

轉譯醫學(轉化醫學)

Translational Medicine

一、課程說明(Course Description)

Translational medicine can be defined as "bench-to-bedside" research wherein a basic laboratory discovery becomes applicable to the diagnosis, treatment or prevention of a specific disease. We will discuss guidelines for designing and conducting a translational study and analyzing and reporting results and discusses key ethical and regulatory issues. We will also discuss selected successful examples and cover the basic sciences behind them. Biotech Industry and Physician scientist lecturers will be invited to offer their viewpoints and experiences in lab and clinics.

二、指定用書(Textbooks)

"Clinical and Translational Science: principles of human research"

David Robertson and Gordon H. Williams

Elsevier/Academic Press, 2009

eBook available at NTHU library <http://www.lib.nthu.edu.tw/>

三、參考期刊(References)

(1) Science Translational Medicine

<http://stm.sciencemag.org/>

(2) Journal of Translational Medicine

<http://www.translational-medicine.com/>

四、教學方式(Teaching Method)

Lectures; Project Presentation and Discussion

五、暫訂教學進度(Syllabus)

見次頁

六、成績考核(Evaluation)

1. Attendance and in-class performance (10%_

2. Exam 1 (45%)

3. Exam 2 and/pr Term project (45%)

七、可連結之網頁位址

TBA; E-Learning system

	Date	Instructor	Topic
1	02/20	莊永仁老師	Patient-oriented research; Training and Career in Translational Medicine
2	02/27	莊永仁老師	Technical approaches (1/3): Molecular Analysis
3	03/05	莊永仁老師	Technical approaches (2/3): Imaging analysis
4	03/12	莊永仁老師	Technical approaches (3/3): Nano and Information Technology
5	03/19	莊永仁老師	Infrastructure of Translational Medicine
6	03/26	莊永仁老師	Drug discovery and development
7	04/02	---	No Class - Spring break
8	04/09	黃嘉祥學長	Viewpoint from industry: 永信 http://www.yssp.com.tw/
9	04/16	---	Exam I
10	04/23	莊永仁老師	Practice and Regulation
11	04/30	莊永仁老師	Clinical trials and ethical issues
12	05/07	蘇佩慈學姊	Viewpoint from industry: 普生 http://www.gbc.com.tw/
13	05/14	劉俞旻醫師	Viewpoint from clinics: Atherosclerosis Hsinchu MacKay Memorial Hospital
14	05/21	莊永仁老師	Sample project: From Basic research to clinical applications
15	05/28	張幸治醫師	Viewpoint from in clinics: Cancer Hsinchu MacKay Memorial Hospital
16	06/04	莊永仁老師	Pharmacoeconomics
17	06/11	莊永仁老師	Future of translational research: Taiwan and beyond
18	06/18	莊永仁老師	Project Presentation (or Exam II)