

Research Tools of Basic Medical Sciences – Fall 2017

基礎醫學研究技術

Room: 601

Time: Monday, AM 10:10-12:00

9/18	Start a research project: Internet resources (dry lab work)	Ming-Derg Lai
9/25	Transgenic animal	Shang-Hsun Yang
10/2	Virus-based techniques	Shang-Hsun Yang
10/9	National Holiday	
10/16	Analyze RNA expression (Single gene level)	Chang-Shi Chen
10/23	Analyze RNA expression (Systematic analysis)	Chang-Shi Chen
10/30	Demonstration	Chang-Shi Chen
11/6	Analyze protein expression (western, IHC, proteomics)	Po-Hsien Huang
11/13	Analyze protein expression (Core facility in Hospital)	Po-Hsien Huang
11/20	Methods for optical imaging	Wen-Tai Chiu
11/27	Application of fluorescence protein	Wen-Tai Chiu
12/4	Demonstration	Wen-Tai Chiu
12/11	Cell separation & analysis (Flow sorting, magnetic)	Hung-Chi Cheng
12/18	Signal transduction (shRNA, inhibitor, gene pulser)	Hung-Chi Cheng
12/25	Demonstration	Hung-Chi Cheng
1/1	National Holiday	
1/8	Animal imaging (IVIS and supersonic in Animal Center)	Pei-Jung Lu
1/15	Term report	

Objective: The purpose of this course is to provide the knowledge of basic biomedical techniques in modern medical research and how to use the core facility in Medical College and Hospital. The virtual experiment or demonstration may be included in the class.

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Teachers:

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Chang-Shi Chen	陳昌熙
Po-Hsien Huang	黃柏憲
Hung-Chi Cheng	鄭宏祺
Wen-Tai Chiu	邱文泰
Shang-Hsun Yang	楊尚訓
Pei-Jung Lu	呂佩融

To the students enrolled in the class "Research Tools of Basic Medical Sciences"

The course grade will be evaluated by the "term report"

Please write a report on any two different biochemical tools

The report include:

- (1) The principle of research technique
- (2) The advantages of research technique
- (3) The disadvantages of research technique
- (4) The application of research techniques.

Page limit: 5 pages

Language: English

deadline: 12/31