

## Sclerotinia Initiative Funded Projects – 2020

1. Characterizing pathogenicity effectors of *Sclerotinia sclerotiorum* preferentially expressed under acidic conditions and during plant infection

Weidong Chen  
USDA-ARS, Pullman, WA  
\$78,638

2. Screening for resistance sources to *Sclerotinia* white mold in recently acquired germplasm of cool season grain legumes

Weidong Chen  
USDA-ARS, Pullman, WA  
\$36,825

3. Biological control of white mold using the Mycovirus SsHADV-1-infected hypovirulent strain DT-8 of *Sclerotinia sclerotiorum*

Weidong Chen  
USDA-ARS, Pullman, WA  
\$73,205

4. Improved white mold resistance in dry and snap beans through multi-site screening and pathogen characterization throughout major production areas

Sydney Everhart  
University of Nebraska, Lincoln, NE  
\$74,164

5. Developing knowledge and tools to optimize sunflower breeding for *Sclerotinia* resistance and improved microbiome-related traits

Brent S. Hulke  
USDA-ARS, Fargo, ND  
\$80,979

6. Understanding how sunflower soil microbiome impacts resistance to *Sclerotinia* stalk rot

Brent S. Hulke  
USDA-ARS, Fargo, ND  
\$82,694

7. Targeting essential genes in *Sclerotinia sclerotiorum* to achieve *Sclerotinia* stem rot resistance in soybean

Mehdi Kabbage  
University of Wisconsin, Madison, WI  
\$47,960

8. Developing gemycircularvirus-based pesticide for the control of *Sclerotinium sclerotiorum*

Shin-Yi Marzano  
South Dakota State University, Brookings, SD  
\$54,797

9. White mold resistance QTL: identification, interactions, and fine mapping in common bean

Phil McClean  
North Dakota State University, Fargo, ND  
\$56,856

Phillip N. Miklas  
USDA-ARS, Prosser, WA  
\$79,650

James Myers  
Oregon State University, Corvallis, OR  
\$44,559

10. QTL mapping of *Sclerotinia* head rot resistance and pyramiding of basal stalk rot QTL in sunflower

Lili Qi  
USDA-ARS, Fargo, ND  
\$95,383

11. Role of WRKY transcription factors in quantitative resistance to *Sclerotinia sclerotiorum*

William R. Underwood  
USDA-ARS, Fargo, ND  
\$33,420

12. Validation and characterization of cultivated sunflower lines with resistance to *Sclerotinia* basal stalk rot

William R. Underwood  
USDA-ARS, Fargo, ND  
\$42,954

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

Dechun Wang  
Michigan State University, East Lansing, MI  
\$57,959