



## LABORATORY ANIMAL SCIENCE

February 26 - March 8, 2024 ::: 19<sup>th</sup> Edition

### Week 1

Day	Start	End	Theme
26-02-2024	09:00	09:30	LAS Course Opening
	09:30	10:30	History of animal use, ethics and the 3Rs - Part I
	10:45	11:45	History of animal use, ethics and the 3Rs - Part II
	12:00	13:00	A case of unethical treatment of laboratory animals (video and discussion)
	14:30	16:00	Good welfare - Good Science: the influence of husbandry and care on experimental outcome
	16:15	17:30	Basic biology of rodents
	17:30	18:30	Handling restraint and identification (theory)
	18:30	19:30	Group tasks (introduction)
27-02-2024	08:30	09:45	Husbandry routines and animal welfare
	10:00	11:15	Refinement of experimental procedures
	11:30	12:30	Human health hazards and safe practices in the animal facilities
	14:00	16:30	Handling and restraint (practical 1) [class A]
	14:00	16:30	Humane methods of killing [class B]
	17:00	19:30	Humane methods of killing [class A]
	17:00	19:30	Handling and restraint (practical 1) [class B]
28-02-2024	08:30	09:45	Minimally invasive procedures - administration of substances (theory)
	10:00	11:30	Breeding and management of genetically altered animals
	13:00	13:30	Demonstration (practical 2) [class B]
	13:00	15:30	Project preparation - exercises [class A]
	13:30	15:30	Minimally invasive procedures: administration of substances (practical 2) [class B]
	15:45	16:45	Minimally invasive procedures - sampling of biological fluids and tissues (theory)
	17:00	17:30	Demonstration (practical 2) [class A]
	17:00	19:30	Project preparation - exercises [class B]
	17:30	19:30	Minimally invasive procedures: administration of substances (practical 2) [class A]
29-02-2024	08:30	10:30	Design of procedures and projects (level 1)
	10:45	12:30	Design of procedures and projects (level 1)
	13:30	16:00	Minimally invasive procedures: sampling (practical 3) [class A]
	13:30	16:00	Project preparation - self-study [class B]
	16:30	19:00	Project preparation - self-study [class A]
	16:30	19:00	Minimally invasive procedures: sampling (practical 3) [class B]

**Week 1 (cont.)**

Day	Start	End	Theme
01-03-2024	09:00	10:00	Health status and animal facility barriers
	10:15	11:30	National Legislation
	11:45	13:00	National and international legal issues
	14:00	14:45	Project preparation / self-study
	14:45	16:15	Anaesthesia for minor procedures in rodents
	16:30	17:30	Health monitoring and diseases of lab animals
	17:45	18:45	Recognition of pain, suffering and distress

**Week 2**

Day	Start	End	Theme
04-03-2024	08:30	10:00	Principles and techniques of Surgery and Microsurgery
	12:00	13:30	Harm-benefit analysis, severity classification and culture of care
	15:15	17:15	Ethics, animal welfare and the 3Rs (level 2)
	17:30	18:30	Welfare assessment
05-03-2024	08:30	11:00	Study design and Statistics
	11:00	12:00	Colony management and genetic drifting
	12:00	13:00	Animal facilities Manual
	15:00	16:30	Project preparation / self-study
	16:30	18:00	GLP and the ARRIVE guidelines
	18:00	19:15	Project preparation / self-study
06-03-2024	08:30	10:00	Implementing the 3Rs and using alternatives
	10:00	10:30	Introduction to QuizOne (preparation for exam)
	10:30	12:00	Project preparation / self-study
	12:00	13:00	Visit to the Central Animal Facility
	14:00	18:00	Project preparation / self-study
07-03-2024	09:00	12:00	Project preparation / self-study
	12:00	13:00	Visit to the Central Animal Facility
	14:00	16:30	Project preparation / self-study
	17:00	19:00	Examination
08-03-2024	09:00	12:30	Project preparation / self-study
	13:30	17:00	Project presentation and discussion
	17:00	17:30	Course evaluation

***For the students enrolled in the MSc and PhD programs of the School of Medicine the course includes additional weeks (from March 15<sup>th</sup> to May15<sup>th</sup> 2024) for practical training under supervision.***