Curriculum of Institute of BioPharmaceutical Sciences Master Program
National Sun Yat-sen University

Required courses

(6 credits)

- General theory of drug discovery
- Seminar (I) (II) (III) (IV)

Restricted elective courses (Choose 3 out of 7)

- General theory of drug discovery
- The Intellectual Property And Regulation In Biopharmaceuticals
- Scientific writing
- Tumor molecular biology
- Spectroscopic identification of small molecule drugs
- Development of macromolecular therapeutics
- Molecular virology and application

Elective Courses

Independent Studies

- Independent Studies In Cancer Autophagy (I) (II)
- Independent Studies In Biosensors (I) (II)
- Independent Studies In Cerebral Ischemia (I) (II)
- Independent Studies In Anticancer Drug Discovery (I) (II)
- Independent Studies In Bifunctional Molecule Drug Discovery (I) (II)
- Independent Study In Vaccine Development (I) (II)
- Independent Study (I) (II)

Biomedical Sciences and Application

- Cell Therapy And Immunotherapy
- Embryonic Development And Regenerative Medicine
- Stem cell biology
- Investigation Of Angiogenesis And Metastasis For Cancer Therapy
- Body Processes And Disease Progression
- The Animal Model And Technology In Biopharmaceutical Research
- Aesthetic Medicine And Medical Device
- Targeted Therapies For Malignant Tumors
- Innovative Approaches In Diagnosis Of Emerging Infectious Pathogens And Their Drug Resistance
- Medical Biotechnology For Diagnosis And Therapy
- Principle And Design Of Rna Vaccines
- Manufacturing Practice And Application Of Biotech Industry
- Bioinformatics And Applications
- Current And Future Prospects For The Innovative Biotechnology Industry
- CELL BIOLOGY
- Experimental Application Of Biomedical Technology And Virology

Drug Development

- Drug Metabolism And Pharmacokinetics
- Targeted Protein Degradation Based Drug Development(I) (II)
- Organic Synthesis For Small Molecule Drugs(I) (II)
- Clinical Molecular Pharmacology
- Current Status And Perspectives Of Anticancer Drugs
- Mrna-based Therapeutics For Emerging Viruses And Cancers
- Molecular Drug Design And Synthesis
- Pharmacognosy And Natural Medicine R&d
- Toxic Responses Of Organs
- Drug Development In Central Nervous System (Cns) Disorders
- Medicinal Chemistry(I) (II)