

97-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	新藥篩選技術	Serial No. / ID	0274 / BTI3050
Dept.	生物產業科技學系	School System / Class	大學日間部3年1班
Lecturer	張育騰	Full or Part-time	兼任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(三)5 / H544 (五)56 / H544	Language	Chinese

Introduction	
(1)	To study from the concept of new drugs, features, the finding way and the factors that affect the discovery of drugs.
(2)	To combine with new drugs in the chemical issues, such as leading compounds for the establishment and formation of drug candidates, drug screening methods, model and other issues, were focused on the discussion.
(3)	For the Systematic introduction of New Drug Research, the study of efficacy and pharmacodynamics of the basic technical requirements for model selection and evaluation of the role of the mutual relationship between drugs, drug pharmacokinetics in vivo process and the relationship with the drug development.
(4)	To match with high-throughput screening and make the appropriate application of herbal chip of elaboration.

Outline	
Chapter I)	Introduction
Section I)	The development of pharmacological
Section II)	The History and status of drug research
Chapter II)	The discovery of new drugs
Section I)	The concept of new drugs
Section II)	Characteristics of Drug Research
Section III)	The way drug discovery
Section IV)	The factors affect the drug discovery
Chapter III)	Chemical problems in new drug research
Section I)	The discovery of lead compounds
Section II)	of the development of drug candidates
Chapter IV)	Drug Screening and Drug Discovery
Section I)	The basic concepts of drug discovery, purpose and mission
Section II)	The main contents of drug screening
Section III)	Drug screening and drug research and relationship

Section IV) Drug screening methods and models

Section V) The status of drug screening

Chapter V) Drug pharmacodynamics

Section I) The basic concepts of pharmacodynamics

Section II) Drug pharmacodynamics

Section III) The basic technical requirements for efficacy studies

Section IV) Pharmacodynamic Evaluation and Statistics Section

Section V) Pharmacodynamic drug research ideas and progress

Chapter VI) The relationship between drug effects

Section I) Incidence of drug interactions

Section II) Overview of drug interaction studies

Section III) Classification and mechanism of drug interactions

Chapter VII) The body process drugs

Section I) Development of Drug Metabolism Section

Section II) Biofilm structure and transport mechanism

Section III) Drug absorption

Section IV) The distribution of drugs

Section V) Metabolism of drugs

Section VI) Excretion of drugs

Section VII) Drug metabolism in drug development research

Chapter VIII) The pharmacokinetics and drug research

Section I) Pharmacokinetic parameters and significance of important

Section II) Pharmacokinetics and pharmacodynamics

Section III) Pharmacokinetics and clinical use of drugs

Section IV) Drug metabolism and drug development

Chapter IX) General Pharmacology

Section I) General pharmacology research

Section II) General Pharmacology II relationship with other disciplines

Chapter X) Toxicology and Drug Research

Section I) Overview

Section II) Genetic toxicity tests

Section III) Cancer trials

Section IV) Reproductive toxicity

Section V) Systemic toxicity

Section VI) GLP and Drug Research

Chapter XI) of the intellectual Section I) Property issues in drug research

Section II) Property and its ownership

Section III) Overview Intellectual Section IV) Property Section

Section V) The patent system and its role in the third quarter

Chapter XII) points of drug administration regulation