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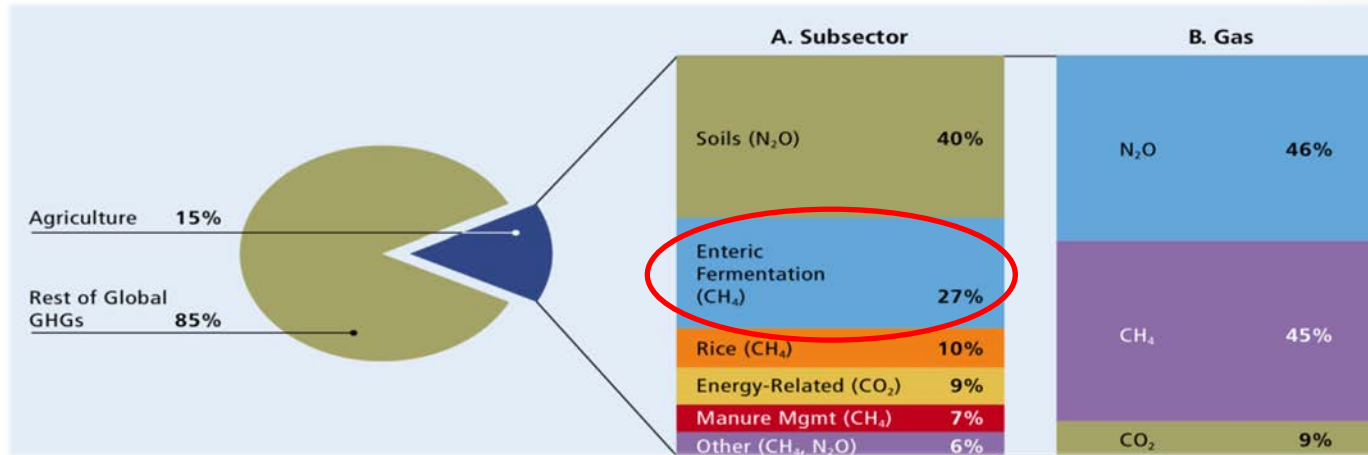
Faculty of Veterinary and Agricultural Sciences

Comparison of different cereal grains for their *in vitro* total gas and methane production

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1. Background



Starch in diet

- Methane reduction through favouring propionate production-hydrogen uptake
- Reductions from 31 to 42%
- Can lead to rumen acidosis
- Possibility to increase the fermentability of starch

2. Methodology

Aim: To study the effect of grains with different rates of starch degradability on *in vitro* methane production.

In sacco

- ✓ crushed corn
- ✓ crushed wheat
- ✓ dry rolled barley
- ✓ crushed barley
- ✓ incubated for up to 4 days in the rumen of dairy cows



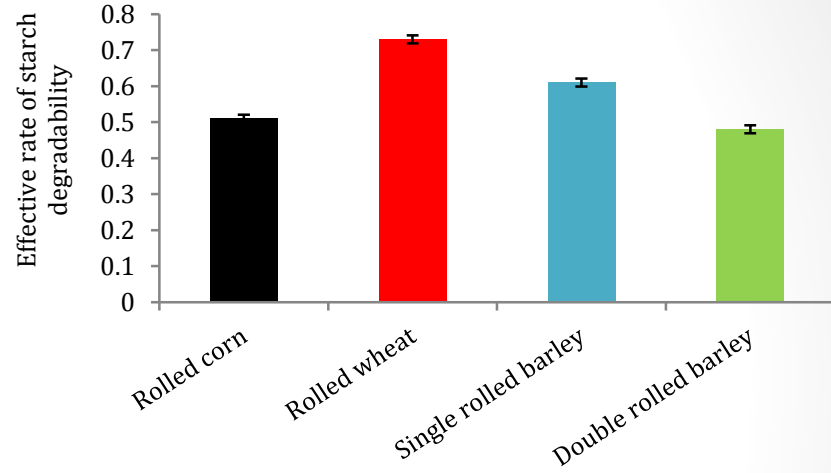
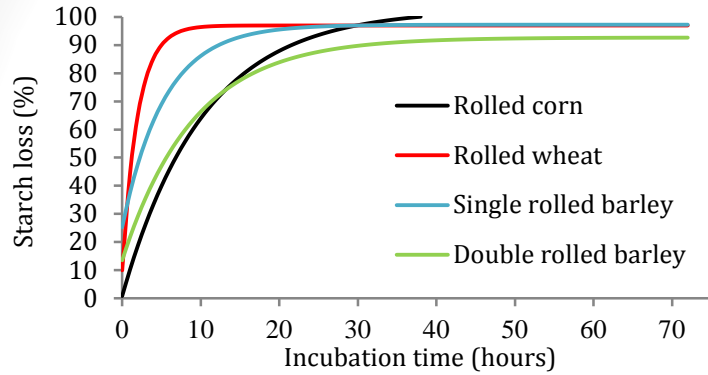
In vitro

- ✓ lucerne (control)
- ✓ corn
- ✓ wheat
- ✓ barley
- ✓ With different degrees of processing
- ✓ Incubated for 48 hours



3. Results

In sacco



In vitro

