

New Drug Research and Development

Time: Thursdays 10:20-12:10

Location: National Taiwan University, College of Medicine, BASIC MEDICAL BLDG.ROOM NO.1105

This course will provide the most updated information of new drug development in some research fields and human diseases, and to cultivate students who would like to devote themselves to academic institutes or pharmaceutical industry in the future. We provide brief but fundamental knowledge in the pathogenesis of human diseases, and identify novel therapeutic targets which are actively explored by pharmaceutical industry to develop potential therapeutic agents either in the pre-clinical stage or under clinical trials. The pharmacology, toxicology and unmet medical needs of these drugs would be discussed. We would also provide TFDA Regulations and Guidance for Investigational New Drug (IND) and New Drug Application (NDA).

Schedule

Week	Date	Topic	Instructor
1	2/23	A long journey to identify a potential first-in-class CNS drug	Dr. Lih-Chu Chiou
2	3/02	Translation medicine considerations for large molecules	Dr. M. Sherry Ku
3	3/09	Stem cells and cell drug development	Dr. Thai-Yen Ling
4	3/16	Targeting P2X7 purinoceptor in drug development research	Dr. Wan-Wan Lin
5	3/23	Therapeutic Implications of the DNA Damage Response	Dr. Ching-Shyi Wu
6	3/30	Human induced pluripotent stem cell for disease modeling and precision medicine	Dr. Wen-Pin Chen
7	4/06	Genetic and Genomic Approach of Drug Discovery	Dr. Kai-Chien Yang
8	4/13	Drug delivery and viral-based therapy to the central nervous system	Dr. Ming-Kai Pan
9	4/20	Induced Pluripotent Stem Cell as a New Tool for Cancer Therapy and Anti-cancer Drug Discovery	Dr. Tzu-Tang "Thomas" Wei
10	4/27	Regulation of New Drug Approval	Dr. Meir-Chyun Tzou
11	5/04	Snake Venom Research and New Drug Development	Dr. Tur-Fu Huang
12	5/11	Challenges after marketing in new drugs	Dr. Feng-Chiao Tsai
13	5/18	AI drug discovery: from theory to clinics	Dr. Yen-Chu Lin "Jimmy"