

Molecular Cancer Research Internship Topics

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50
Active Categories

15
Focused Areas

Internships
Internships

Molecular Cancer Research Internship Categories

AI Oncogene & Tumor Suppressor Research https://internships.nthrys.com/molecular-cancer-research/ai-oncogene-tumor-suppressor-research	Machine Learning Cancer Driver Mutation Research https://internships.nthrys.com/molecular-cancer-research/machine-learning-cancer-driver-mutation
AI Cancer Epigenomics Molecular Research https://internships.nthrys.com/molecular-cancer-research/ai-cancer-epigenomics-molecular-research	AI Tumor Heterogeneity Research https://internships.nthrys.com/molecular-cancer-research/ai-tumor-heterogeneity-research
AI Metastasis Molecular Research https://internships.nthrys.com/molecular-cancer-research/ai-metastasis-molecular-research	AI Cancer Immunology Molecular Research https://internships.nthrys.com/molecular-cancer-research/ai-cancer-immunology-molecular-research
AI DNA Damage Cancer Research https://internships.nthrys.com/molecular-cancer-research/ai-dna-damage-cancer-research	AI Liquid Biopsy Cancer Research https://internships.nthrys.com/molecular-cancer-research/ai-liquid-biopsy-cancer-research
AI Cancer Stem Cell Research https://internships.nthrys.com/molecular-cancer-research/ai-cancer-stem-cell-research	AI Cancer Drug Resistance Research https://internships.nthrys.com/molecular-cancer-research/ai-cancer-drug-resistance-research
CRISPR Gene Editing Cancer Cell Models https://internships.nthrys.com/molecular-cancer-research/crispr-gene-editing-cancer-cell-models	Protein-Protein Interaction Cancer Signaling https://internships.nthrys.com/molecular-cancer-research/protein-protein-interaction-cancer-signaling
Cancer Metabolomics Biomarker Discovery https://internships.nthrys.com/molecular-cancer-research/cancer-metabolomics-biomarker-discovery	Tumor Microenvironment Cellular Interactions https://internships.nthrys.com/molecular-cancer-research/tumor-microenvironment-cellular-interactions
Angiogenesis Molecular Mechanism Research https://internships.nthrys.com/molecular-cancer-research/angiogenesis-molecular-mechanism-research	Chromatin Remodeling Cancer Epigenetics https://internships.nthrys.com/molecular-cancer-research/chromatin-remodeling-cancer-epigenetics
Non-Coding RNA Cancer Regulation https://internships.nthrys.com/molecular-cancer-research/non-coding-rna-cancer-regulation	Clonal Evolution Tumor Sequencing Analysis https://internships.nthrys.com/molecular-cancer-research/clonal-evolution-tumor-sequencing-analysis
Organoid Development Cancer Biology Models https://internships.nthrys.com/molecular-cancer-research/organoid-development-cancer-biology-models	Immunotherapy Response Molecular Profiling https://internships.nthrys.com/molecular-cancer-research/immunotherapy-response-molecular-profiling
Synthetic Lethal Interaction Cancer Screening https://internships.nthrys.com/molecular-cancer-research/synthetic-lethal-interaction-cancer-screening	Cancer Cell Cycle Checkpoint Control https://internships.nthrys.com/molecular-cancer-research/cancer-cell-cycle-checkpoint-control
Nucleotide Excision Repair Cancer Mutations https://internships.nthrys.com/molecular-cancer-research/nucleotide-excision-repair-cancer-mutations	Tumor Suppressor Pathway Restoration https://internships.nthrys.com/molecular-cancer-research/tumor-suppressor-pathway-restoration
Cancer Glycosylation Protein Modification https://internships.nthrys.com/molecular-cancer-research/cancer-glycosylation-protein-modification	Photodynamic Therapy Mechanism Studies https://internships.nthrys.com/molecular-cancer-research/photodynamic-therapy-mechanism-studies
Circulating Tumor Cell Isolation Methods https://internships.nthrys.com/molecular-cancer-research/circulating-tumor-cell-isolation-methods	Cancer Extracellular Matrix Remodeling https://internships.nthrys.com/molecular-cancer-research/cancer-extracellular-matrix-remodeling
Targeted Protein Degradation Cancer Therapy https://internships.nthrys.com/molecular-cancer-research/targeted-protein-degradation-cancer-therapy	Cancer Splicing Regulatory Network Analysis https://internships.nthrys.com/molecular-cancer-research/cancer-splicing-regulatory-network-analysis
Tumor Suppressors p53 Pathway Function https://internships.nthrys.com/molecular-cancer-research/tumor-suppressors-p53-pathway-function	Cancer Cell Dormancy Reactivation Mechanisms https://internships.nthrys.com/molecular-cancer-research/cancer-cell-dormancy-reactivation-mechanisms
Hypoxia Response Cancer Adaptation https://internships.nthrys.com/molecular-cancer-research/hypoxia-response-cancer-adaptation	Cancer Personalized Medicine Genomic Profiling https://internships.nthrys.com/molecular-cancer-research/cancer-personalized-medicine-genomic-profiling

Oncogenic Fusion Protein Characterization https://internships.nthrys.com/molecular-cancer-research/oncogenic-fusion-protein-characterization	Cancer Immunosurveillance Escape Mechanisms https://internships.nthrys.com/molecular-cancer-research/cancer-immunosurveillance-escape-mechanisms
Nanoparticle Drug Delivery Cancer Treatment https://internships.nthrys.com/molecular-cancer-research/nanoparticle-drug-delivery-cancer-treatment	Cancer Telomere Maintenance Mechanisms https://internships.nthrys.com/molecular-cancer-research/cancer-telomere-maintenance-mechanisms
ROS Oxidative Stress Cancer Dependency https://internships.nthrys.com/molecular-cancer-research/ros-oxidative-stress-cancer-dependency	Cancer Autophagy Pathway Regulation https://internships.nthrys.com/molecular-cancer-research/cancer-autophagy-pathway-regulation
Wnt Signaling Pathway Cancer Development https://internships.nthrys.com/molecular-cancer-research/wnt-signaling-pathway-cancer-development	Notch Signaling Cancer Stem Cell Maintenance https://internships.nthrys.com/molecular-cancer-research/notch-signaling-cancer-stem-cell-maintenance
Hedgehog Signaling Pathway Cancer https://internships.nthrys.com/molecular-cancer-research/hedgehog-signaling-pathway-cancer	Cancer Extracellular Vesicle Signaling https://internships.nthrys.com/molecular-cancer-research/cancer-extracellular-vesicle-signaling
Lipid Metabolism Cancer Proliferation Driver https://internships.nthrys.com/molecular-cancer-research/lipid-metabolism-cancer-proliferation-driver	Cancer Single-Cell Transcriptomic Analysis https://internships.nthrys.com/molecular-cancer-research/cancer-single-cell-transcriptomic-analysis
Spatial Transcriptomics Tumor Architecture https://internships.nthrys.com/molecular-cancer-research/spatial-transcriptomics-tumor-architecture	Cancer Immunopeptidomics Vaccine Design https://internships.nthrys.com/molecular-cancer-research/cancer-immunopeptidomics-vaccine-design
CAR-T Cell Engineering Targeting Validation https://internships.nthrys.com/molecular-cancer-research/car-t-cell-engineering-targeting-validation	Cancer Copy Number Alteration Mapping https://internships.nthrys.com/molecular-cancer-research/cancer-copy-number-alteration-mapping

Molecular Cancer Research Internship Topics and Focused Areas

Chromatin Remodeling Cancer Epigenetics

- Chromatin Remodeling Complex Characterization
- Histone Modification Profiling in Cancer Genomes
- Cancer-Associated Epigenetic Mutations and Chromatin Dysfunction
- Polycomb Repressive Complex Function in Cancer Stem Cells
- Epigenetic Plasticity and Treatment Resistance in Cancer

Organoid Development Cancer Biology Models

- 3D Tumor Organoid Culture and Characterization
- Drug Response Testing in Cancer Organoids
- Organoid-Derived Extracellular Matrix and Microenvironment Engineering
- Single-Cell Analysis and Transcriptomics in Cancer Organoids
- Patient-Derived Xenograft (PDX) Organoid Development and Modeling

Nanoparticle Drug Delivery Cancer Treatment

- Synthesis and Characterization of Polymeric Nanoparticles
- Drug Loading and Release Kinetics Studies
- In Vitro Cellular Uptake and Cytotoxicity Assays
- Surface Modification and Targeting Ligand Conjugation
- Biocompatibility Assessment and Pharmacokinetic Studies

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