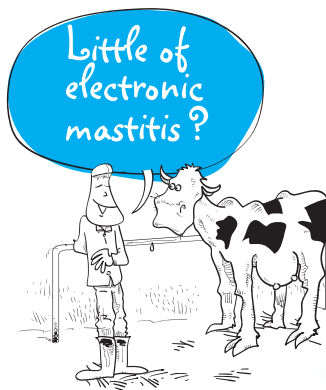




# The Network's footprints on Canadian farms



- 1 Support farm sustainability by limiting economic losses due to mastitis
- 2 Reduce antibiotic use
- 3 Fight antibiotic resistance and protect public health
- 4 Enhance the welfare of dairy cows and reduce animal suffering



The e-newsletter Mastitis-Flash is a good way to ensure a continuous link with our discoveries. It is a reflection of current events in the world of udder health.



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Networking Sponsors:



Réseau mammite  
Mastitis Network

Le lait, c'est du sérieux  
We're serious about milk

# Our Science, Your Milk

We are a strong research network across Canada since 2006.

A large team of scientists working in collaboration and dedicated to udder health.



[mastitisnetwork.org](http://mastitisnetwork.org)



## 3 research themes



### ANIMAL THEME

Increase cows capacity to resist and destroy invading pathogens. Aim to improve resistance through management, genetic selection, and enhancement of the immune system.

- Vaccine development
- New alternatives for modifying the immune response
- Selective treatment strategies



### PATHOGENS THEME

Demystify pathogens to implement the best curative and preventive practices against mastitis and develop technologies to control the disease.

- Characterization of pathogen virulence
- Validation of diagnostic methods
- Innovative treatments



### ENVIRONMENT THEME

Enhance the ability of dairy producers and their veterinarians to implement the most appropriate strategies and take the best decisions to fight against intramammary infections.

- Optimization of housing systems
- Measures of economic and sociological impact of mastitis



CREATE in Milk Quality  
for training...



## The experts of tomorrow

Our researchers guide the next generation of young scientists to follow in their footsteps, and beyond, by building on their strengths, developing their skills and helping them to achieve excellence. The CBMQRN's high-level training program is distinguished by providing interlaboratory internship opportunities, development activities and an exclusive online course in udder health.

*Committed to decrease the incidence of mastitis, reduce economic losses and maintain milk quality through concerted research and effective and rapid transfer of results to users.*

The span of the Network:

- 9 Canadian universities
- 1 Federal research center

#### British Columbia

- University of British Columbia

#### Alberta

- University of Calgary

#### Saskatchewan

- University of Saskatchewan and VIDO

#### Ontario

- University of Guelph

#### Quebec

- Université Laval
- McGill University
- Université de Montréal
- Université de Sherbrooke
- Dairy and Swine Research and Development Center - Sherbrooke

#### Prince Edward Island

- University of Prince Edward Island



Over  
**16,000**  
BOVINE  
MAMMARY  
PATHOGENS

## The Mastitis Pathogen Culture Collection contains long-lasting research material with over 16,000 bovine mammary pathogens

This pathogenic isolates collection is linked to a flexible and intuitive system allowing to integrate, share and extract demographic, epidemiological and bacterial data. A source of information for advanced research on udder health in Canada and elsewhere.

*From science to farm, the Network provides innovative science-based solutions according to Canadian dairy producers' priorities and the challenges they face.*



## Generating and promoting new knowledge

The knowledge transfer program, designed for dairy producers and for farm stakeholders, enhances our research results and makes them available for innovation. It offers a large range of online tools, activities and applied strategies to use on farm.