

## Introduction to Research - Fall 2012

**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
09/18/2012	Doing Research, Scientific Integrity & Keeping Lab Records	Christina Chang 張玲
09/25/2012	Research Project & Time Management	Larry Paris
10/02/2012	Theory & Hypothesis Testing	Larry Paris
10/09/2012	Scientific Reading (journal formats, data presentation & interpretation, etc.)	Christina Chang 張玲
10/16/2012	Communication Skills (interpersonal & scientific)	Chi-Wu Chiang 蔣輯武
10/23/2012	Scientific Writing (abstract & poster)	Shainn-Wei Wang 王憲威
10/30/2012	Biosafety and Lab Safety	Ching-Hao Teng 鄧景浩
11/06/2012	Animal Models for Human Disease	Christina Chang 張玲
11/13/2012	Technological development in DNA sequencing	Sunny Sun 孫孝芳
11/20/2012	Methodology in Molecular Biology	Chi-Wu Chiang 蔣輯武
11/27/2012	Methodology in Genetics & Epigenetics	Christina Chang 張玲
12/04/2012	Methodology in Cell Biology	Christina Chang 張玲
12/11/2012	Methodology in Bacteriology	Ching-Hao Teng 鄧景浩
12/18/2012	Methodology in Protein Chemistry and Proteomics	Nanshan Chang 張南山
12/25/2012	Methodology in Virology	Shainn-Wei Wang 王憲威
01/08/2013	Your favorite Nobel Laureates	Chi-Wu Chiang 蔣輯武
01/15/2013	<b>Final report due</b>	Christina Chang 張玲