

Introduction to Research - Fall 2010

Course Objective: This course introduces graduate students to ethical, biosafety, communication and methodological aspects of biomedical research. Students will (a) examine basic methodologies of experimental research; (b) follow conceptual and methodological development of selected fields of biomedical sciences, and (c) apply one or more methodologies to your own research.

Course Format: It consists of weekly meetings of 2 hours in duration 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%), team presentation of animal models (30%), mid-term report (20%), 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) & Chi-Wu Chiang 蔣輯武(ext. 3637)
Teaching Assistant: Chang-Lin Wu 吳長霖(ext.3621)

Date	Topic	Lecturers
09/14/2010	Doing research & scientific integrity	Christina Chang 張 玲
09/21/2010	Keeping lab records	Christina Chang 張 玲
09/28/2010	Scientific reading (journal formats, hypothesis formation, data presentation & interpretation, etc.)	Li-Wha Wu 吳梨華
10/05/2010	Communication skills (interpersonal & scientific)	Chi-Wu Chiang 蔣輯武
10/12/2010	Scientific writing (abstract, poster & thesis etc.)	Shainn-Wei Wang 王憲威
10/19/2010	Biosafety and lab safety	Ching-Hao Teng 鄧景浩
10/26/2010	Animal models for human disease	Christina Chang 張 玲
11/02/2010	Research resources (e.g., public databases, tools, protocols)	TBA
11/09/2010	Mid-term report due	張 玲
11/16/2010	Methodology in Cell Biology	Li-Wha Wu 吳梨華
11/23/2010	Methodology in Bacteriology	Ching-Hao Teng 鄧景浩
11/30/2010	Methodology in Genetics and Epigenetics	Yi-Ching Wang 王憶卿
12/07/2010	Methodology in Virology	Shainn-Wei Wang 王憲威
12/14/2010	Methodology in Protein Chemistry and Proteomics	Nanshan Chang 張南山
12/21/2010	Methodology in Molecular Biology	Chi-Wu Chiang 蔣輯武
12/28/2010	Project Management	Larry Paris
01/04/2011	Development of Taiwan biotech companies	TBA
01/11/2011	Final report due	張 玲