Pulse Crop Health Initiative Funded Projects – 2018

1. Hidden Nutrition: Understanding the encapsulation dynamics of the cotyledon cell to optimize consumer acceptability and nutritional benefits of dry beans

   Karen Cichy (PI)
   USDA-ARS, East Lansing, MI
   $69,500

   Ray Glahn
   USDA-ARS, Ithaca, NY
   $30,000

   Donna Winham
   Iowa State University, Ames, IA
   $71,227

2. MP3: More protein, more peas, more profit

   Clare Coyne
   USDA-ARS, Pullman, WA
   $178,217 (funding for Years 1 and 2)

3. Flavor, nutrition and functional properties of pea protein

   Baraem (Pam) Ismail
   University of Minnesota, St. Paul, MN
   $173,694 (funding for Years 1 and 2)

4. Increasing nitrogen fixation potential in pulses for environmental and economic sustainability

   Clain Jones
   Montana State University, Bozeman, MT
   $66,481

5. Development of efficient, genotype-independent gene-editing systems for common bean and chickpea

   Shawn Kaeppler
   University of Wisconsin, Madison, WI
   $78,149

6. The effect of food processing on fermentable oligosaccharides from pulse crops in human colon and its microbiota

   Sean Liu
   USDA-ARS, Peoria, IL
   $61,146

7. Enhancing the Nutritional and Functional Traits of Dry Bean Through Metabolomics, Genetics, and Breeding

   Phil McClean (PI)
   North Dakota State University, Fargo, ND
   $69,868

   Karen Cichy
   USDA-ARS, East Lansing, MI
   $60,166

   James Harnly
   USDA-ARS, Beltsville, MD
   $73,000

   Phillip N. Miklas
   USDA-ARS, Prosser, WA
   $39,055

8. Sustainable field pea cropping systems for the Great Plains

   Kraig Roozeboom
   Kansas State University, Manhattan, KS
   $85,837

9. Optimizing pulse protein functionality

   Brennan Smith
   University of Idaho, Moscow, ID
   $74,308

10. Sustainability and health impact assessment of US pulses

    Greg Thoma
    University of Arkansas, Fayetteville, AR
    $84,407

11. Mechanisms of dry bean mediated anti-obesogenic activity

    Henry Thompson
    Colorado State University, Fort Collins, CO
    $165,793 (funding for Years 1 and 2)

12. Comparative Analysis of Chickpea, Dry Pea, Lentil and Dry Bean for Human Health Traits

    Henry Thompson
    Colorado State University, Fort Collins, CO
    $84,953

13. Improving the nutritional value of chickpeas

    George Vandemark
    USDA-ARS, Pullman, WA
    $137,728 (funding for Years 1 and 2)