



Biology of Lactation in Farm Animals 2018

Location: Valamar Lacroma, Elaphiti room, ul. Iva Dulcica 34, 20000, Dubrovnik, Croatia

Workshop programme

Saturday, August 25, 2018

- 13.00 – 13.45 Check-in for the workshop
13.45 – 14.00 Introduction by Rupert Bruckmaier and Helga Sauerwein
- Session I: Mammary development**
Chair: Helga Sauerwein
- 14.00 – 14.45 The pre-pubertal bovine mammary gland: Unlocking the potential of the future herd
Speaker: Adam Geiger (Zinpro Corporation, Eden Prairie, Minnesota, USA)
- 14.45 – 15.30 Mammary gland development in swine: embryo to early lactation
Speaker: Walter Hurley (Department of Animal Sciences, University of Illinois, Urbana, Illinois, USA)
- 15.30 – 15.45 Evaluation of 5-hydroxytryptophan on calcium metabolism and serotonin concentration
Speaker: Meghan K. Connelly (Department of Dairy Science, University of Wisconsin-Madison, Madison, USA)
- 15.45 – 16.15 **Coffee break**
- 16.15 – 17.00 Manipulation of serotonin during the peripartal period affects maternal bone health
Speaker: Laura Hernandez (Department of Dairy Science, University of Wisconsin, Madison, Madison, USA)
- 17.00 – 17.45 Mammary development in lactating sows: the importance of suckling
Speaker: Chantal Farmer (Agriculture and Agri-Food Canada, College St., Sherbrooke, QC, Canada)
- Session II: Regulation and manipulation of milk secretion at different stages of lactation**
Chair: Chantal Farmer
- 17.45 – 18.30 Inhibition of prolactin as a management tool in dairy husbandry
Speaker: Pierre Lacasse (Sherbrooke R&D Centre, AAFC, QC, Canada)

Sunday, August 26, 2018

- 08.15 – 09.00 Automated milk yield reduction before drying off
Speaker: Ute Müller (Institute of Animal Science, Department of Physiology and Hygiene, University of Bonn, Germany)
- 09.00 – 09.45 Nutritional and endocrine control of colostrogenesis in swine
Speaker: H el ene Quesnel (PEGASE, INRA, Agrocampus Ouest, France)
- Session III: Alternatives to the 305-d standard lactation**
Chair: Adam Geiger
- 09.45 – 10.30 Extended lactation



- Speaker: Jacob Sehested (Dept. of Animal Science, Dept. Of Agroecology and Dept. of Food science, Aarhus University, Denmark)
- 10.30 – 10.45 **Coffee break**
- 10.45 – 11.00 Economic and climate effects of extended lactation strategies in high-yielding dairy cows
Speaker: Jesper Overgard Lehmann (Department of Agroecology, Aarhus University, Denmark)
- 11.00 – 11.45 Customising dry period length: metabolic and behavioural effects
Speaker: Ariette van Knegsel (Adaptation Physiology Group, Wageningen University Research, Wageningen, the Netherlands)
- 11.45 – 12.30 The cellular mechanism underlying mammary tissue plasticity during lactation
Speaker: Marion Boutinaud (INRA, UMR PEGASE; France)
- 12.30 – 14.00 **Lunch break**
- Session IV: Old and new indicators in milk for health status and metabolic load**
Chair: Pierre Lacasse
- 14.00 – 14.15 Assessment of an intervention on the evolution of mastitis in dairy herds through multiple farm health records
Speaker: Peter Zieger (Diamond V, The Netherlands)
- 14.15 – 15.00 Suitability of established and novel indicators for assessing the metabolic status
Speaker: Josef Gross (Veterinary Physiology, University of Bern, Switzerland)
- 15.00 – 15.30 **Coffee break**
- 15.30 – 16.15 Proteomic approaches to control lactational parameters
Speaker: Peter David Eckersall (VetMedZg Proteomics Laboratory, Faculty of Veterinary Medicine, University of Zagreb, Croatia)
- Session V: New developments in milking routine**
Chair: Rupert Bruckmaier
- Introductory aspects of cow-milking machine interaction
- 16.15 – 16.30 Speaker: Rupert Bruckmaier (Veterinary Physiology, University of Bern, Switzerland)
- 16.30 – 17.15 Milking machine setting and teat condition
Speaker: Morten Dam Rasmussen (Department of Engineering, Aarhus University, Denmark)
- 17.15 – 18.00 Milking routines and cluster detachment levels in small ruminants
Speaker: Alen Dzidic (University of Zagreb, Faculty of Agriculture, Zagreb, Croatia)
- 18.00 – 18.45 Milking Machine Settings and Milking Efficiency
Speaker: Carl Oskar Paulrud (Delaval International, Sweden)
- 18.45 – 19.00 Changes in teat measures before, during and after machine milking determined by ultrasound and cutimeter measurements
Speaker: Marina Odorcic (Veterinary Physiology, University of Bern, Switzerland)