

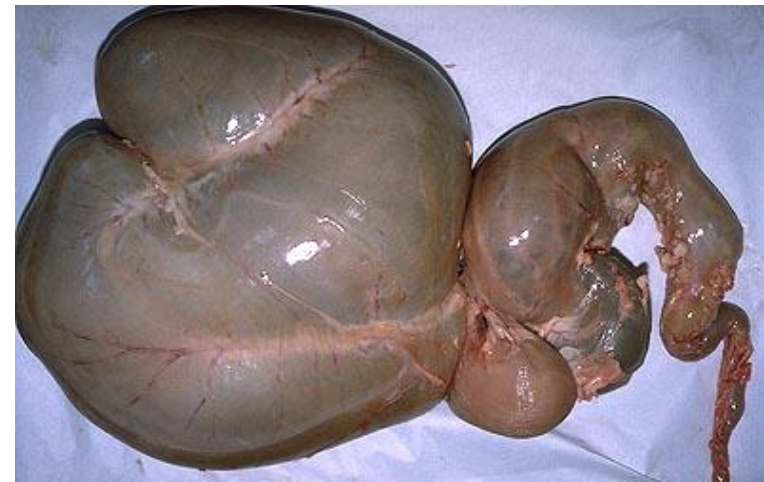
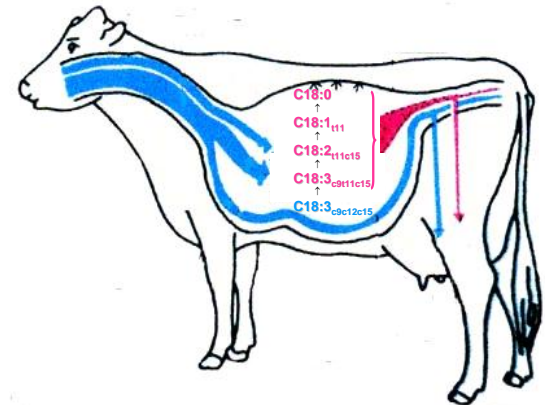
# *In vitro* assessment of rumen methane production

Veerle Fievez

Laboratory for Animal Nutrition and Animal Product Quality



# In vitro simulation



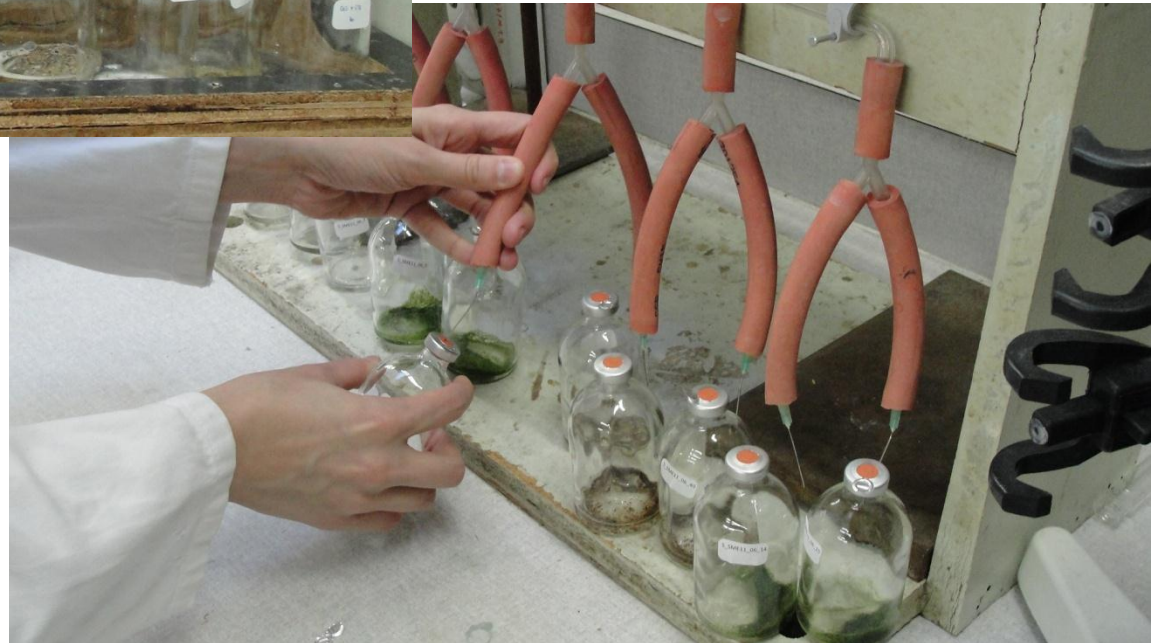
Simulation in the lab of digestive processes, occurring in the rumen



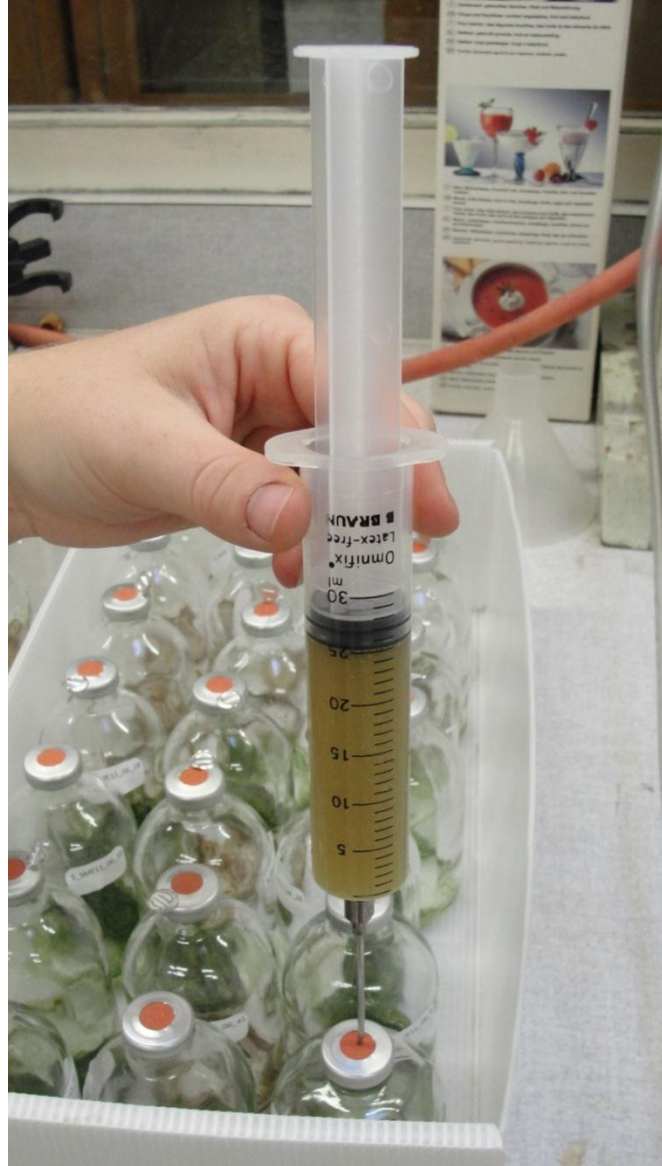
# Set-up batch in vitro



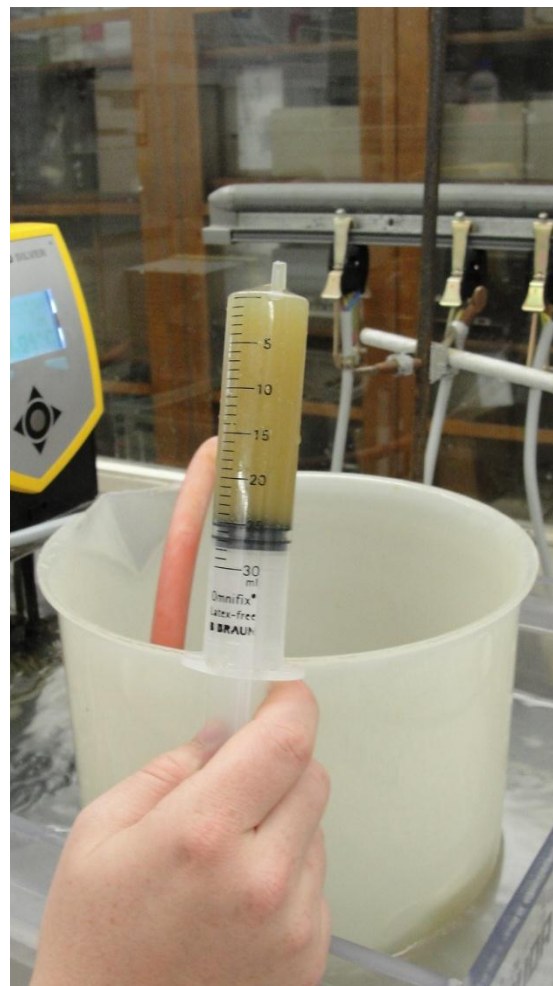
Substrate (simulation of basal diet)  
Additive  
Gas phase: CO<sub>2</sub>



# Set-up batch in vitro



Addition of buffered rumen inoculum



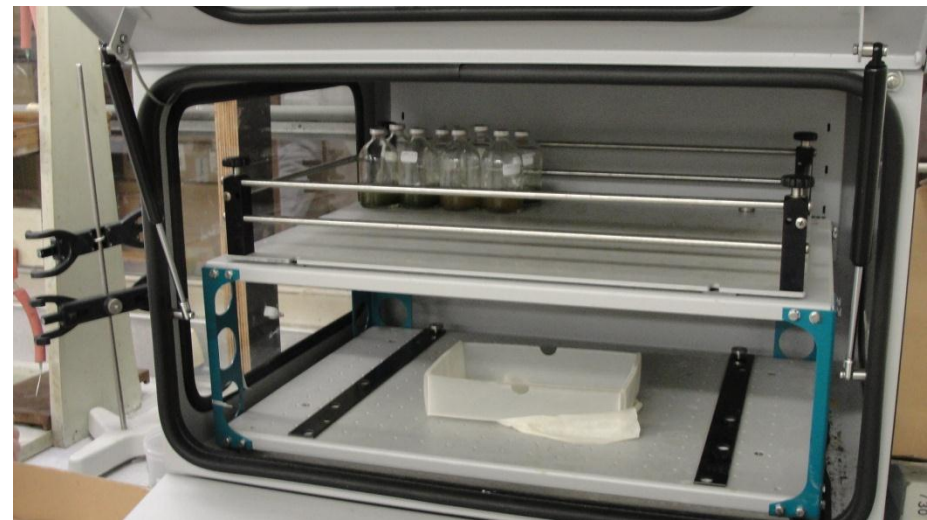
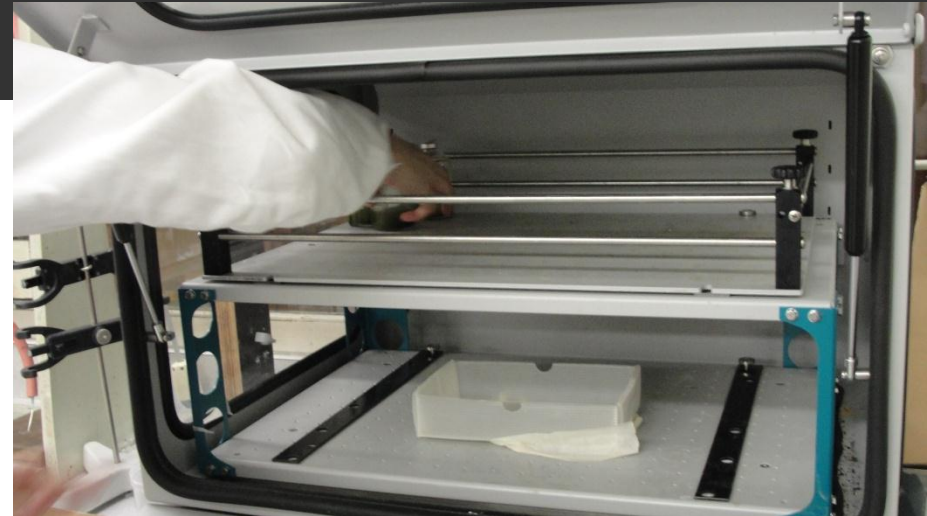


# Set-up batch in vitro system



Inoculum from fistulated sheep

# Set-up batch in vitro

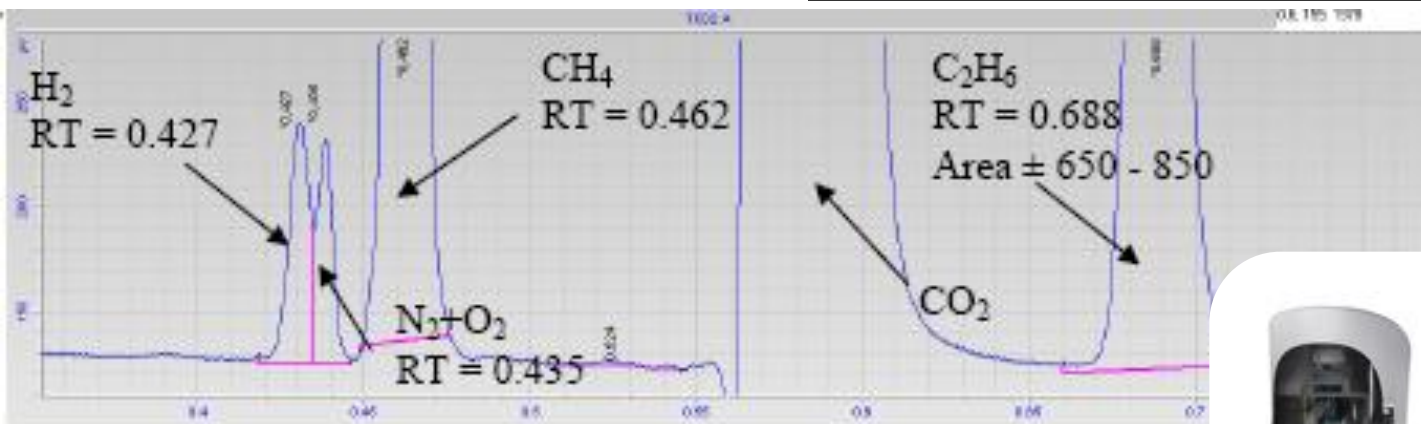


Incubation during 24h in incubator at 39°C





# Gas & SCFA measurements after 24h



Gas chromatogram obtained after 24h incubation



SCFA analysis by gas chromatography