

Category (科目区分)	Basic subjects		
Course Title (授業科目名)	Introduction to Animal experiment		
Instructors (担当者名)	Shinsuke Seki	Academic Year (配当年次)	1,2
Required Course / Elective Course (必修/選択)	Elective Course	Credits (単位数)	1
Class Format (授業形態)	Lecture: 1-6, Experimental practice: 7-15		
Schedule (開講期間)	2024. 4. - 2024. 9. (Details of schedule are negotiable)		
Class Date/Period (開講曜日・時間)	Every Friday 18:00 - 21:30 (Details of schedule are negotiable)		
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: learning the knowledges and skills 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	Experimental Animal Division [Seminar room or ONLINE lecture with zoom]
2	Proper Animal experiment	Shinsuke Seki	
3	Significance of Animal experiments	Shinsuke Seki	
4	Experiment with transgenic animals, Genetic engineering I	Shinsuke Seki	
5	Experiment with transgenic animals, Genetic engineering II	Shinsuke Seki	
6	Reproductive biotechnology	Wataru Yamazaki	
7	Basic skills with mice I	Shinsuke Seki	Experimental Animal Division [Laboratory of Experimental Animal Division]
8	Basic skills with mice II	Shinsuke Seki	
9	Basic skills with mice III	Shinsuke Seki	
10	Basic skills with rat I	Shinsuke Seki	
11	Basic skills with rat II	Shinsuke Seki	
12	Basic skills with rabbit	Shinsuke Seki	
13	Cryopreservation of sperm	Shinsuke Seki	
14	Cryopreservation of embryos	Shinsuke Seki	
15	Superovulation treatment, in vitro fertilization	Wataru Yamazaki	
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))			

	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]
Name: Shinsuke Seki / E-mail: sseki@gipc.akita-u.ac.jp			
Coment (その他特記事項)			
Schedule can be changed if students can not attend.			