Category	Basic subjects		
(科目区分)			
Course Title	Introduction to Animal experiment		
(授業科目名)			
Instructors	Shinsuke Seki	Academic Year	4.0
(担当者名)		(配当年次)	1,2
Required Course /		Credits	
Elective Course	Elective Course	(単位数)	1
(必修/選択)		(半世級)	
Class Format	Lecture: 1-5, Experimental practice: 6-15		
(授業形態)			
Schedule	2025. 4. – 2025. 9. (Details of schedule are negotiable)		
(開講期間)			
Class Date/Period	Every Friday 18:00 – 21:30 (Details of schedule are negotiable)		
(開講曜日・時間)			

Course Outline/ Course Objectives (授業の概要・到達目標)

Objective: understanding animal experiments, because it is essential for medical education and research. Goal of this course: learing the knowledges and skilles to do animal experiments, understanding the principles of animal welfare.

Course Planning (授業計画)

	Course Outline/ Course Objectives (授業の概要及び到達目標) (Contents of Class) ((授業内容))	Instructor (担当教員名)	Department (講座名) Class Room [実施場所]	
1	Law and ethics for Anima experiment	Shinsuke Seki	Shinsuke Seki	
2	Proper Animal experiment	Shinsuke Seki	Experimental Animal Division (Seminar room or ONLINE	
3	Significance of Animal experiments	Shinsuke Seki		
4	Experiment with transgenic animals, Genetic engineering I Shinsuke Seki		lecture with zoom]	
5	Experiment with transgenic animals, Genetic engineering II	Shinsuke Seki		
6	Basic skills with mice I	Shinsuke Seki		
7	Basic skills with mice II	Shinsuke Seki		
8	Basic skills with mice III	Shinsuke Seki		
9	Basic skills with rat I	Shinsuke Seki	Experimental Animal Division Laboratory of Experimental Animal Division	
10	Basic skills with rat II	Shinsuke Seki		
11	Basic skills with rabbit	Shinsuke Seki		
12	Cryopreservation of sperm	Shinsuke Seki		
13	Superovulation treatment, in vitro fertilization	Shinsuke Seki		
14	Cryopreservation of embryos Shinsuke Seki			
15	Small fish as new experimental animals	Shinsuke Seki		

Grading Criteria (成績評価の基準と方法)

Attendance records, oral examination, or practical training

Contact Information (問い合わせ先(氏名,メールアドレス等))

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Comment (その他特記事項)

Schedule can be changed if students can not attend.