

Multidisciplinary Academic Research & PhD Guidance in Biotechnology, Bioinformatics & 200+ Fields. Please choose your field(s) of interest from list below.

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Biotechnology

Life Sciences

- Cell Biology
- Molecular Biology
- Stem Cell Research
- Proteomics
- Genomics
- Transcriptomics
- Metabolomics
- Biochemistry
- Biomedical Sciences
- Microbial Biotechnology
- Bioengineering
- Biophysics
- Neurosciences
- Systems Biology
- Enzymology
- Computational Biology
- Drug Discovery
- Functional Genomics
- Structural Biology
- Epigenetics
- Pathway Analysis

Plant Biotechnology

- Plant Tissue Culture
- Genetically Modified Crops
- Plant Pathology
- Crop Genomics
- Biofertilizers
- Plant Genetic Engineering
- Agroecology
- Horticulture Biotechnology
- Plant Metabolomics
- Weed Management
- Herbal Medicine Research
- Plant-Microbe Interaction
- Plant-based Pharmaceuticals
- Photosynthesis Optimization
- Biofortification
- Abiotic Stress Resistance
- Phylogenetics of Crops
- Nanotechnology in Agriculture
- Climate-Resilient Crops
- Plant Breeding and Genetics
- Plant Epigenomics

Marine Biotechnology

- Algal Biofuels
- Marine Pharmacology
- Deep-Sea Microbiology
- Marine Bioprospecting
- Marine Biodiversity Conservation
- Aquatic Bioremediation
- Marine Enzymology
- Marine Nanotechnology
- Climate Change Impact on Marine Life
- Coral Reef Microbiome
- Marine Genomics
- Marine Biotechnology for Cosmetics
- Fishery Biotechnology
- Marine Nutraceuticals
- Seaweed Biotechnology
- Ocean Acidification Studies
- Bioremediation of Oil Spills
- Biofouling Prevention

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- Marine Natural Products
- Marine Bioadhesives
- Bioluminescent Marine Organisms

Microbiology

Medical Microbiology

- Pathogenic Bacteria Studies
- Microbial Resistance Mechanisms
- Virology
- Parasitology
- Mycology
- Antimicrobial Drug Discovery
- Host-Microbe Interaction
- Vaccine Development
- Gut Microbiome and Health
- Hospital-Acquired Infections
- Microbial Biofilms
- Antibiotic Resistance Genes
- CRISPR in Pathogen Control
- Immune Response to Microbes
- Nosocomial Infections
- Microbial Toxins
- Diagnostic Microbiology
- Microbiota-based Therapies
- Oral Microbiology
- Microbial Epidemiology
- Bacteriophage Therapy

Industrial Microbiology

- Fermentation Technology
- Bioprocess Optimization
- Microbial Biopolymers
- Probiotic Development
- Microbial Enzymes
- Wastewater Treatment
- Bioethanol Production
- Bioplastic Production
- Microbial Bioleaching
- Biopesticides
- Microbial Fuel Cells

- Secondary Metabolite Production
- Microbial Biosensors
- Microbial Textile Processing
- Metagenomics in Industry
- Microbial Hydrogen Production
- Cellulose Degradation
- Industrial Waste Biodegradation
- Microbial Nanoparticles
- Antifungal Drug Development
- Microbial Fermented Foods

Bioinformatics

Genomics

- Whole Genome Sequencing
- Comparative Genomics
- Human Genome Analysis
- Functional Genomics
- RNA-Seq Analysis
- Metagenomic Studies
- Genome Annotation
- Genome Editing Data Analysis
- Phylogenomic Studies
- Pangenomics
- Structural Variations in Genomes
- Epigenomic Studies
- Genome-Wide Association Studies
- Transposable Elements in Genomes
- Long-Read Sequencing Analysis
- Non-coding RNA Analysis
- Gene Regulatory Networks
- DNA Methylation Studies
- Host-Pathogen Genomics
- CRISPR Guide RNA Design
- Single-Cell Genomics

Pharmaceutical Sciences

Pharmaceutical Biotechnology

- Biopharmaceuticals
 - Monoclonal Antibody Therapy

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- Recombinant Protein Drugs
- DNA and RNA-based Therapeutics
- Biological Drug Delivery Systems
- o Protein Engineering in Pharma
- Vaccine Development
 - o mRNA Vaccine Technology
 - Viral Vector Vaccines
 - Live Attenuated Vaccines
 - Subunit and Conjugate Vaccines
 - o Plant-based Vaccine Production
- Cell and Gene Therapy
 - Stem Cell Therapeutics
 - o CRISPR-based Gene Editing
 - o Chimeric Antigen Receptor (CAR-T) Therapy
 - Gene Delivery Vectors
 - Epigenetic Drug Development

Pharmacology

- Clinical Pharmacology
 - Drug-Drug Interactions
 - o Pharmacokinetics and Pharmacodynamics
 - Bioavailability Studies
 - o Pharmacogenomics
 - o Precision Medicine
- Neuropharmacology
 - Psychopharmacology
 - Neurotransmitter Modulation
 - Neurodegenerative Disease Treatments
 - Opioid Pharmacology
 - o Pain Management Drugs
- Cardiovascular Pharmacology
 - Hypertension Drug Development
 - Antiarrhythmic Medications
 - Lipid-Lowering Drugs
 - Angiotensin Modulators
 - o Cardioprotective Agents

Pharmaceutical Chemistry

- Medicinal Chemistry
 - o Small Molecule Drug Design

- Structure-Activity Relationship (SAR)
- Drug Metabolism and Toxicity
- Lead Optimization in Drug Discovery
- Computational Drug Design
- Natural Product Chemistry
 - Plant-based Pharmaceuticals
 - Marine Natural Products
 - Microbial Metabolites
 - Alkaloid Drug Development
 - Terpenoid-based Drug Discovery
- Analytical Chemistry in Pharma
 - HPLC & GC in Drug Analysis
 - Spectroscopic Drug Characterization
 - o Mass Spectrometry in Pharma
 - o Chromatographic Techniques in Pharma
 - Stability Testing of Pharmaceuticals

Pharmaceutics

- Drug Formulation & Development
 - Controlled Drug Release Systems
 - Nanoformulations
 - Oral Drug Delivery Technologies
 - o Transdermal Drug Delivery
 - Biodegradable Polymer Drug Carriers
- Pharmaceutical Nanotechnology
 - Lipid-based Drug Delivery
 - Nanoparticles in Drug Transport
 - Dendrimers in Drug Targeting
 - Microneedle Drug Delivery Systems
 - Gold Nanoparticles in Cancer Therapy
- Advanced Drug Delivery Systems
 - 3D-Printed Drug Formulations
 - Smart Drug Delivery
 - Hydrogel-Based Drug Carriers
 - Artificial Intelligence in Drug Formulation
 - Peptide-Based Drug Delivery

Pharmaceutical Microbiology

- Antibiotic Resistance
 - Beta-Lactam Resistance Mechanisms

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- Multidrug-Resistant Bacteria
- Alternative Antimicrobial Therapies
- Bacteriophage Therapy
- o Antibiotic Stewardship Programs
- Microbial Quality Control in Pharma
 - o GMP Guidelines for Sterility Testing
 - Endotoxin Testing
 - Microbial Contaminants in Pharmaceuticals
 - Mycoplasma Testing
 - Environmental Monitoring in Pharma
- Biopharmaceutical Production
 - Microbial Strain Engineering
 - Recombinant Protein Expression
 - Fermentation Optimization
 - o Downstream Processing of Biologics
 - o Cell Culture-Based Drug Production

Regulatory Affairs

- Pharmaceutical Regulations
 - FDA Guidelines for Drug Approval
 - EU Regulatory Frameworks
 - GMP and GLP Compliance
 - Clinical Trial Regulations
 - o Post-Market Surveillance
- Pharmacovigilance
 - o Adverse Drug Reaction Monitoring
 - o Risk-Benefit Assessment
 - Pharmacovigilance Data Analysis
 - Drug Safety Reporting
 - Real-World Evidence in Drug Safety
- Quality Assurance & Control
 - Good Manufacturing Practices (GMP)
 - Quality Risk Management
 - o Process Validation in Pharma
 - ICH Guidelines for Drug Stability
 - o ISO Standards in Pharma