

# 110-1 Introduction to Research 研究導論

**Time:** Tuesdays 13:10 - 15:00  
**Classroom:** Room 604 ( 醫學院 604 教室 )  
**Coordinator:** Chi-Wu Chiang 蔣輯武(ext. 3637) ([chiangcw@mail.ncku.edu.tw](mailto:chiangcw@mail.ncku.edu.tw))  
**Teaching Assistant:** 陳靜儀 章晏銘 (ext.3591)

2021/4/21 製作

**Course Objectives:** This course introduces graduate students to scientific integrity and research ethics, biosafety, time management, hypothesis testing, scientific reading and communication, abstract/poster/proposal writing, and an overview of various biomedical methodologies and technologies. Students will also be exposed to current pharmaceutical developments or job opportunities in Taiwan and Asia.

**Course Format:** A weekly 2-hour course and each topic will be covered in 2 sequential sessions with a combination of informal didactic presentation by the faculty, as well as discussion, oral and written presentation and hands-on planning by the students. **English** is used in the classroom and in written reports.

**Grading Criteria:** Students are evaluated based on attendance and classroom participation/performance (30%), assignments (40%), and Final report (30%) (Turn in the report no later than 5 pm on 01/05/2022).

## 課程進度 Course Progress Outline

序	日期	授課教師	主題 Topic
1	9/21	Moon Festival	No class
	9/28	Chi-Wu Chiang 蔣輯武	Scientific Integrity*
2	10/5 <sup>#</sup>	Pao-Lin Kuo 郭保麟	Ethical Issues of Researches Involving Humans as well as Animals*
3	10/12	Ming-Jer Tang 湯銘哲	Issues in Publication of Data*
4	10/19	Shaw-Jeng Tsai 蔡少正	Issues Related to Institutional Review Board (IRB)*
5	10/26	Ching-Hao Teng 鄧景浩	Biosafety and Lab safety
6	11/2	Li-Wha Wu 吳梨華	Scientific Reading I (Journal formats, Data presentation & Interpretation, etc.)
7	11/9	Li-Wha Wu 吳梨華	Scientific Reading II (Journal formats, Data presentation & Interpretation, etc.)
8	11/16	Shainn-Wei Wang 王憲威	Scientific Writing I (Abstract & Poster)
9	11/23	Shainn-Wei Wang 王憲威	Scientific Writing II (Results)
10	11/30	Chi-Wu Chiang 蔣輯武	Communication Skills I (General and interpersonal skills)
11	12/7	Chi-Wu Chiang 蔣輯武	Communication Skills II (Scientific presentation skills)
12	12/14	Chi-Wu Chiang 蔣輯武	Methodology in Biomedical Research-Focusing on Molecular Biology
13	12/21	Ching-Hao Teng 鄧景浩	Methodology in Biomedical Research-Focusing on Bacteriology
14	12/28	To be announced	Experiences from Bench Side to Industry
15	1/4/2022	Jason Chen 陳嘉興	Industrial Experiences
16	1/11/2022	Nanshan Chang 張南山	Animal Models for Human Diseases

#The lecture will be rescheduled. \* These lectures are related to research ethics. It is a mandatory requirement to take at least 6 h research ethics lectures for working under government-funded research grant.

方法	百分比%	閱讀、理解與運用專業知識	彙整新知與良好的溝通能力	解決研究問題的能力
出席與課堂參與: Attendance, classroom participation & performance	30	V	V	V
作業: Assignments	40	V	V	V
期末報告: Final report	30	V	V	V