

Molecular Oncology Internship Topics

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50
Active Categories

5
Focused Areas

Internships
Internships

Molecular Oncology Internship Categories

AI Oncogene Signaling Research https://internships.nthrys.com/molecular-oncology/ai-oncogene-signaling-research	Machine Learning Tumor Suppressor Research https://internships.nthrys.com/molecular-oncology/machine-learning-tumor-suppressor-research
AI Cancer Genome Instability Research https://internships.nthrys.com/molecular-oncology/ai-cancer-genome-instability-research	AI Epigenetic Cancer Research https://internships.nthrys.com/molecular-oncology/ai-epigenetic-cancer-research
AI Cancer Metabolism Research https://internships.nthrys.com/molecular-oncology/ai-cancer-metabolism-research	AI Tumor Immune Evasion Research https://internships.nthrys.com/molecular-oncology/ai-tumor-immune-evasion-research
AI Cancer Non-Coding RNA Research https://internships.nthrys.com/molecular-oncology/ai-cancer-non-coding-ma-research	AI Angiogenesis Cancer Research https://internships.nthrys.com/molecular-oncology/ai-angiogenesis-cancer-research
AI Cell Cycle Oncology Research https://internships.nthrys.com/molecular-oncology/ai-cell-cycle-oncology-research	AI Apoptosis Oncology Research https://internships.nthrys.com/molecular-oncology/ai-apoptosis-oncology-research
Protein-Protein Interaction Cancer Networks https://internships.nthrys.com/molecular-oncology/protein-protein-interaction-cancer-networks	Cancer Driver Mutation Validation Studies https://internships.nthrys.com/molecular-oncology/cancer-driver-mutation-validation-studies
Tumor Heterogeneity Single-Cell Analysis https://internships.nthrys.com/molecular-oncology/tumor-heterogeneity-single-cell-analysis	Kinase Inhibitor Sensitivity Prediction Research https://internships.nthrys.com/molecular-oncology/kinase-inhibitor-sensitivity-prediction-research
MicroRNA Cancer Biomarker Discovery https://internships.nthrys.com/molecular-oncology/micrna-cancer-biomarker-discovery	Chromatin Remodeling Cancer Mechanisms https://internships.nthrys.com/molecular-oncology/chromatin-remodeling-cancer-mechanisms
Synthetic Lethality Cancer Drug Discovery https://internships.nthrys.com/molecular-oncology/synthetic-lethality-cancer-drug-discovery	Extracellular Vesicle Cancer Signaling https://internships.nthrys.com/molecular-oncology/extracellular-vesicle-cancer-signaling
Liquid Biopsy Circulating Tumor DNA https://internships.nthrys.com/molecular-oncology/liquid-biopsy-circulating-tumor-dna	Immunotherapy Resistance Molecular Mechanisms https://internships.nthrys.com/molecular-oncology/immunotherapy-resistance-molecular-mechanisms
RNA Splicing Cancer Dysregulation https://internships.nthrys.com/molecular-oncology/rna-splicing-cancer-dysregulation	Oncogenic Viral Integration Mechanism https://internships.nthrys.com/molecular-oncology/oncogenic-viral-integration-mechanism
Cancer Stem Cell Self-Renewal Pathways https://internships.nthrys.com/molecular-oncology/cancer-stem-cell-self-renewal-pathways	Tumor Suppressor Pathway Restoration https://internships.nthrys.com/molecular-oncology/tumor-suppressor-pathway-restoration
DNA Damage Response Cancer Mutations https://internships.nthrys.com/molecular-oncology/dna-damage-response-cancer-mutations	Metabolite-Driven Oncogenic Signaling https://internships.nthrys.com/molecular-oncology/metabolite-driven-oncogenic-signaling
Cancer Cell Migration Invasion Mechanisms https://internships.nthrys.com/molecular-oncology/cancer-cell-migration-invasion-mechanisms	Tumor Microenvironment Fibroblast Crosstalk https://internships.nthrys.com/molecular-oncology/tumor-microenvironment-fibroblast-crosstalk
High-Throughput Drug Screening Oncology https://internships.nthrys.com/molecular-oncology/high-throughput-drug-screening-oncology	Gene Expression Signature Cancer Classification https://internships.nthrys.com/molecular-oncology/gene-expression-signature-cancer-classification
Transcription Factor Dependency Cancer https://internships.nthrys.com/molecular-oncology/transcription-factor-dependency-cancer	Post-Translational Modification Cancer Signaling https://internships.nthrys.com/molecular-oncology/post-translational-modification-cancer-signaling
Hypoxia-Inducible Factor Cancer Biology https://internships.nthrys.com/molecular-oncology/hypoxia-inducible-factor-cancer-biology	Wnt Signaling Pathway Cancer Stem Cells https://internships.nthrys.com/molecular-oncology/wnt-signaling-pathway-cancer-stem-cells

Notch Signaling Cancer Cell Fate https://internships.nthrys.com/molecular-oncology/notch-signaling-cancer-cell-fate	Hedgehog Pathway Cancer Development https://internships.nthrys.com/molecular-oncology/hedgehog-pathway-cancer-development
p53 Mutation Cancer Phenotypes https://internships.nthrys.com/molecular-oncology/p53-mutation-cancer-phenotypes	RAS Pathway Dependency Cancer Subsets https://internships.nthrys.com/molecular-oncology/ras-pathway-dependency-cancer-subsets
PI3K AKT mTOR Cancer Signaling https://internships.nthrys.com/molecular-oncology/pi3k-akt-mtor-cancer-signaling	MYC Oncogene Dependency Cancer https://internships.nthrys.com/molecular-oncology/myc-oncogene-dependency-cancer
BRCA Mutation Cancer Predisposition https://internships.nthrys.com/molecular-oncology/brca-mutation-cancer-predisposition	Mismatch Repair Deficiency Cancer https://internships.nthrys.com/molecular-oncology/mismatch-repair-deficiency-cancer
PTEN Loss Cancer Progression https://internships.nthrys.com/molecular-oncology/pten-loss-cancer-progression	NF-kappa-B Inflammation Cancer Axis https://internships.nthrys.com/molecular-oncology/nf-kappa-b-inflammation-cancer-axis
JAK STAT Cancer Cytokine Signaling https://internships.nthrys.com/molecular-oncology/jak-stat-cancer-cytokine-signaling	MAPK Pathway Oncogenic Addiction https://internships.nthrys.com/molecular-oncology/mapk-pathway-oncogenic-addiction
Fusion Protein Cancer Transformation https://internships.nthrys.com/molecular-oncology/fusion-protein-cancer-transformation	Copy Number Alteration Cancer Drivers https://internships.nthrys.com/molecular-oncology/copy-number-alteration-cancer-drivers
Three-Dimensional Tumor Model Development https://internships.nthrys.com/molecular-oncology/three-dimensional-tumor-model-development	Patient-Derived Xenograft Cancer Research https://internships.nthrys.com/molecular-oncology/patient-derived-xenograft-cancer-research

Molecular Oncology Internship Topics and Focused Areas

AI Epigenetic Cancer Research

- Machine Learning Models for DNA Methylation Pattern Recognition
- Deep Learning Analysis of Histone Modification Landscapes
- Chromatin Accessibility Prediction Using AI
- Natural Language Processing for Epigenetic Literature Mining
- Predictive Modeling of Drug Response Using Epigenetic Signatures

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