michigan State University, East Lansing, MI  
\$77,025