Sclerotinia Initiative Funded Projects – 2018

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

   Weidong Chen
   USDA-ARS, Pullman, WA
   $50,000

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

   Weidong Chen
   USDA-ARS, Pullman, WA
   $47,482

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
   $85,163

4. Characterizing resistance and pathogenicity genes associated with infection of *B. napus* by *S. sclerotiorum*

   Luis del Rio
   North Dakota State University, Fargo, ND
   $39,280

5. Improving resistance to *Sclerotinia sclerotiorum* in spring canola

   Luis del Rio
   North Dakota State University, Fargo, ND
   $24,615

6. Fine mapping of loci for resistance to *Sclerotinia* stem rot in Glycine latifolia

   Les Domier
   USDA-ARS, Pullman, WA
   $34,908

7. Refining genomic tools for *Sclerotinia* resistance and agronomic breeding of sunflower – towards dissection of the resistance phenotype

   Brent S. Hulke
   USDA-ARS, Fargo, ND
   $63,283

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

   Mehdi Kabbage
   University of Wisconsin, Madison, WI
   $40,520

9. Developing environmental friendly fungicides for managing white mold

   Shin-Yi Marzano
   South Dakota State University, Brookings, SD
   $67,794

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

    Phil McClean
    North Dakota State University, Fargo, ND
    $38,115

    Phillip N. Miklas
    USDA-ARS, Prosser, WA
    $51,000

    James Myers
    Oregon State University, Corvallis, OR
    $41,115

11. QTL mapping of *Sclerotinia* basal stalk rot resistance derived from sunflower wild species

    Lili Qi
    USDA-ARS, Fargo, ND
    $104,796

12. Enhancing Basal Resistance to *Sclerotinia sclerotiorum* in Brassica

    Jeffrey Rollins
    University of Florida, Gainesville, FL
    $72,363

13. 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
    $77,854

14. Identification of *Sclerotinia sclerotiorum* virulence determinants relevant to infection of multiple host plants by association mapping

    William R. Underwood
    USDA-ARS, Fargo, ND
    $48,504

15. Improving stalk rot phenotyping by evaluation of environment, pathogen, and host factors for S. sclerotiorum infection in sunflower disease nurseries

    William R. Underwood
    USDA-ARS, Fargo, ND
    $9,364

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

    Dechun Wang
    Michigan State University, East Lansing, MI
    $53,844