

SLUkurs

Syllabus

PVSoo86 Comparative Lactation Biology, 3.0 credits

Syllabus approved

2012-09-24

Subjects

Animal Science

Education cycle

Third cycle

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

PhD students in biology, medicine, nursing, veterinary medicine, animal science and similar.

Objective, including learning outcomes

To gain insight interactions between lactation and mammary health, between lactation and reproduction and also between mammary health and reproduction.

Basic principles of lactation will also be discussed. The course is tailored for a broad audience and will include translational aspects.

Content

In comparative lactation biology concepts from human lactation science and animal lactation science are compared and used to bridge knowledge gaps and stimulate discussions in different areas.

The course covers basic udder anatomy, mammary physiology, milk synthesis and milk ejection but will focus mostly on interactions between lactation, mammary health and reproduction. Removal of milk from the lactating mammary gland is crucial for maintaining lactation and is closely linked to mammary health. Aspects on milk removal will be dealt with in detail during the two-day CRU symposium "Lactation research in mammals and humans" that is included in the course. Effects of management and care routines for the lactating animal/mother on lactation, mammary health and reproduction will be discussed.

Requirements for examination

Successful completion requires 100% attendance, active participation in discussions during lectures and exercises, and completion and oral 15 min presentation of a course assignment relating the contents to current topics in his/her own research.

Additional information

The course is arranged within SLU's Research School in Translational and Comparative Medicine (TCM; www.slu.se/tcm).

The course starts with literature studies on Nov 28th and finishes on Dec 12th when a course project will be handed in. Students' attendance in Uppsala is required Dec 3-7 when lectures and exercises are given.

Responsible department

Department of Clinical Sciences