

Introduction to Research - Fall 2013

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%).

Time: Tuesdays 13:10 - 15:00
Classroom: Lecture Room 2, B1 floor, Uni-President Health & Research Building
 統一健康研究大樓 B1 樓 第二會議室
Coordinator: Christina Chang 張玲(ext. 3615) (clchang@mail.ncku.edu.tw)
 Chi-Wu Chiang 蔣輯武(ext. 3637) (chiangcw@mail.ncku.edu.tw)
Teaching Assistant: Ye Vone Yap 葉綺雯(ext.3621) (yapyevone@gmail.com)

2013/9/16

Dates	Topics	Lecturers
09/17/2013	Scientific Integrity & Keeping Lab Records	Christina Chang 張玲
09/24/2013	How to be a Good Researcher?	Chi-Wu Chiang 蔣輯武
10/01/2013	Research Resources (e.g., public databases, tools, protocols)	Christina Chang 張玲
10/08/2013	Biosafety and Lab Safety	Ching-Hao Teng 鄧景浩
10/15/2013	Scientific Reading (journal formats, data presentation & interpretation, etc.)	Li-Wha Wu 吳梨華
10/22/2013	Communication Skills (interpersonal & scientific)	Larry Paris
10/29/2013	Scientific Writing (abstract & poster)	Shainn-Wei Wang 王憲威
11/05/2013	Your Favorite Nobel Laureates	Chi-Wu Chiang 蔣輯武
11/12/2013	Potential Career Opportunities	To be announced
11/19/2013	Animal Models for Human Disease (student oral presentation)	Christina Chang 張玲
11/26/2013	Methodology in Molecular Biology	Chi-Wu Chiang 蔣輯武
12/03/2013	Methodology in Cell Biology	Li-Wha Wu 吳梨華
12/10/2013	Methodology in Bacteriology	Ching-Hao Teng 鄧景浩
12/17/2013	Methodology in Protein Chemistry and Proteomics	Nanshan Chang 張南山
12/24/2013	Methodology in Virology	Shainn-Wei Wang 王憲威
12/31/2013	Methodology in Genetics & Epigenetics	Christina Chang 張玲
01/07/2014	Final Report: a short written proposal applying one or more methodologies to student's own research	Christina Chang 張玲