The Erasmus IP program, University del Molise, Campobasso, Italy, June 15-28, 2014

Biotechnology in Animal Biodiversity and Food Resources

Day 0 Arrive
15.6.2014

Biotechnology in Animal Biodiversity

Day 1 9.00-11.00 Lecture
16.06.2014
- Animal Biodiversity **(prof. M. Bednarczyk, prof. P. Chrenek)**
- EFABIS – (FAO, Rome), biodiversity in EU and in the world (**prof. P. Chrenek**)
- Molecular-genetic methods in biodiversity (**prof. F. Pilla**)

11.00-16.00 Practical course
- Animal DNA isolation (**Dr. M. D' Andrea**)
- PCR analysis - paternity detection (**Dr. M. D´Andrea**)

Day 2 9.00-12.00 Lecture
17.6.2014
- Synchronization of estrus and ovulation of donors and recipients in process of embryotransfer (**assoc. prof. M. Capcarova**)
- Embryotransfer transfer (ET) (**prof. M. Gambacorta**)

12.00-16.00 Lecture
- Oestrus synchronization (**prof. M. Gambacorta**)
- The method and applications of inseminations artificial in cattle, pig and sheep (**assoc. prof. M. Capcarova, prof. P. Chrenek**)
- MOET system (**prof. P. Chrenek**)

Day 3 9.00–11.00 Practical course
18.6.2014
- Embryotransfer - video and interaction with the students (**prof. P. Chrenek**)
- Recovery and cryopresevation of spermatozoa -video (**prof. P. Chrenek**)
- Artificial Insemination – video and interaction with students (**prof. P. Chrenek**)

11.00–16.00 Practical course
- Synchronization of estrus and laparascopy technical in sheep (demonstration in the farm) (**prof. G. Maiorano**)

Day 4 9.00-11.00 Lecture
19.6.2014.01
- Cryopreservation of laboratory animal genetic resources (**prof. P. Chrenek**)
- Cryopreservation of animal genetic resources in situ and ex situ (**Prof. M. Bednarczyk**)

11.00-16.00 Practical course
- Semen cryopreservation (**Dr. N. Iaffaldano**)
- Evaluation of the ram semen quality by motility, viability, membrane integrity and DNA integrity (**Dr. N. Iaffaldano; Prof. A. Manchisi**)

Day 5 9.00-16.00
20.6.2014
- Farm of local breeds of cattle beef, sheep and pig (visit, **prof. G. Maiorano**)

Day 6 and 7 Free time (Visit of Campobasso city)
21.-22.6.2014

Biotechnology in Animal Food Resources

Day 8 9.00-12.00 Lecture
23.6.2014

- Basic statistical methods in Animal Biotechnological Research (G. **prof. Maiorano**)
- Nutrition and feeding as a critical point of milk production (**assoc. prof. B. Galik**)
- Nutrition and feeding as a critical point of meat production (a**ssoc. prof. B. Galik**)

12.00-16.00 Pratical course

- Evaluation of milk quality characteristics of cattle and sheep (**Dr. F. Vizzarri**)
- Evaluation of meat quality of cattle, pig and sheep (**prof. G. Maiorano)**

Day 9 9.00-11.00 Lecture
24.6.2014 - Microbiological analysis in milk and meat (**assoc. prof. E. Sorrentino**)

11.00-16.00 Practical course

- Microbiological method for milk and meat quality (**Dr. P. Tremonte**)

Day 10 9.00-10.00 Lecture
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25.6.2014 Legislative aspect of milk quality in EU and in the world (**assoc. prof. F. Bruno**)

10.00-16.00 Practical course

- Application of statistical methods for Animal Biotechnological Research (**prof. G. Maiorano**)

Day 11 9.00-16.00
26.6.2014 - Farm and a company of milk processed products (Mozzarella cheese, cheeses) (visit, **prof. G. Maiorano**)

Day 12 9.00-16.00
27.6.2014 - A company of meat processed products (visit, **prof. G. Maiorano**)

Day 13 Departure
28.6.2014