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ACCEPTED MANUSCRIPT

Resistance to gastrointestinal nematodes in dairy sheep: genetic variability and relevance of artificial infection of nucleus rams to select for resistant ewes on farms

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Highlights:

- FECs after experimental infections and FECs on farm are highly correlated.
- Dairy farm ewes born to resistant versus to susceptible rams have 50% fewer FEC.
- A sustainable strategy is to control GIN using genetic selection and anthelmintics.

Abstract

Breeding sheep for enhanced resistance to gastrointestinal parasites is a promising strategy to limit the use of anthelmintics due to the now widespread resistance of parasites to these molecules. This paper reports the genetic parameters estimated for parasite resistance and resilience traits in the Blond-faced Manech dairy sheep breed and the putative impacts of the

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