

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)
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 [#] | 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 |