Discover LactanetGen.ca

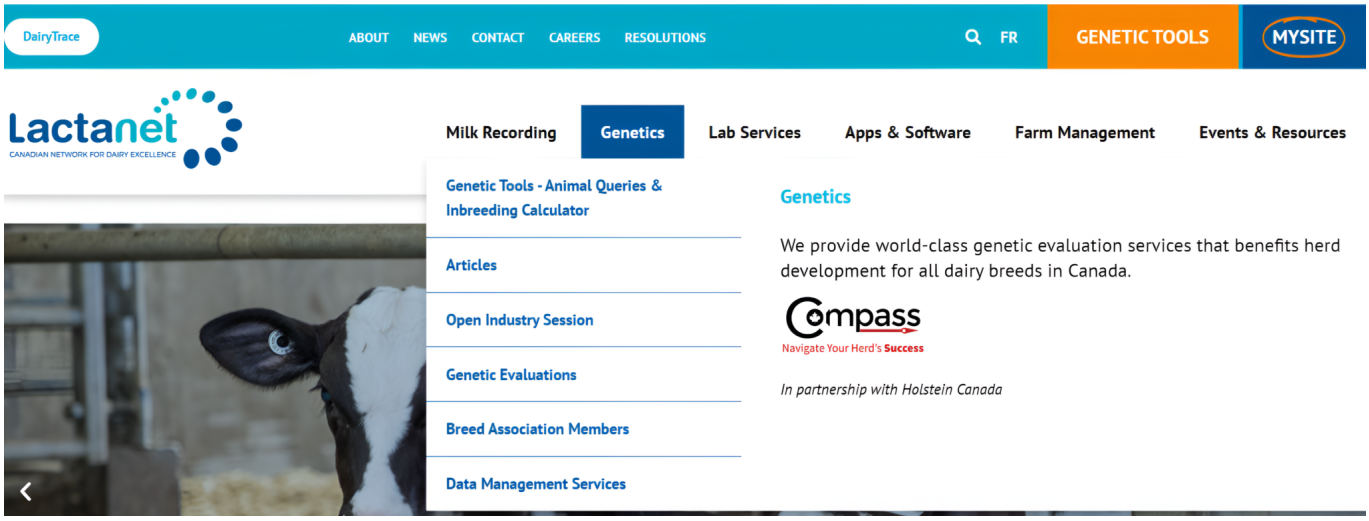
- Genetics Tools
- November 13, 2024

Lactanet is thrilled to introduce you to a new website for genetic tools: LactanetGen.ca! Those keen on querying genetic data can now find the well-known Animal Query, Group Query, and Inbreeding Calculator tools all on LactanetGen.ca. Designed with users in mind, this website offers a seamless experience whether you're using a desktop computer, tablet or mobile device, mirroring the familiar interface of cdn.ca that you know and love but with updated technology and new features. Let's dive into some common questions!

How do I find LactanetGen.ca?

1. By simply typing LactanetGen.ca into your preferred browser
2. By clicking on the "Genetic Tools" button located next to "MySite" in the Lactanet.ca header
3. By navigating to the "Genetics" dropdown menu on Lactanet.ca and

selecting “Genetic Tools – Animal Queries & Inbreeding Calculator”



What features are available on LactanetGen.ca?

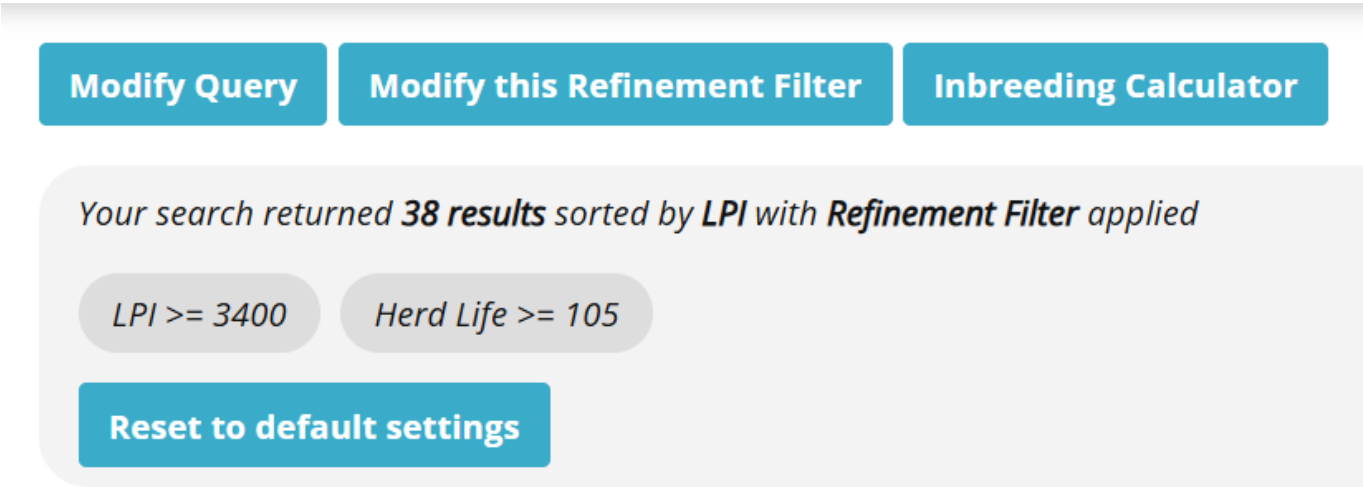
Use the LactanetGen.ca homepage or “Menu” in the top right corner to navigate from any page to the Animal Query, Group Query or Inbreeding Calculator tools. The Animal Query can be used to search animals by name, registration number, semen code, or animal tattoo. Entering your herd prefix when searching by name will provide a list of all your registered animals. The Group Query can be used to query and filter top males and females for your breed of interest. Alternatively, the advanced search options will return more specific query results including animals that are free or carriers of undesirable genetic conditions or haplotypes. The Inbreeding Calculator allows you to view pedigree inbreeding levels and Parent Averages for potential progeny from various matings. With LactanetGen.ca these tools now have an improved design with minimal scrolling, allowing you to view an animal’s information at a quick glance!

Not familiar with these tools? Check out our series of tips and tricks articles here: The Animal Query, The Group Query, The Inbreeding Calculator.

Several key features can also be found within these tools on LactanetGen.ca, including:

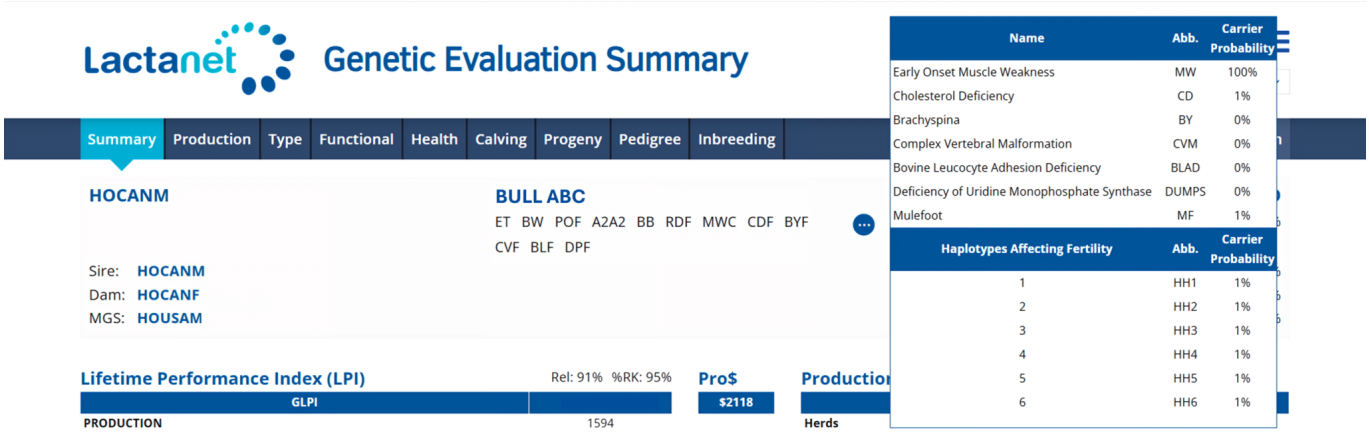
- The Refinement Filter feature of the Group Query tool which

provides the option to filter the resulting list of animals, now clearly shows which filters you have in place. After submitting a filter, the specific requirements will appear in the top grey bar before the list of animals. In the example below, a refinement filter has been selected for animals with an LPI greater than or equal to 3400 and a Herd Life evaluation greater than or equal to 105:



- On a mobile device, a full overview of an animal's Genetic Evaluation Summary page is viewable without scrolling, providing the ability to quickly glance at the histograms or take screenshots.

- A pop-up window containing Carrier Probability values for the undesirable genetic conditions and haplotypes known in each breed is available on each animal's Genetic Evaluation Summary, Inbreeding Calculator, and Pedigree pages. Simply hover over the blue circle with three dots beside the list of genetic condition codes below the animal's name.



- To also help manage the spread of known undesirable genes, a new "GC" column for "Genetic Conditions" was added to the Inbreeding Calculator. For the selected mating animal, this column contains the genetic conditions for which they have a Carrier Probability of 25% of higher. For the list of potential mates, this column will either appear blank, show a stop sign or warning sign to reflect the probability that the resulting pregnancy or calf will be affected by at least one of the undesirable conditions or haplotypes. For more information on the pop-up window and Inbreeding Calculator, read the "New Lactanet Tools to Manage Undesirable Genes"

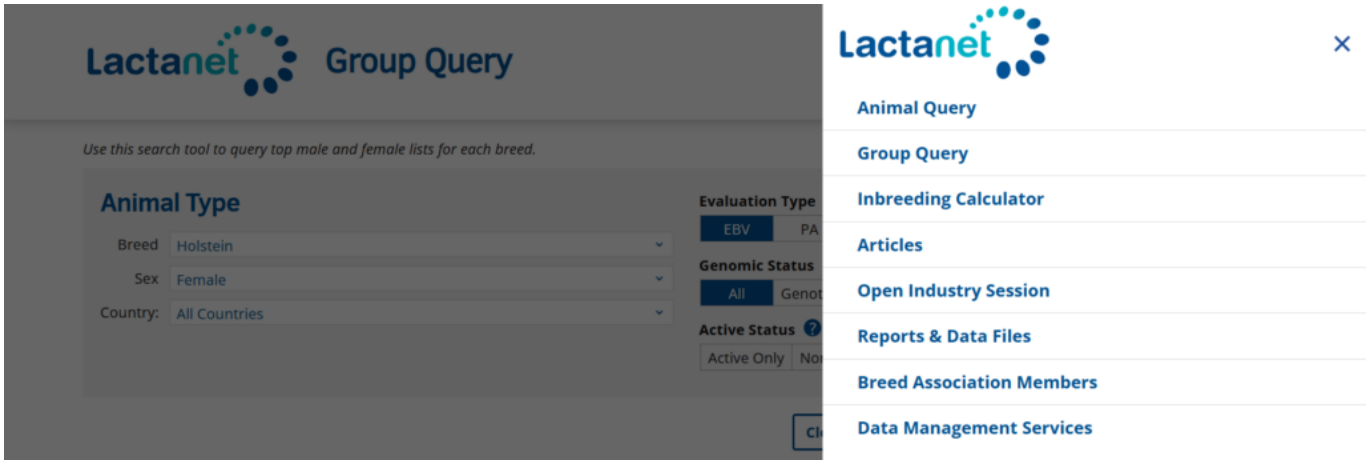
- Originally introduced to the Lactanet website in 2021, the Genomics Impact page is also available on LactanetGen.ca. This tool provides a visual representation of the impact that genomic testing had on a trait-by-trait basis for each genotyped, Canadian female and the associated gain in Reliability.

  Once a heifer is genotyped and the results are processed, the "Genomics Impact" tab will appear next to the "Summary" tab via the Animal Query.

What genetic content will remain on the Lactanet.ca website?

Articles, Open Industry Session information, Genetic Evaluation Reports

and Data Files, Breed Association Members queries, and Data Management Services will all remain on Lactanet.ca and are accessible via the genetics dropdown menu. If you wish to head to any of these pages from LactanetGen.ca you may do so by clicking on the top right menu and selecting the page of interest. In doing so, we have allowed for smooth navigation between the two websites.



What can I expect from LactanetGen.ca in the future?

In the coming months, several developments and new enhancements will be added to LactanetGen.ca to help you make better breeding decisions, including:

- The ability to sign in and personalize your viewing experience
- A “Beef-on-Dairy Query” tool allowing you to gain confidence in your beef sire selection decisions
- Display changes related to the modernized LPI coming in April 2025 and the ability to customize the relative weight on each sub-index and more!

Summary

All cdn.ca website users are encouraged to familiarize themselves with LactanetGen.ca launched in October 2024. Starting in 2025, users of the

cdn.ca website will be redirected to a similar page on LactanetGen.ca, which will then be the ONLY website for accessing updated genetics content. Make sure to update your favourite bookmarks to the LactanetGen.ca website and keep an eye out for exciting developments coming soon!

Partager



By Hannah Sweett, Ph. D.

Hannah discovered her passion for agriculture during her undergraduate degree at the University of Guelph and through work experience in the dairy industry. She holds a B.Sc. in Molecular Biology and Genetics and a Ph.D. in Animal Genetics, focusing on the genetic improvement of dairy cattle fertility.