## National Sclerotinia Initiative Funded Projects - 2021

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

Weidong Chen USDA-ARS, Pullman, WA \$82,763

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

Weidong Chen USDA-ARS, Pullman, WA \$54,824

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 \$89,526

4. Development of RNA fungicides for management of Sclerotinia sclerotiorum on canola

Luis del Rio Mendoza North Dakota State University, Fargo ND \$84,124

5. Improving resistance to Sclerotinia sclerotiorum in spring canola

Luis del Rio Mendoza North Dakota State University, Fargo ND \$62,331

6. 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 \$76,263

7. Evaluation and optimization of genomic selection for durable white mold resistance in dry bean

Francisco Gomez Michigan State University, E. Lansing, MI \$55,000 8. Developing knowledge and tools to optimize sunflower breeding for Sclerotinia resistance and improved microbiome-related traits

Brent S. Hulke USDA-ARS, Fargo, ND \$155,650

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

Brent S. Hulke USDA-ARS, Fargo, ND \$115,820

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

Mehdi Kabbage University of Wisconsin, Madison, WI \$50,144

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

Shin-Yi Marzano USDA-ARS, Toledo, OH \$76,580

12. Developing environmentally friendly fungicides for managing white mold

Shin-Yi Marzano USDA-ARS, Toledo, OH \$69,575

13. 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 \$78,497

James Myers Oregon State University, Corvallis, OR \$50,391

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

Lili Qi USDA-ARS, Fargo, ND \$103,411 15. Introgression and pyramiding of Sclerotinia stem rot disease resistant gene(s) into canola cultivars

Muklesar Rahman North Dakota State University, Fargo ND \$25,803

16. Characterizing and bioengineering soybean phenylpropanoid pathway genes for resistance against *Sclerotinia sclerotiorum* 

Ashish Ranjan University of Minnesota, St. Paul, MN \$50,510

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 \$86,374

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

William R. Underwood USDA-ARS, Fargo, ND \$91,596

19. Enhancing soybean for resistance to Sclerotinia stem rot

Dechun Wang Michigan State University, East Lansing, MI \$76,353