

Introduction to Research - Fall 2011

Course Objectives: This course introduces graduate students to ethical, biosafety, communication and methodological aspects of biomedical research. Students will also learn current pharmaceutical development or job opportunities in Taiwan and Asia. Students are expected to examine basic methodologies of experimental research, and write a short research proposal applying one or more methodologies to his/her own research.

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 and presentation by the students. English is used in the classroom and in written reports.

Grading Criteria: Students are evaluated based on attendance and classroom performance (20%), assignments (50%), 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
Coordinators: Christina Chang 張玲(ext. 3615) & Chi-Wu Chiang 蔣輯武(ext. 3637)
Teaching Assistant: Kyle Hsu 許人凱(ext.3621)

Dates	Topics	Lecturers
09/13/2011	Doing Research & Scientific Integrity	Christina Chang 張玲
09/20/2011	Keeping Lab Records	Christina Chang 張玲
09/27/2011	Research Project & Time Management	Larry Paris
10/04/2011	Scientific Reading (journal formats, hypothesis formation, data presentation & interpretation, etc.)	Li-Wha Wu 吳梨華
10/11/2011	Communication Skills (interpersonal & scientific)	Chi-Wu Chiang 蔣輯武
10/18/2011	Scientific Writing (abstract & poster)	Shainn-Wei Wang 王憲威
10/25/2011	Biosafety and Lab Safety	Ching-Hao Teng 鄧景浩
11/01/2011	Intellectual Property Consulting	Gautam Malhotra (hosted by 張玲)
11/08/2011	Animal Models for Human Disease	Christina Chang 張玲
11/15/2011	Your favorite Nobel Laureates	Chi-Wu Chiang 蔣輯武
11/22/2011	Research Resources (databases, tools, protocols, etc.)	Hsiao-Fang Sun 孫孝芳
11/29/2011	Methodology in Cell Biology	Li-Wha Wu 吳梨華
12/06/2011	Methodology in Bacteriology	Ching-Hao Teng 鄧景浩
12/13/2011	Methodology in Molecular Biology	Chi-Wu Chiang 蔣輯武
12/20/2011	Methodology in Virology	Shainn-Wei Wang 王憲威
12/27/2011	Methodology in Protein Chemistry and Proteomics	Nanshan Chang 張南山
01/03/2012	Methodology in Genetics and Epigenetics	Christina Chang 張玲
01/10/2012	Final report due	張玲