

Laboratory Animal Science 2022

Course coordinator:

成功大學

許育祥 (brianhsu@mail.ncku.edu.tw)

國家動物中心

秦咸靜 (geniechin@nlac.narl.org.tw)

Class meetings: Tuesday, 10:10-12:00 a.m.

Lecture Room: 303 D, College of Medicine

This is a cross-institutional course between NCKU School of Medicine and National Laboratory Animal Center (國家實驗動物中心). This one-semester two-credit lecture is designed for PhD and master students who are interested in using laboratory animals in biomedical research. We will introduce the knowledge and concept of the laboratory animal and select several critical topics relevant for their applications in biomedical research. The course will include lecture, site visit, and class discussion. In the final, everyone is required to participate in an in-class examination.

Grading Policy: Participation 70%, Presentation/Discussion 30%

(Students with absence more than 3 times will be considered Fail)

<u>Date</u>	<u>Topic</u>	<u>Lecturer</u>
2/15	Introduction	許育祥
2/22	Nomenclature, genetic quality control and cryopreservation	秦咸靜(NLAC)
3/1	Knockout mice and advanced targeting technique	蔣思澈(NLAC)
3/8	Surgery, anesthesia, and anti-pain	江佩儒(NLAC)
3/15	Euthanasia, gross anatomy and biopsy	陳幼嶺(NLAC)
3/22	Modeling human disease in Zebrafish	傅子芳
3/29	Modeling human disease in Drosophila	顏賢章
4/5	Holiday	
4/12	Application of embryo manipulation in mammals	楊尚訓
4/19	大小鼠臨床觀察與疼痛評估	陳姿妤(NLAC)
4/26	蝦類暨魚類微生物模式之應用	王涵青
5/3	Marine animal model for biological research	何宣慶(海生館)
5/10	腫瘤與免疫模式鼠之應用	王瑞鈴(NLAC)
5/17	Experimental design for animal studies	余俊強
5/24	IACUC 的角色與職責/實驗動物中心感染控制	莊子林/楊尚訓
5/31	動物行為實驗	梅玉瑩(NLAC)
6/7	Site visit—NLAC-Southern Center (9:30~11:30)	許育祥/林怡玲(NLAC)
6/14	NCKU Laboratory Animal Center core facility	方榮華/楊尚訓

* 期末考週：6/13-6/17