

Training course

Respiration chamber and methane emission

Type of training: Face-to-face course

Organizing center: FBN Leibniz (Germany)

Target participants

Early career researchers, Research Technicians
Master or PhD students

Training objectives

After the training session, the trainee will be able to:

- Understand the principles of respiration chamber and GreenFeed
- Understand the relationships between methane production, intake and composition of feed
- Sample rumen fluid and analyze selected methane proxies

Pre requisite skills

Advanced PhD students and PostDocs with a Master in Animal Sciences or related fields

Program

Visit and introduction to Respiration Chamber and GreenFeed
Dietary factors influencing methane production
Host Physiology effects on methane production
Hands on training of oral rumen fluid sampling
Methane proxies
Lab analysis of methane proxies from ruminal fluid: Short-chain fatty acids using GC-FID
Lab analysis: Fecal archaeol extraction and subsequent GC-MS analysis

Pedagogical approach: Lectures, case study, practical sessions

Trainers

Cornelia Metges, Björn Kuhla, Michael Derno (FBN Leibniz)

Location: Leibniz Institute for Farm Animal Biology (FBN), Germany

Duration: 1.5 days

Dates of course

October 7th (afternoon) and 8th, 2019

Deadline for registration: 15th July 2019

Ref RES