

Reproduction and biotechnology 2. – lectures
8th semester – 2024/2025. II.
TUESDAYS 2x45' from 15:15 – MAREK lecture hall (Internalmedicine.)

1.	4 Febr.	Small animal reproduction 1. Canine reproduction: physiology of the oestrus cycle in the bitch. Physiology and pathology of puberty. Estrus. 2. Methods for classifying stages of the canine estrous cycle. (<i>L. Müller</i>)
2.	11 Febr.	Small animal reproduction 3. Artificial insemination. 4. Physiology and diagnosis of pregnancy. (<i>L. Müller</i>)
3.	18 Febr.	Small animal reproduction 5. Parturition, dystocia 6. Peri- and postpartal diseases, introduction to small animal neonatology. (<i>L. Müller</i>)
4.	25 Febr	Small animal reproduction 7. Feline reproduction: estrous cycle, pregnancy, puberty. (<i>L. Müller</i>) (<i>1x45'</i>)
5.	4 March	Guest lecturer: <i>Beatriz Marcias Garcia</i> – Universidad de Extremadura Animal Medicine – Spain Oocyte retrieval by OPU, postmortem ovaries, and oocyte shipping Equine embryo production in the lab (procedure, what to expect clinically, donor mare management)
6.	11 March	Equine reproduction 1. Physiology of the oestrus cycle. The heat. The seasonality of the oestrus cycle. Puberty. 2. Anatomy, physiology of the equine genital system. Possibilities and limitations of inducing the first ovulation in the beginning of the breeding season. Oestrus synchronisation in the breeding season. 3. Equine pregnancy: Characteristics of embryonic and foetal development in the horse. (<i>B. Vincze</i>)
7.	18 March	Equine reproduction 4. Normal parturition in the mare, hormonal background and methods for induction of parturition. Prediction of parturition. 5. Onset of cyclic ovarian function after foaling. The foal heat. Reproductive management of the foaling mare. Endocrine tests in equine reproduction. (<i>A. Horváth</i>)
8.	25 March	Equine reproduction 6. The endocrinology of the equine pregnancy. Twin pregnancy and its management. 7. Reproductive management of breeding studs (operating with natural cover and artificial insemination). (<i>B. Vincze</i>)

Mid-term examinations (written, multi-choice test):

3, April – Thursday – 7:15

Retake midterm:

10, April – Thursday – 7:15

(Retake is for those students who could not write the test (because disease or shift), or who failed it.)