Timetable: Advanced course "Cattle breeding for low methane emissions: From farm measurement to genetic progress" Zaragoza, Spain 24 – 28 February 2025

| Hour | Monday 24 | Tuesday 25 | Wednesday 26 | Thursday 27 | Friday 28 |
|----------------------------|---|--|--|--|--|
| 8:00-9:00 | | | | | |
| | | | | 6.1 – 6.2. Implementation of methane traits in breeding programs | |
| 9:00-10:00 | Welcome to participants, message from organisers. Programme | 3.1. Definition of methane phenotypes in Cattle O. Gonzalez-Recio, C. Manzanilla-Pech | 4.1.– 4.2. Estimation of genetic parameters and genetic models for methane emission B. Gredler-Grandl, C. Manzanilla-Pech | O. Gonzalez Recio | 2.7.1 Demonstration of different devices for Methane measurement devices Sniffers/Greenfeed (Freisoro) A. Garcia, I. Goiri, O. Gonzalez-Recio |
| 10:00-11:00 | | 3.2. Practical work: Editing raw data from | | 6.3. Case study: Examples of implementation methane traits in breeding programs: Australia, New Zealand, Spain | |
| | | sniffer and greenfeed O. Gonzalez-Recio, C. Manzanilla-Pech | | | Trip to NEIKER |
| 11:00-12:00 | explanation B. Gredler-Grandl, D. Yañez Ruiz | Coffee Break | Coffee Break | Coffee Break | |
| 12,00 12,00 | Overview of global GHG emissions and genetics developments for methane mitigation in ruminants | 3.2. Practical work: Editing raw data from sniffer and greenfeed | 4.3. Discussion session: Estimation of genetic parameters and genetic models for methane emission B. Gredler-Grandl, C. Manzanilla-Pech | 6.3. Case study: Examples of implementation methane traits in breeding programs: Canada, Netherlands | 2.7.2 Demonstration of devices for Methane measurement. Respiratory chambers (NEIKER) |
| 12:00-13:00 | H. Montgomery, R. Veerkamp | O. Gonzalez-Recio, C. Manzanilla-Pech | | | A. García, I. Goiri, O. Gonzalez-Recio |
| 13:00-14:00 | Lunch | Lunch | Lunch | 6.4. Discussion session. Implementation methane traits in breeding programs | Lunch |
| | | | | 7. Summary and final remarks | |
| 14:00-15:00 | 2.1 – 2.5 Methane measurement techniques A. Garcia | 3.2. Practical work: Editing raw data from sniffer and greenfeed O. Gonzalez-Recio, C. Manzanilla-Pech | 5.1. Overview of proxies to estimate methane emission. Mid infrared spectra A. Vanlierde | Lunch | Trip to Zaragoza |
| 15:00-16:00 | | 4.1.– 4.2. Estimation of genetic parameters and genetic models for methane emission B. Gredler-Grandl, C. Manzanilla-Pech | | | |
| 16:00-17:00 | Coffee Break | Coffee Break | Coffee Break | | |
| 17:00-18:00 18:00-19:00 | 2.6. Discussion session: Common problem and solutions for measuring methane A. Garcia, I. Goiri, O. Gonzalez-Recio | 4.1.– 4.2. Estimation of genetic parameters and genetic models for methane emission B. Gredler-Grandl, C. Manzanilla-Pech | 5.2. Overview of proxies to estimate methane emission. Microbiome O. Gonzalez Recio, Suzanne Rowe | Trip and overnight in Vitoria | |
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