



**Alberta
Barley**

2022 Alberta Barley Student Scholarship

Alberta Barley is a farmer-directed, not-for-profit organization representing Alberta's 11,000 barley producers. Through the collection of a refundable levy, Alberta Barley is able to invest in research activities that will provide value to our farmer members and ensure the long-term sustainability of their livelihoods and of the sector.

In support of the next generation of barley agronomists and scientists, Alberta Barley is excited to offer scholarships to students actively engaged in barley research.

Value: \$2,000/ student

Number of Awards: Up to three awards are available based on student merit and alignment of their research to Alberta Barley Research priorities

Application Open: March 31, 2022

Closing Deadline: May 31, 2022

Eligible students: Full and part-time graduate and undergraduate students studying at Canadian academic institutions. Preference will be given to students who intend to have a career path that would involve working in agriculture or academia in western Canada.

Application package:

- Letter confirming the student's status from their academic supervisor
- CV
- One paragraph describing the student's career goals
- One-page summary of student's research project. Project summaries should include a statement of how the research could be beneficial to barley producers and the industry. Preference will be given to students with research projects that align with Alberta Barley's 2022 Research Priorities (Appendix A).

Applications or questions may be directed to Lauren Comin at lcomin@albertawheatbarley.com

albertabarley.com

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Appendix A – Alberta Barley’s Research Priorities – February, 2022

In February, 2022, Alberta Barley (AB) directors and delegates, and research committee members provided input on AB’s research priorities, current investments and future needs to help direct the investment of producer dollars in future research initiatives. AB’s 2022 core research themes align with the Canadian Barley Research Coalition’s [National Barley Research Strategy](#), to provide coordination with national barley research in Canada. Below are the priority research areas identified for AB.

Theme 1: Yield

Breeding

- a. Breeding for abiotic stress resistance
- b. Breeding for biotic stress resistance

Agronomy

- a. Agronomy to optimize seeding rates
- b. Seeding dates, including ultra early seeding

Theme 2: Lodging

- a. Breeding for improvements in stem strength and root anchorage
- b. Lodging management with N fertilizer rates and timings
- c. GxExM to managing lodging including PGRs

Theme 3: Barley Pests

Weeds

- a. Resistant weed management, with a large focus on resistant wild oats
- b. Strategies to increase crop competitiveness

Disease

- a. Disease forecasting systems
- b. Fungicide decision making tools

Insects

- a. Barley specific economic thresholds for pests like grasshoppers, cutworms, etc.
- b. Short term forecasting tools – i.e. risk maps

Theme 4: Harvest and Post-Harvest Management

- a. Breeding for head retention
- b. Breeding to prevent pre-harvest sprouting
- c. Breeding short season varieties

Theme 5: End use applications/opportunities

- a. Breed barley varieties for livestock, pet food and food barley, possibly hulless barley if the yields could be increased to be competitive with hulled barley varieties or higher prices to off-set the lower yields
- b. Feed efficiency for cattle
- c. Malting and brewing end use

Theme 6: Sustainability

Fertility

- a. 4R Management, N Forms (i.e., enhanced efficiency fertilizers (EEFs) and economics of EEFs)
- b. 4R Management, N Rates including optimal rates for various growing regions and soil types
- c. 4R Management, N Timing

System Health

- a. Crop rotations
- b. Increased crop-livestock integration
- c. Maintaining and managing soil organic matter