



# Research Projects for 2026 & Seed Variety Update

---

RICK MITZEL, PRESIDENT  
MUSTARD 21 CANADA INC.

# Research Projects - SCAP

---

- Mustard 21 (M21) continues to be involved in the Diversified Field Crops Cluster (DFCC) under the Sustainable Canadian Agricultural Partnership program (SCAP).
- We are presently in Year 3 of a 5-year breeding project with a focus on developing improved mustard varieties for Canadian mustard growers.
- Progress is being made on clubroot resistance in mustard, herbicide tolerance and disease resistance.
- Testing for new hybrids continues to build on the yield advantage and disease resistance.

# Research Projects - SCAP

---

- The Greenhouse Gas study - led by Dr. Kate Congreves, Department of Plant Sciences, U of S
- The objective is to study baseline nitrous oxide emission measurements from the following crops: mustard, camelina, flax, sunflower, wheat, and carinata
- Here is a link to a video describing this project:

<https://youtu.be/nbvkGTMVnM?si=MfJAMWDN3SVUdDIS>

# Projects outside of SCAP

---

- Objective is to work closely with the industry partners to develop new uses for mustard.
- M21 is working with Dr Lynn Weber, U of S College of Veterinary Medicine, on a project that involves adding mustard bran to dog food. A proposal has been submitted to NSERC and MITACS. The objective is to demonstrate that the addition of mustard bran to dog food will improve gut health.
- M21 is working with Dr. Ajay Dalai, U of S College of Engineering, on a project titled: “Adding Value to Yellow Mustard and Flour for Diversifying Product Streams”. A proposal will be submitted to NSERC and MITACS.

# New Varieties – Oriental Hybrid

---

- AAFC and M21 are working on a hybrid oriental line of mustard.
- We are hoping for a candidate will be selected in 2026 and brought forward for advancement.
- M21 expects to have small amounts of this variety available for the spring of 2027





# New Market Development

---

- Early's Farm and Garden has signed a distributors agreement to sell AAC Guard in-store and online to be used as green manure and biofumigation.
- We are working with other potential distributors of AAC Guard

# Meetings with Processors in France

---

- Objective is to work closely with the processors in France and determine what they need from Canadian mustard.
- We are working with other potential distributors
- On December 1, 2025, I travelled to France to meet with key mustard processors.
- The companies I meet with are:
- Europeenne de Condiments, Reine De Dijon, Charbonneaux and Unilever.
- These four processors account for 80% of the mustard processed in France.
- The trip was set up by Yannick Dheilily from the Embassy of Canada and Ranissah Samah from the Saskatchewan Trade Commission.

# Meetings with Processors in France

---

- The main goal was to develop a relationship with the processors so we can work together on new product launches.
- Had a good discussion of the challenges that growers in France and in Canada are facing.
- Discussed the viscosity issue we had with AAC Brown 18 and how that has changed with AAC Brown Elite.
- Glucosinolate levels seem to be high with AAC Brown Elite.
- We had a discussion about how a drought can influence the glucosinolate levels.

# Meetings with Processors in France

---

- The discussion on Brown Elite led us to coming up with a plan to send these processors samples from the 2025 harvest from areas with adequate moisture.
- We also discussed working closer and these processors have been invited to this meeting.
- They are also very interested in coming to Saskatchewan and touring mustard fields.
- This closer relationship will be beneficial for the mustard industry going forward.
- Utilizing Saskatchewan's Trade Commission was of enormous benefit.

# What's next?

---

- Continue to develop a relationship with European processors
- Summer Saskatchewan field tour for European mustard processors
- Look at other opportunities other than Ag in Motion to communicate with producers
- Start on the early stages for next round of SCAP

# Acknowledgements

**Mustard 21 thanks the following organizations for their support:**

Agriculture and Agri-food Canada (AAFC)  
and its funding programs

Diverse Field Crops Cluster (DFCC)

Agriculture Development Fund

**Our Industry Partners:**

Western Grains Research Foundation (WGRF)

Saskatchewan Mustard Development Commission (Sask Mustard)

Canadian Mustard Association (CMA)



---

Thank you! Questions?