

Curriculum of Institute of BioPharmaceutical Sciences Doctoral Program

National Sun Yat-sen University

Required courses :

- Seminar (I) (II) (III) (IV)
- Advanced Research in the development of biopharmaceuticals

Elective courses

Drug development

- General Theory Of Drug Discovery
- Cell Biology
- Embryonic Development And Regenerative Medicine
- **Stem cell biology**
- **Natural Products**
- **Microbiology and immunology**
- Toxic Responses Of Organs
- Body Processes And Disease Progression
- Tumor Molecular Biology
- Medicinal Chemistry (I) (II)
- Independent Studies In Cancer Autophagy (I) (II)
- Independent Studies In Cerebral Ischemia (I) (II)
- Independent Studies In Anticancer Drug Discovery(I) (II)

Biomedical sciences and application

- The Intellectual Property And Regulation In Biopharmaceuticals
- Medical Biotechnology For Diagnosis And Therapy
- Clinical Molecular Pharmacology
- Innovative Approaches In Diagnosis Of Emerging Infectious Pathogens And Their Drug Resistance
- Current Status And Perspectives Of Anticancer Drugs
- Manufacturing Practice And Application Of Biotech Industry
- Medical Biotechnology For Diagnosis And Therapy
- Aesthetic Medicine And Medical Device
- Current And Future Prospects For The Innovative Biotechnology Industry
- **Medical ethics and clinical trials**
- **Transdermal drug delivery system**
- The Animal Model And Technology In Biopharmaceutical Research
- Independent Studies In Biosensors (I) (II)
- **Independent Study In Vaccine Development(I) (II)**

Advanced courses

- Targeted Therapies For Malignant Tumors
- Molecular Drug Design And Synthesis
- Development Of Macromolecular Therapeutics
- Drug Development In Central Nervous System (Cns) Disorders
- Cell Therapy And Immunotherapy
- Scientific Writing