

Molecular Pharmacology Internship Topics

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50
Active Categories

10
Focused Areas

Internships
Internships

Molecular Pharmacology Internship Categories

AI Drug Receptor Interaction Research https://internships.nthrys.com/molecular-pharmacology/ai-drug-receptor-interaction-research	Machine Learning Signal Transduction Drug Research https://internships.nthrys.com/molecular-pharmacology/machine-learning-signal-transduction-drug
AI Drug-Induced Gene Expression Research https://internships.nthrys.com/molecular-pharmacology/ai-drug-induced-gene-expression-research	AI Allosteric Pharmacology Research https://internships.nthrys.com/molecular-pharmacology/ai-allosteric-pharmacology-research
AI GPCR Pharmacology Research https://internships.nthrys.com/molecular-pharmacology/ai-gpcr-pharmacology-research	AI Ion Channel Pharmacology Research https://internships.nthrys.com/molecular-pharmacology/ai-ion-channel-pharmacology-research
AI Pharmacogenomics Molecular Research https://internships.nthrys.com/molecular-pharmacology/ai-pharmacogenomics-molecular-research	AI Drug Toxicology Molecular Research https://internships.nthrys.com/molecular-pharmacology/ai-drug-toxicology-molecular-research
AI Kinase Drug Target Research https://internships.nthrys.com/molecular-pharmacology/ai-kinase-drug-target-research	AI Network Pharmacology Research https://internships.nthrys.com/molecular-pharmacology/ai-network-pharmacology-research
Protein-Ligand Binding Kinetics Research https://internships.nthrys.com/molecular-pharmacology/protein-ligand-binding-kinetics-research	Drug Metabolism Enzyme Characterization https://internships.nthrys.com/molecular-pharmacology/drug-metabolism-enzyme-characterization
Structural Biology Drug Design https://internships.nthrys.com/molecular-pharmacology/structural-biology-drug-design	Computational Molecular Docking Studies https://internships.nthrys.com/molecular-pharmacology/computational-molecular-docking-studies
Cell Signaling Pathway Pharmacology https://internships.nthrys.com/molecular-pharmacology/cell-signaling-pathway-pharmacology	Receptor Subtype Selectivity Research https://internships.nthrys.com/molecular-pharmacology/receptor-subtype-selectivity-research
Drug-Drug Interaction Mechanisms https://internships.nthrys.com/molecular-pharmacology/drug-drug-interaction-mechanisms	Membrane Protein Pharmacology https://internships.nthrys.com/molecular-pharmacology/membrane-protein-pharmacology
Natural Product Bioactive Screening https://internships.nthrys.com/molecular-pharmacology/natural-product-bioactive-screening	Target Validation High-Throughput Research https://internships.nthrys.com/molecular-pharmacology/target-validation-high-throughput-research
Epigenetic Drug Mechanism Research https://internships.nthrys.com/molecular-pharmacology/epigenetic-drug-mechanism-research	Protease and Proteasome Inhibitor Research https://internships.nthrys.com/molecular-pharmacology/protease-and-proteasome-inhibitor-research
Apoptosis Pathway Drug Studies https://internships.nthrys.com/molecular-pharmacology/apoptosis-pathway-drug-studies	Angiogenesis Inhibitor Pharmacology https://internships.nthrys.com/molecular-pharmacology/angiogenesis-inhibitor-pharmacology
Immunopharmacology Checkpoint Research https://internships.nthrys.com/molecular-pharmacology/immunopharmacology-checkpoint-research	RNA Interference Drug Development https://internships.nthrys.com/molecular-pharmacology/ma-interference-drug-development
Oligonucleotide Therapeutics Research https://internships.nthrys.com/molecular-pharmacology/oligonucleotide-therapeutics-research	Nanoparticle Drug Delivery Systems https://internships.nthrys.com/molecular-pharmacology/nanoparticle-drug-delivery-systems
Prodrug Activation Mechanism Studies https://internships.nthrys.com/molecular-pharmacology/prodrug-activation-mechanism-studies	Biopharmaceutical Antibody Research https://internships.nthrys.com/molecular-pharmacology/biopharmaceutical-antibody-research
Pharmacokinetic Parameter Determination https://internships.nthrys.com/molecular-pharmacology/pharmacokinetic-parameter-determination	Transporter-Mediated Drug Research https://internships.nthrys.com/molecular-pharmacology/transporter-mediated-drug-research

Neurotransmitter Receptor Pharmacology https://internships.nthrys.com/molecular-pharmacology/neurotransmitter-receptor-pharmacology	Cardiovascular Drug Mechanism Studies https://internships.nthrys.com/molecular-pharmacology/cardiovascular-drug-mechanism-studies
Inflammatory Response Modulation Research https://internships.nthrys.com/molecular-pharmacology/inflammatory-response-modulation-research	Bacterial Resistance Mechanism Research https://internships.nthrys.com/molecular-pharmacology/bacterial-resistance-mechanism-research
Viral Protease Inhibitor Research https://internships.nthrys.com/molecular-pharmacology/viral-protease-inhibitor-research	Metabolic Enzyme Inhibition Studies https://internships.nthrys.com/molecular-pharmacology/metabolic-enzyme-inhibition-studies
Cannabinoid Receptor Pharmacology https://internships.nthrys.com/molecular-pharmacology/cannabinoid-receptor-pharmacology	Orphan Nuclear Receptor Research https://internships.nthrys.com/molecular-pharmacology/orphan-nuclear-receptor-research
Oxidative Stress Drug Research https://internships.nthrys.com/molecular-pharmacology/oxidative-stress-drug-research	Mitochondrial Function Pharmacology https://internships.nthrys.com/molecular-pharmacology/mitochondrial-function-pharmacology
Autophagy Pathway Modulation Research https://internships.nthrys.com/molecular-pharmacology/autophagy-pathway-modulation-research	Disease-Associated Protein Aggregation https://internships.nthrys.com/molecular-pharmacology/disease-associated-protein-aggregation
Estrogen Receptor Ligand Research https://internships.nthrys.com/molecular-pharmacology/estrogen-receptor-ligand-research	Androgen Receptor Modulation Studies https://internships.nthrys.com/molecular-pharmacology/androgen-receptor-modulation-studies
Thyroid Hormone Receptor Research https://internships.nthrys.com/molecular-pharmacology/thyroid-hormone-receptor-research	Photopharmacology Light-Activated Research https://internships.nthrys.com/molecular-pharmacology/photopharmacology-light-activated-research
Rational Drug Scaffold Optimization https://internships.nthrys.com/molecular-pharmacology/rational-drug-scaffold-optimization	Lead Compound Potency Enhancement https://internships.nthrys.com/molecular-pharmacology/lead-compound-potency-enhancement

Molecular Pharmacology Internship Topics and Focused Areas

Machine Learning Signal Transduction Drug Research

- Protein-Ligand Binding Prediction Using Deep Learning
- Signal Transduction Pathway Classification and Network Analysis
- Drug Response Prediction in Cell-Based Assays
- Molecular Feature Engineering for ADMET Properties
- Kinase Inhibitor Selectivity Profiling and Mechanism Discovery

Natural Product Bioactive Screening

- Phytochemical Isolation and Characterization
- High-Throughput Bioactivity Screening
- Receptor Binding and Molecular Docking Studies
- Cytotoxicity and Cellular Mechanism Evaluation
- Natural Product Structure-Activity Relationship (SAR) Analysis

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