

Research Tools for Basic Medical Sciences 基礎醫學研究技術－114-1

Course goal:

1. Master fundamental biomedical research principles and methodologies.
2. Acquire proficiency in essential laboratory techniques for basic medical sciences.
3. Apply experimental knowledge to design and conduct research projects.

Location: Medical College Building Classroom-303D

Time: Mondays AM 10:10-12:00

1	9/8	Introduction	Pu-Ste Liu
2	9/15	Transgenic animal	Shang-Hsun Yang
3	9/22	Virus-based techniques	Shang-Hsun Yang
	9/29	教師節補假	
	10/6	中秋節	
4	10/13	Immunometabolism analysis	Pu-Ste Liu
5	10/20	Cell Metabolism analysis	Pu-Ste Liu
6	10/27	Measurement of glucose homeostasis in vivo	Hung-Tsung Wu
7	11/03	Nano-enhanced virotherapy or immunotherapy	S.-Ja Tseng
8	11/10	Mass spectrometry analysis and clinical applications	Wei-Ling Lin
9	11/17	Neural circuit-based techniques	Wei-Li Wu
10	11/24	Analyze the RNA expression (Single gene level)	Chang-Shi Chen
11	12/01	Analyze RNA expression (Systematic analysis) & Demonstration	Chang-Shi Chen
12	12/08	Magnetic resonance imaging techniques	Sheng-Min Huang
13	12/15	Targeted Protein Modification: Lessons from PROTACs and PhosTACs.	Po-Han Chen
14	12/22	Biomedical application for nanomaterial	Tsung-Lin Tsai
15	12/29	Animal imaging, digital pathology, and the NCKU AAALAC (postpone)	Ching-Hao Teng NCKU AAALAC
16	01/05	Final-term examination- Group 1 presentation	Pu-Ste Liu
17	01/12	Final-term examination - Group 2 presentation	Pu-Ste Liu

Coordinator:

Pu-Ste Liu

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Course instructors:

Shang-Hsun Yang

楊尚訓

Ching-Hao Teng

鄧景浩

Wei-Ling Lin	林韋伶
S.-Ja Tseng	曾士傑
Wei-Li Wu	吳偉立
Po-Han Chen	陳伯翰
Chang-Shi Chen	陳昌熙
Tsung-Lin Tsai	蔡宗霖
Hung-Tsung Wu	吳泓璵
Sheng-Min Huang	黃聖閔
Pu-Ste Liu	劉卜慈

Grading:

Class discussion and participation (40%)

Final presentation (60%)