

NOVA-BOVA Postgraduate Course
Bovine reproduction (with particular emphasis on high production) and swine reproduction

Time: 09 – 13 May 2005

Place: Estonian Agricultural University,
Institute of Veterinary Medicine and Animal Science,
Kreutzwaldi 62, 51014 Tartu

Participants: PhD students from the Baltic and Nordic countries

Credits: 4 points (6 ECTS)

The aim of the course is to provide the participants with knowledge about the main causes that lead to low fertility in modern high yielding dairy cow and swine herds. Mechanisms of pathological changes and modern investigation methods in herd level and individual cow and sow level will be covered.

Monday, 09th of May

- 10.00 – 10.30 Coffee. Opening of the course
- 10.30 – 11.15 Situation in modern dairy herds in relation with high production and genetics (A. Waldmann, EAU)
- 11.15 – 12.30 Genetic influence and ovarian function, hormones of somatotropic axis and their relation with reproduction (A. Waldmann, EAU)
- 12.30 – 13.30 Lunch
- 13.30 – 14.15 Metabolic hormones and their relation with reproduction (Kjell Holtenius, SLU ?)
- 14.15 – 15.00 Negative energy balance and high yielding cow (Kjell Holtenius, SLU ?)
- 15.00 – 15.30 Coffee
- 15.30 – 17.00 Immunological mechanisms in high yielding cow (?)

Tuesday, 10th of May

- 9.00 – 10.30 Arachidonic acid metabolites (prostaglandins) in reproduction - their analytical methods and use (H. Kindahl, SLU)
- 10.30 – 11.00 Coffee
- 11.00 – 12.30 Normal and impaired uterine function in cow (K. Kask, EAU)
- 12.30 – 13.00 Lunch
- 13.00 – 14.30 Disturbances in ovarian function (H. Gustafsson, SLU)
- 14.30 – 15.00 Coffee
- 15.00 – 17. 00 Practical demonstration of organs and diagnostic tools at the clinic of EAU (K. Kask and J. Kurõkin EAU)

Wednesday, 11th of May

- 9.00 – 10.30 Repeat breeding in cattle (H. Gustafsson, SLU, J. Kurōkin EAU)
- 10.30 – 11.00 Coffee
- 11.00 – 12.30 Stillbirth in cattle - its relation to hormonal imbalance and placental well being (H. Kindahl, SLU)
- 12.30 – 13.00 Lunch
- 13.00 – 16.00 Practical demonstration of different laboratory methods at the laboratories of EAU (A. Waldmann, T. Tiirats, M. Valdmann)
- 16.00 – 16.30 Coffee
- 16.30 – 17.30 Presentations of students own projects

Thursday 12th of May

- 9.00 – 11.00 Modern technologies in cattle reproduction (Ü. Jaakma, J. Kurykin, EAU)
- 11.00 – 11.30 Coffee
- 11.30 – 12.15 Genetically modified cow: dream or reality (A. Karis, EAU)
- 12.15 – 13.00 Lunch
- 13.00 – 13.45 Reproductive endocrinology of the swine (overview) (O. Peltoniemi HU)
- 13.45 – 14.30 Prepuberty and puberty in gilts (O. Peltoniemi, HU)
- 14.30 – 15.00 Coffee
- 15.00 – 15.45 Postpartum ovarian function in sow (S. Einarsson, SLU)
- 15.45 – 17.00 Presentation of student own projects

Friday 13th of May

- 9.00 – 10.00 Disturbances in the ovarian function in the sow (S. Einarsson, SLU)
- 10.00 – 10.30 Coffee
- 10.30 – 11.15 Infections of the reproductive tract in the sow (S. Einarsson, SLU)
- 11.15 – 12.30 Seasonal infertility (O. Peltoniemi, HU)
- 12.30 – 13.30 Lunch
- 13.30 – 14.15 Repeat breeding in sow (S. Einarsson, SLU)
- 14.15 – 15.30 Presentation of students own projects
- 15.30 – 16.15 Concluding discussion (evaluation of the course)