**Experimental animals – animal experiment course**

**Level „B”**

**5-14 November 2018**

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|  |  |  | ENGLISH COURSE |
| **day** | **time** | **length** | **title and speaker** |
| 5/11Monday | 9.00-9.45 | 1h | Replacement, Reduction and RefinementDr. Györgyi Szabó |
| 10.00-11.30 | 2h | Replacement - alternative methodsDr. Györgyi Szabó |
| LUNCH BREAK |
| 12.15-13.45 | 2h | Anatomy of rodentsDr. Domokos Csukás |
| 14.00-14.45 | 1h | The human clinical relevance of animal experiments – a general introductionProf. Dr. György Wéber |
| 15.00-16.30 | 2h | Anatomy of rabbits, dogs and pigsDr. Domokos Csukás |
| 6/11Tuesday | 8.30-10.00 | 2h | Nutrition of the laboratory animalsDr. Domokos Csukás |
| 10.15-11.45 | 2h | Welfare regulation of animal procedures, housing and careDr. István Gyertyán |
| LUNCH BREAK |
| 12.30-14.00 | 2h | Genetics and breeding of the laboratory animalsDr. Györgyi Szabó |
| 14.15-15.45 | 2h | Theoretical background and significance of animal experiments. Definition of laboratory animal. Animal models is medical research. Extrapolation the result to humanDr. Györgyi Szabó |
| 7/11Wednesday | 8.30-10.00 | 2h | Hygienic status levels of animal facilities, organizing a SPF transgenic breeding facilityDr. Domokos Csukás |
| 10.15-12.30 | 3h | Husbandry technologiesDr. Györgyi Szabó |
| LUNCH BREAK |
| 13.15-14.00 | 1h | Etology of laboratory animals, and their natural breedsDr. Györgyi Szabó |
| 14.15-15.45 | 2h | Statistical aspects of experimental resultsDr. László Molnár |
| 8/11Thursday | 8.30-10.00 | 2h | Behaviour of the laboratory animalsDr. Júlia Tímár |
| 10.15-11.45 | 2h | General principles of surgery. Rules of asepsis, antisepsisDr. Andrea Ferencz |
| LUNCH BREAK |
| 12.30-13.15 | 1h | Monitoring, recording, registering the vital signs of the laboratory animalsDr Domokos Csukás |
| 13.30-15.00 | 2h | Basic physiology of the laboratory animalsDr. Domokos Csukás |
| 15.15-16.00 | 1h | Differential diagnosis of laboratory animal diseases; management, lab tests, pathologyDr. Domokos Csukás |
| 9/11Friday | 8.30-9.15 | 1h | Wounds and wound careDr. Andrea Ferencz |
| 9.30-12.00 with a break | 3h | Nuclear transfer and other genetic reprogramming methodsProf. Dr. András Dinnyés |
| 12.15-13.00 | 1h | Transgenic fishAnita Rácz |
| 12/11Monday | 8.30-9.15 | 1h | In vitro methods for replacing the animal experimentsDr. Sebestyén Anna |
| 9.30-11.00 | 2h | Significant infectious disease of laboratory animals.Dr. Károly Erdélyi |
| 11.15-12.00 | 1h | Health status monitoring assessment in laboratory animalsDr. Károly Erdélyi |
| LUNCH BREAK |
| 12.45-15.15with a break | 3h | Mouse embryonic stem cells and chimeras in applied biologyDr. Elen Gócza |
| 15.30-16.15 | 1h | Recognition of pain, suffering and stress; General rules of anaesthesia and analgesia. Humane endpoints and euthanasiaDr. Domokos Csukás |
| 13/11Tuesday | 8.30-10.00 | 2h | Transgenic miceDr. Ferenc Erdélyi |
| 10.15-11.45 | 2h | Detailed physiology of the experimental animalsDr. Tamás Ivanics |
| LUNCH BREAK |
| 12.30-13.15 | 1h | Bleeding and surgical hemostasisDr. Andrea Ferencz |
| 13.30-14.15 | 1h | Handling and treatment routes of the laboratory animals. Health care of the laboratory animals.Dr. Domokos Csukás |
| 14.30-16.00 | 2h | Advanced anaestesiology, narcosis, analgesia part 2; Dosage and side effects of the applied drogsDr. Domokos Csukás |
| 14/11Wednesday | 8.30-9.15 | 1h | Avian embryomanipulationDr. Nándor Nagy |
| 9.30-11.00 | 2h | Special laboratory animalsDr. Györgyi Szabó |
| 11.15-12.00 | 1h | Planning and managing experiments and projectsDr. Györgyi Szabó |
| LUNCH BREAK |
| 12.45-13.30 | 1h | Humans and animal relations, ethics; Perspectives and limitations of animal usuage for scientific purpose. Animal welfare; Hungarian and foreign organisationsDr. Györgyi Szabó |
| 13.45-14.30 | 1h | Special preparation techniques in laboratory animalsDr. Krisztina Juhos |
| 14.45-15.30 | 1h  | Animal experiments and housing standardsDr. Gábor Bognár |