

Learn More About New Pulse Cluster Research Program Focuses on Breeding, Genetics & Agronomy Tools

Date: Wednesday, April 24, 2024

Manitoba Pulse and Soybean Growers (MPSG) invested over \$600,000 into pulse research projects, through the recently announced Sustainable Canadian Agricultural Partnership (S-CAP) AgriScience Program – Clusters Component. This investment was leveraged to over \$21 million of Government and other industry partner funding.

Projects funded under this Pulse Cluster look to make advancements in critical areas to make growers more efficient and profitable and for the benefit of the pulse industry overall.

MPSG-Funded Projects

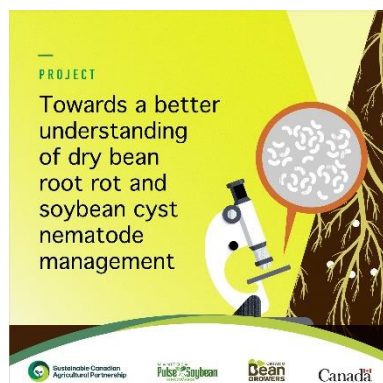


Project: Development of improved pea cultivars to enhance Canada's leading role in international pea markets.

Principal Investigator: Dr. Tom Warkentin, University of Saskatchewan

Industry Funders: MPSG, SPG, APG

Project Cost: \$4,239,829

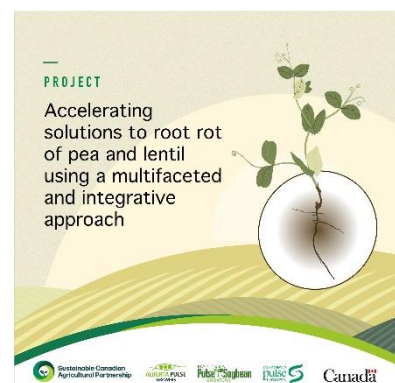


Project: Towards a better understanding of dry bean root rot and soybean cyst nematode management.

Principal Investigator: Dr. Owen Wally, AAFC

Industry Funders: MPSG, OGB

Project Cost: \$592,496



Project: Accelerating solutions to root rot of pea and lentil using a multifaceted and integrative approach.

Principal Investigator: Dr. Syama Chatterton, AAFC

Industry Funders: MPSG, SPG, APG

Project Cost: \$2,360,346



Project: Diversity set for genomic improvement of faba bean.

Principal Investigator: Dr. Nicholas Larkan, AAFC

Industry Funders: MSPG, SPG, APG

Project Cost: \$636,415



Project: Breed for top-performing field pea varieties and develop SNP-based markers for marker-assisted selection for grain and protein yield, maturity, standability, and seed size.

Principal Investigator: Dr. Dengjin Bing, AAFC

Industry Funders: MSPG, SPG, APG

Project Cost: \$1,283,599



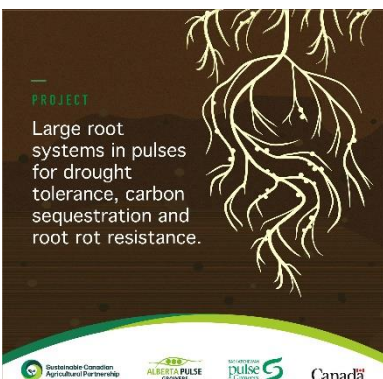
Project: The AGGI project: accelerated genetic gain and improvement.

Principal Investigator: Valerio Hoyos-Villegas, McGill University

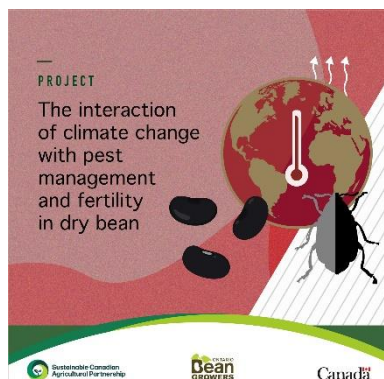
Industry Funders: MSPG, OBG

Project Cost: \$2,211,537

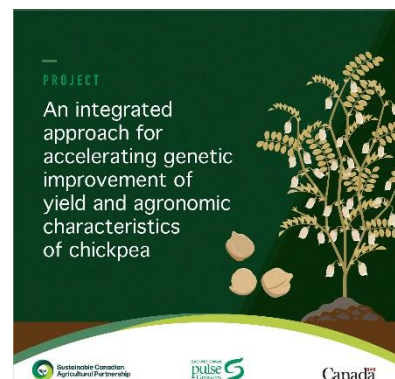
Other Projects Included in this Cluster Program



Project: Large root systems in pulses for drought tolerance, carbon sequestration and root rot resistance.



Project: The interaction of climate change with pest management and fertility in dry bean.



Project: An integrated approach for accelerating genetic improvement of yield and agronomic characteristics of chickpea.

Principal Investigator:
Maryse Bourgault, University
of Saskatchewan

Industry Funders: APG,
SPG

Project Cost: \$1,613,690

Principal Investigator: Chris
Gillard, University of Guelph

Industry Funder: OBG

Project Cost: \$850,300

Principal Investigator: Dr.
Bunyamin Tar'an, University
of Saskatchewan

Industry Funder: SPG

Project Cost: \$2,743,465

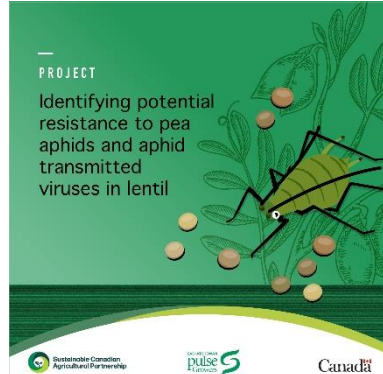


Project: Selection of early-maturing dry bean germplasm and cultivars for sustainability and improved productivity under irrigation.

Principal Investigator: Dr. Parthiba Balasubramanian, Agriculture and Agri-Food Canada (AAFC)

Industry Funders: APG,
SPG

Project Cost: \$1,225,495

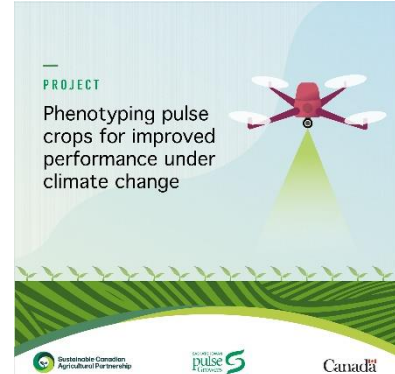


Project: Identifying potential resistance to pea aphids and aphid-transmitted viruses in lentil.

Principal Investigator: Dr. Sean Prager, University of Saskatchewan

Industry Funder: SPG

Project Cost: \$651,650



Project: Phenotyping pulse crops for improved performance under climate change.

Principal Investigator: Dr. Steve Shirliffe, University of Saskatchewan

Industry Funder: SPG

Project Cost: \$1,226,793

Learn more about the specific projects, target outcomes, and why this research will benefit growers:

- New Investments in Pulse Breeding and Genetics
- New Funding for Pulse Research, Root Rot and Agronomy Tools

Manitoba Pulse & Soybean Growers (MPSG) is a non-profit, member-based corporation representing more than 4,000 farmers in Manitoba who grow soybeans and pulses, including dry beans, peas, lentils, and faba beans. MPSG provides Manitoba pulse and soybean farmer members with production knowledge and market development support, through focused

research, advocacy and linkages with industry partners. For more information, please visit:
www.manitobapulse.ca.

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