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  Methods for optical imaging Wen-Tai Chiu
11/13 Application of fluorescence protein Wen-Tai Chiu
11/20 Demonstration Wen-Tai Chiu
11/27 Analyze protein expression (western, IHC, proteomics) Po-Hsien Huang
12/4  Analyze protein expression (Core facility in Hospital) Po-Hsien Huang
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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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