# TO KILL TWO BIRDS WITH ONE STONE...A MULTIVALENT VACCINE FOR MASTITIS AND JOHNE'S DISEASE Dervel Felipe Díaz Herrera<sup>1</sup>, Céline Ster<sup>2</sup>, Pierre Lacasse<sup>2</sup>, François Malouin<sup>1</sup> 1: Biologie, Sciences, Université de Sherbrooke, 2: Sherbrooke Research and Development Centre, Agriculture and Agri-Food Canada, Sherbrooke.

MASTITIS Inflammation of the mammary gland Staphylococcus aureus (SA)



- 60 % of prevalence in Canadian dairy herds.
- Reduction of milk productivity.
- Leading cause of antibiotic use.
- Antibiotic residues in Milk.
- Annual costs ~900 million CAD (1).





