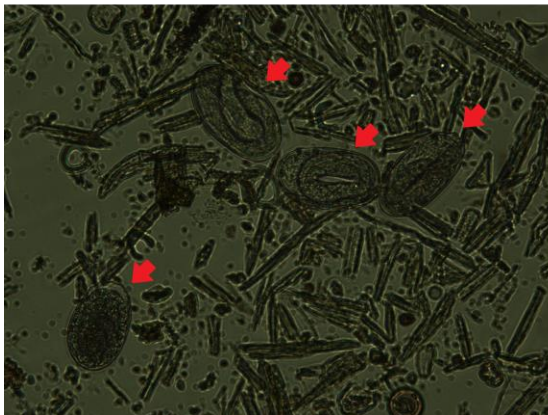

Recipients: Veterinarians working in the small ruminants sector
Sender : Diagnostic Service
Date : 2018-06-18
Objet: **New diagnostic test for *Haemonchus contortus***

Dear cutomers,

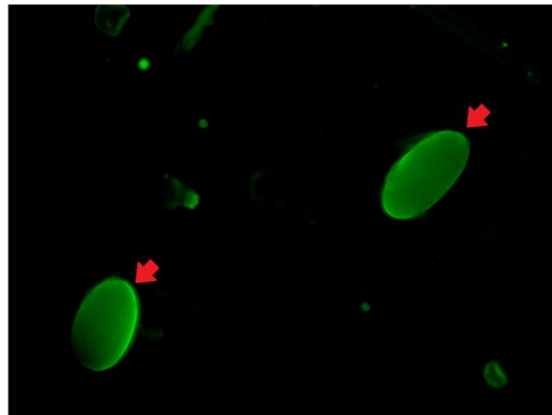
Parasitic problems are becoming more and more common in Quebec herds, especially in sheep grazing, which results in high economic losses due to a very marked reduction in animal welfare. Even more worrying, conventional approaches based on intensive use of anthelmintics are no longer appropriate, following the appearance and spread of resistance to molecules of the family of ivermectins and benzimidazoles. Among the pathogens present in these farms, *Haemonchus contortus* is undoubtedly the most frequent parasite, but also the most dangerous. Unfortunately, traditional laboratory tests did not allow the rapid identification of this parasite because all the eggs of the different members of Trichostrongylidae family share the same morphological characteristics. For this reason, if a diagnosis of *Haemonchus* was required, the only available technique was larval differentiation that took a minimum of 17 days.

More recently, the parasitology laboratory of Dr. Fernandez-Prada has developed a new fluorescence microscopy test, which allows the identification and quantification of *Haemonchus* eggs in faecal samples within 24 hours. This new technique will allow veterinarians and sheep producers to identify the parasites present in their herd, as well as to propose better treatments and management measures targeting this parasite.

Parasites of the *Trichostrongylidae* family



Haemonchus contortus



The test is now available but the submitted sample must have been pre-screened by Wisconsin or McMaster.

If you have any questions, do not hesitate to join us.

Dr. Christopher Fernandez-Prada

Professor and director of the parasitology laboratory

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