

Laboratory Animal Science 2018

Course coordinator: **Chun-Keung Yu** 余俊強 (dckyu@mail.ncku.edu.tw)
Yu-Hsiang Hsu 許育祥 (brianhsu@mail.ncku.edu.tw)

Class meetings: Monday 10:10-12:00 a.m.
Lecture Room: 202 D, School 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: Presentation/Examination 50%, Discussion/Participation 50%

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

<u>Date</u>	<u>Topic</u>	<u>Lecturer</u>
9/10	Introduction	許育祥
9/17	Animal cares and ethical issues of animal research	周京玉(NHRI)
9/24	Nation Holiday	
10/1	Surgery, anesthesia, and anti-pain	_____(NLAC)
10/8	Modeling human disease in Zebrafish	傅子芳
10/15	Euthanasia, gross anatomy and biopsy	_____(NLAC)
10/22	Modeling human disease in Drosophila	顏賢章
10/29	Application of embryo manipulation in mammals	楊尚訓
11/5	Knockout mice and advanced targeting technique	蔣思澈(NLAC)
11/12	蝦類暨魚類微生物模式之應用	王涵青
11/19	腫瘤與免疫模式鼠之應用	王瑞鈴(NLAC)
11/26	Marine animal model for biological research	李幸慧(海生館)
12/3	中大動物之照護管理與試驗應用	_____(NLAC)
12/10	Animal model of bone disease in murine	許育祥
12/17	Site visit – NLAC-Southern Center (9:30~11:30 Tuesday)	許育祥
12/24	NCKU Laboratory Animal Center core facility	方榮華/蔡曜聲
12/31	Bridge Holiday	
1/7	Discussion	許育祥