

سرفصل های پایان نامه های بیوتکنولوژی دارویی

زمینه های تحقیقاتی این رشته به دو دسته زیر تقسیم می شود:

۱. بنیادی (Basic)

۲. صنعتی و تولیدی (Industrial Development and Production)

زیر مجموعه های هر یک از بخشهای فوق به شرح زیر می باشد:

- 1. Pharmaceutical Biotechnology Research related to Bio-therapeutics including Recombinant Proteins/ Antibodies/ Nucleic acids/ Peptides/ Nucleic Acid based Vaccines/ Cell based therapeutic**
 - Design and discovery
 - Expression systems (Prokaryotic and Eukaryotic)
 - Protein or cell line engineering
 - Microorganism engineering
 - Enzymes
- 2. Industrial Development and Production Process for bio-therapeutics**
 - Research and Development
 - Characterization and Bioanalytical Aspects
 - Biosimilars (all aspects of development and production)
 - Upstream and Downstream Development
 - Peptides / small molecules with application for industrial development of biopharmaceuticals
 - Pharmacokinetics and Pharmacodynamics of biopharmaceutical
 - Development of human disease and Pk/ PD cell based or animal models including all relative aspects (Genome editing tools, etc.)
 - Formulation
 - Process Optimization and Validation
 - Information management (depositing, retrieval, etc) in the Biopharmaceutical industry
- 3. Regenerative Medicine as drug-screening tools, and regenerative therapies.**
- 4. System biology and multi-omic approaches applicable to biopharmaceutical's production, validation, etc.**