

Laboratory Animal Science Seminar (2022)

1. Course Aims

Disease model animals for human are indispensable for basic research in the medical field.

Therefore the main aims of this course are follows:

- (1) Proper breeding and management of animal models for human diseases.
- (2) Laws and regulations related to animal experiments and ethics of animal experiments.
- (3) Points necessary for designing an appropriate animal experiment.
- (4) Proper handling of experimental animals and appropriate procedures for animal experiments.

Through these, students learn the appropriate research methods using diseases animal that can contribute to the development of medical care.

2. Instructor

Shizuko NAGAO, Ph.D., Masanori KUGITA, Ph.D., Kanako KUMAMOTO, Ph.D.,
Aya Yoshimura, Ph.D.

3. Date of Seminar

	No.	English	Seminar room	Starting time
Selection seminar	1	June 20 (Mon)	Web (Teams)	18:00
	2	June 22 (Wed)		
	3	June 24 (Fri)		
	4	June 29 (Wed)	University Building No. 1 3rd basement floor	
	5	June 30 (Thu)		
	6	July 5 (Tue)		
	7	July 6 (Wed)		

4. Grading Policies

Class attendance and attitude in class:50% and short reports:50%.

5. Course Schedule and Objectives

No.	Course Schedule (topic for each time) and Objectives
1*	Lecture- Animal experiments, and handling of laboratory animals. Breeding and storage of laboratory animals
2*	Lecture- Law for the Humane Treatment and Management of Animals, related laws, ordinances, guidelines. Regulations for the Management of Laboratory Animals in Fujita Health University and guidelines
3*	Lecture- How to get your safety in animal experiment How to animal experimental plan How to use the facility Topics about animal experiments
<p>Objectives: No.1-3 The goals of this course are to</p> <ul style="list-style-type: none"> - be able to learn and explain the basics of proper breeding, breeding and management methods. - be able to understand and explain relevant laws and ethics of animal experiments. - be able to learn how to formulate an animal experiment plan and state logically. 	
4*	Practice- Handling of laboratory animals, Administration to laboratory animals
5&	Practice- How to animal experiments; Inhalation anesthesia, CT imaging (simple, contrast agent)
6&	Practice- How to animal experiments; Anesthetic injection, surgery
7&	Practice- How to animal experiments; draw blood, organ observation
<p>Objectives: No.4-7 The goals of this course are to</p> <ul style="list-style-type: none"> - be able to learn and practice experimental animal handling and animal experimentation techniques. 	

*: Required, &: option

6. Notice for Students

Students should keep positive attitude.

If students wish to conduct an animal experiment when creating the master's thesis, you must attend the course.