



Topic/Title

Enterisk metan fra småfe: Effekter av raseforskjeller i fordøyelsesanatomi og -fysiologi

Topic/Title

Enteric methane from small ruminants: breed differences in digestive anatomy- and physiology

Summary

In the “Grass 2 gas”-project we have investigated the effect of breed (Old Norwegian Spæl and Norwegian White Sheep) and forage quality on enteric methane emissions from adult ewes. Some of the found breed differences are from obvious differences, such as ewe weight etc. However, differences in methane emissions may also be due to breed differences in the digestive tract (e.g., rumen size, rumen microbiota etc.). We therefore propose a master thesis collecting and analyzing data from the abattoir, related to rumen anatomy and physiology. The field work (approx. 1-2 weeks) is planned for autumn 2022. The project will cover travel and boarding.

Subject area

enteric methane, ewes, breed differences, rumen anatomy, physiology

Language thesis

Norwegian or English

Bachelor or Master thesis

Master

Credits

30

Project/company

“Grass to gas”, IHA/BIOVIT, NMBU

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Topic/Title

Enterisk metan fra småfe: effekter av beitekvalitet og rase

Topic/Title

Enteric methane from small ruminants: effect of pasture quality and breed

Summary

In the "Grass 2 gas"-project we have investigated the effect of breed (Old Norwegian Spæl and Norwegian White Sheep) and forage quality on enteric methane emissions from adult ewes. The master student will investigate the effect of pasture quality on enteric methane production.

The student will use an existing dataset, collected autumn 2021, as a basis for the study.

Subject area

GHG, enteric methane, ewes, breed differences, pasture quality

Language thesis

Norwegian or English

Bachelor or Master thesis

Master

Credits

30

Project/company

"Grass to gas", IHA/BIOVIT, NMBU

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