Sclerotinia Initiative Funded Projects – 2019

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
   $49,771

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
   $42,500

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

   Luis del Rio
   North Dakota State University, Fargo, ND
   $52,699

5. 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
   $79,742

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

   Brent S. Hulke
   USDA-ARS, Fargo, ND
   $49,900

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

   Brent S. Hulke
   USDA-ARS, Fargo, ND
   $59,964

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

    Mehdi Kabbage
    University of Wisconsin, Madison, WI
    $44,540

9. Developing environmental friendly fungicides for managing white mold

    Shin-Yi Marzano
    South Dakota State University, Brookings, SD
    $69,481

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

    Shin-Yi Marzano
    South Dakota State University, Brookings, SD
    $42,500

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

    Phil McClean
    North Dakota State University, Fargo, ND
    $52,297

    Phillip N. Miklas
    USDA-ARS, Prosser, WA
    $42,625

    James Myers
    Oregon State University, Corvallis, OR
    $53,346

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

    Lili Qi
    USDA-ARS, Fargo, ND
    $74,149

13. Enhancing basal resistance to *Sclerotinia sclerotiorum* in Brassica

    Jeffrey Rollins
    University of Florida, Gainesville, FL
    $52,363

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

    William R. Underwood
    USDA-ARS, Fargo, ND
    $35,424

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

    William R. Underwood
    USDA-ARS, Fargo, ND
    $38,824

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

    Dechun Wang
    Michigan State University, East Lansing, MI
    $59,875