

Program of Study : General Medicine

Course : Animal Models of Human Diseases

Abbreviation : MTM/VAA21

Schedule : 10 hours of lectures

Course Distribution : 4. year, 1. semester

Number of credits : 3

Course form : Lecture, explanation, discussion, work with text, observation, projection, demonstration, practice

Lectures:

Teachers: MUDr. Petr Džubák, Ph.D., MVDr. Miroslav Popper, Mgr. Miloš Petřík, Ph.D.

Study: Continous

	Date 2022	Subject	hours	Teacher
1.	3.11.	Laboratory animals from the genetic perspectives, the influence of external factors on lab.animal, animal environment, breed types classifications, gnotobiology, principles of experimental work with laboratory animals. Animal models of cancer and metabolic diseases.	9:30-12:00	Džubák
2.	10.11.	Anesthesia and general principles of surgery, breeding and reproduction, physiological data of laboratory animals, the anatomical differences between species. Monitoring of health status of rodents and rabbits in breeding and experimental facilities, important disease of laboratory mice, rats and rabbits.	9:30-12:00	Popper
3.	24.11.	ÚMTM tour focusing on animal facility and animal experiments. Imaging methods (UZ, radioisotopic methods, MRI) used in the research of human diseases.	9:30-12:00	Petřík

Completed by: Credit

Requirements:

1. 100% attendance at the seminar

Successful completion of the final interview. The students should have knowledge of animal welfare and basic principles of the animal handling.

In the event of failure to meet the conditions set above, the credit will not be awarded.

Literature:

Doležal Dalibor: Práce s laboratorními zvířaty - Laboratorní myš, potkan a králík. Univ.Palackého v Olomouci, 2011. ISBN: 978-80-244-2947-2