

## 109-1

## 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:** (ext.3591)

2020/8/04 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 01/05/2021).

## 課程進度 Course Progress Outline

| 序  | 日期    | 授課教師                 | 主題 Topic   |
|----|-------|----------------------|--|
| 1  | 9/8   | Chi-Wu Chiang 蔣輯武    | Scientific Integrity   |
| 2  | 9/15* | Pao-Lin Kuo 郭保麟      | Ethical Issues of Researches Involving Humans as well as Animals               |
| 3  | 9/22  | Alice Y.W. Chang 張雅雯 | Experiences in Institutional Review Board (IRB)                                |
| 4  | 9/29  | Alice Y.W. Chang 張雅雯 | Issues in Publication of Data  |
| 5  | 10/6  | Ching-Hao Teng 鄧景浩   | Biosafety and Lab safety   |
| 6  | 10/13 | Nanshan Chang 張南山    | Scientific Reading (Journal formats, Data presentation & Interpretation, etc.) |
| 7  | 10/20 | Shainn-Wei Wang 王憲威  | Scientific Writing I (Abstract & Poster)                                       |
| 8  | 10/27 | Shainn-Wei Wang 王憲威  | Scientific Writing II (Results)  |
| 9  | 11/3  | Chi-Wu Chiang 蔣輯武    | Communication Skills I (General and interpersonal skills)                      |
| 10 | 11/10 | Chi-Wu Chiang 蔣輯武    | Communication Skills II (Scientific presentation skills)                       |
| 11 | 11/17 | Chi-Wu Chiang 蔣輯武    | Methodology in Biomedical Research-Focusing on Molecular Biology               |
| 12 | 11/24 | Ching-Hao Teng 鄧景浩   | Methodology in Biomedical Research-Focusing on Bacteriology                    |
| 13 | 12/1  | Chi-Wu Chiang 蔣輯武    | To Become a Successful Researcher  |
| 14 | 12/8  | Sareina Wu 吳瓊媛       | Experiences from Bench Side to Industry  |
| 15 | 12/15 | Jason Chen 陳嘉興       | Industrial Experiences   |
| 16 | 12/22 | Nanshan Chang 張南山    | Animal Models for Human Diseases   |
| 17 | 12/29 | Chi-Wu Chiang 蔣輯武    | Final Report   |

\*The lecture will be rescheduled to 9/14.

| 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         |