Expected Outcomes of Ongoing Research:

- Develop, measure and benchmark management practices for water conservation, feeding, cropping and manure storage to improve whole farm sustainability;
- Improve calculations for the optimal use of protein in dairy rations to benefit the cow, the farm operation and the environment;
- Identify economical and sustainable alternative methods for cow bedding, pest management and dairy cattle health;
- Investigate cow diets and the factors that can naturally enrich milk components like Omega 3s to benefit human health.
Ongoing Projects:

1. Agri-environmental assessment of Canadian dairy farms: Towards eco-efficient management of forage crops and manure –
   PIs: Martin Chantigny, AAFC-Quebec and Doris Pellerin, Université Laval

2. Mitigation of enteric methane production from dairy cows and impact on manure emissions: Filling knowledge gaps –
   PIs: Chaouki Benchaar, AAFC-Sherbrooke and Rachel Gervais, Université Laval

3. Balancing dairy rations for protein: filling the gaps and updating formulation models to reduce protein intake sensibly –
   PIs: Hélène Lapierre, AAFC-Sherbrooke and John Cant, University of Guelph

4. Water footprint assessment and optimization for Canadian dairy farms –
   PIs: Andrew VanderZaag, AAFC-Ottawa and Robert Gordon, University of Guelph

5. Development of an online interactive self-assessment and improvement tool (footprinter) to assess and compare production/management systems –
   PI: Edouard Clément, AGECO

6. Increasing the energy of Canadian forages fed to high producing dairy cows –
   PI: Annie Claessens, AAFC-Québec

7. Development of sustainable alternative sources of bedding for dairy cows –
   PI: Renée Bergeron, University of Guelph

8. NSERC Industrial Research Chair - Nutritional Control of the Production of Milk Components in Dairy Cows –
   Chair: Yvan Chouinard, Université Laval

2015-2016 Research Transfer Activities:

- 7 scientific papers were published in a peer-reviewed scientific journal
- 1 poster was presented in scientific conferences
- 8 information and technical reports were provided to the industry
- 9 invited presentations were delivered at national and international conferences
- 11 articles were published to transfer new knowledge to dairy farmers
- 11 workshops and presentations were delivered to farmers for knowledge transfer

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