Canadian Angus Association Leads the Way with Research and Development Project:

Using A.I. and Camera Technology to develop phenotyping systems to measure traits for members

There are three main areas of focus in this project with associated outcomes:

- **Developing camera and A.I. technology to help measure and record subjective traits**
  Along with traditional classification by trained Holstein Canada Classifiers, we will develop technology that can help producers collect standardized and accurate information on subjective traits like teat score, udder score, foot angle score, claw set score, body condition score and docility. This technology can be used to collect many more traits and measurements.
- **Developing camera and A.I. technology to help measure and record carcass quality traits**
  Included in the project objectives is collecting both ultrasound scan data and abattoir data on carcass quality traits. Members who do not currently use ultrasound scanning, or receive carcass quality information back from the abattoir can contribute to this project's objective. Both ultrasound scan and abattoir carcass quality information on Angus and Angus cross animals will contribute significantly to more accurate GEPDs for these traits.
- **Developing camera and A.I. technology to help measure and record health traits**
  Expanding on our previous work to characterize high immune response in Canadian Angus animals, this project will allow us to collect additional phenotypes for traits that impact animal health and welfare.

Acknowledgements
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Canadian Angus Association members wanting to participate
Canadian Angus members who would like a trained scorer to measure and record subjective traits for mature cows this fall (+/- 45 days of calf weaning weight), or on yearling animals next winter, can contact the office to schedule a classifier or ultrasound scan technician and a High Immune Response Test technician. To participate in the project please contact Dr. Kajal Latimer at klatimer@cdnangus.ca.