

# NEW RESEARCH COMMITMENTS 2022-2023

Manitoba Crop Alliance (MCA) entered into funding agreements for the following new research projects in our 2022-23 fiscal year. The amount reflected in the "Committed Dollars" column represents the total funding over the lifetime of the project. Projects vary in length, from one year to projects ending in 2027. For more information about MCA's research program, visit [mbcropalliance.ca](http://mbcropalliance.ca).

Project Title	Principle Investigator	Committed Dollars	End Date
<b>WHEAT AND BARLEY</b>			
Glyphosate alternative pre-harvest herbicide evaluation for spring wheat	Zhenyi Li	\$48,840	2026
High-yielding wheat varieties via screening for water-use efficiency and drought tolerance under different thermal conditions	Ludovic Joseph Anatole Capo-chichi	\$25,300	2026
Characterization of a genomic region controlling spikelet number and improved fertility under drought stress in wheat	Gurcharn Brar	\$40,255	2026
Functional use of core pathogenicity genes to develop mitigation strategies against blackleg of canola and FHB of wheat	Hossein Borhan	\$194,000	2026
Improving barley salinity tolerance and functional quality by characterizing root, GABA and gene expression responses	Pankaj Bhowmik	\$17,151	2027
Optimizing nitrogen fertility in winter wheat	MCA	\$12,000	2024

Project Title	Principle Investigator	Committed Dollars	End Date
<b>FLAX</b>			
Flax seed treatment trial	MCA	\$19,200.00	2025

<b>WHOLE FARM</b>			
Insect response to climate change and ag inputs across the Prairies	Meghan Vankosky	\$18,000	2026
Interactions of N fertilizer technology, fungicides and the soil microbiome to optimize sustainable agriculture	Monika Gorzelak	\$26,000	2026
Straw harvesting strategies to provide feedstock while maintaining soil and environmental quality	Jeff Schoenau	\$18,055	2027
Effect of integrated crop management on weed phenology and weed persistence	Dilshan Benaragama	\$141,000	2026

<b>SUNFLOWERS</b>			
Sunflower row spacing study	MCA	\$9,360	2025

<b>TOTAL 2022-23 NEW RESEARCH COMMITMENTS:</b>		<b>\$569,161</b>	
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