

Cancer Systems Biology Internship Topics

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50
Active Categories

10
Focused Areas

Internships
Internships

Cancer Systems Biology Internship Categories

AI Cancer Network Medicine Research https://internships.nthrys.com/cancer-systems-biology/ai-cancer-network-medicine-research	Machine Learning Cancer Signaling Dynamics https://internships.nthrys.com/cancer-systems-biology/machine-learning-cancer-signaling-dynamics
AI Multi-Omics Cancer Systems Research https://internships.nthrys.com/cancer-systems-biology/ai-multi-omics-cancer-systems-research	AI Clonal Evolution & Tumor Heterogeneity https://internships.nthrys.com/cancer-systems-biology/ai-clonal-evolution-tumor-heterogeneity
AI Cancer Drug Synergy Prediction Research https://internships.nthrys.com/cancer-systems-biology/ai-cancer-drug-synergy-prediction-research	AI Synthetic Lethality Cancer Research https://internships.nthrys.com/cancer-systems-biology/ai-synthetic-lethality-cancer-research
AI Tumor Immune Ecosystem Research https://internships.nthrys.com/cancer-systems-biology/ai-tumor-immune-ecosystem-research	AI Cancer Metabolism Systems Research https://internships.nthrys.com/cancer-systems-biology/ai-cancer-metabolism-systems-research
AI Epigenome Cancer Systems Research https://internships.nthrys.com/cancer-systems-biology/ai-epigenome-cancer-systems-research	AI Metastasis Systems Biology Research https://internships.nthrys.com/cancer-systems-biology/ai-metastasis-systems-biology-research
Cancer Proteomics Pathway Integration Systems https://internships.nthrys.com/cancer-systems-biology/cancer-proteomics-pathway-integration-systems	Tumor Microenvironment Spatial Transcriptomics Research https://internships.nthrys.com/cancer-systems-biology/tumor-microenvironment-spatial-transcriptomics-research
Cancer Genomics Mutation Burden Analysis https://internships.nthrys.com/cancer-systems-biology/cancer-genomics-mutation-burden-analysis	Single-Cell RNA Sequencing Cancer Heterogeneity https://internships.nthrys.com/cancer-systems-biology/single-cell-rna-sequencing-cancer-heterogeneity
Cancer Cell Cycle Systems Modeling https://internships.nthrys.com/cancer-systems-biology/cancer-cell-cycle-systems-modeling	Drug Resistance Mechanisms Cancer Systems https://internships.nthrys.com/cancer-systems-biology/drug-resistance-mechanisms-cancer-systems
Cancer Angiogenesis Network Systems Research https://internships.nthrys.com/cancer-systems-biology/cancer-angiogenesis-network-systems-research	Tumor Suppressor Gene Network Analysis https://internships.nthrys.com/cancer-systems-biology/tumor-suppressor-gene-network-analysis
Cancer Inflammation Systems Biomarker Discovery https://internships.nthrys.com/cancer-systems-biology/cancer-inflammation-systems-biomarker-discovery	Oncogene Addiction Cancer Systems Mapping https://internships.nthrys.com/cancer-systems-biology/oncogene-addiction-cancer-systems-mapping
Cancer Autophagy Pathway Systems Characterization https://internships.nthrys.com/cancer-systems-biology/cancer-autophagy-pathway-systems-characterization	DNA Repair Systems Cancer Vulnerability Research https://internships.nthrys.com/cancer-systems-biology/dna-repair-systems-cancer-vulnerability-research
Cancer Stemness Networks Single-Cell Analysis https://internships.nthrys.com/cancer-systems-biology/cancer-stemness-networks-single-cell-analysis	Tumor Vasculature Endothelial Systems Modeling https://internships.nthrys.com/cancer-systems-biology/tumor-vasculature-endothelial-systems-modeling
Cancer Glycolysis Metabolic Flux Analysis https://internships.nthrys.com/cancer-systems-biology/cancer-glycolysis-metabolic-flux-analysis	Immunotherapy Response Prediction Systems Research https://internships.nthrys.com/cancer-systems-biology/immunotherapy-response-prediction-systems-research
Cancer Fibroblast Activation Systems Analysis https://internships.nthrys.com/cancer-systems-biology/cancer-fibroblast-activation-systems-analysis	Wnt Signaling Cancer Pathway Dynamics https://internships.nthrys.com/cancer-systems-biology/wnt-signaling-cancer-pathway-dynamics
Cancer Hypoxia Adaptation Systems Modeling https://internships.nthrys.com/cancer-systems-biology/cancer-hypoxia-adaptation-systems-modeling	NOTCH Signaling Cancer Systems Integration https://internships.nthrys.com/cancer-systems-biology/notch-signaling-cancer-systems-integration
Cancer Phenotypic Switching Cell State Research https://internships.nthrys.com/cancer-systems-biology/cancer-phenotypic-switching-cell-state-research	RNA Splicing Cancer Systems Dysfunction https://internships.nthrys.com/cancer-systems-biology/rna-splicing-cancer-systems-dysfunction
Cancer Mitochondrial Function Systems Analysis https://internships.nthrys.com/cancer-systems-biology/cancer-mitochondrial-function-systems-analysis	MAPK Pathway Cancer Dependency Mapping https://internships.nthrys.com/cancer-systems-biology/mapk-pathway-cancer-dependency-mapping
Cancer Telomere Maintenance Systems Modeling https://internships.nthrys.com/cancer-systems-biology/cancer-telomere-maintenance-systems-modeling	PI3K-AKT Cancer Pathway Context Analysis https://internships.nthrys.com/cancer-systems-biology/pi3k-akt-cancer-pathway-context-analysis

Cancer NF-kappa-B Signaling Systems Research https://internships.nthrys.com/cancer-systems-biology/cancer-nf-kappa-b-signaling-systems-research	Chromatin Remodeling Cancer Epigenetics Research https://internships.nthrys.com/cancer-systems-biology/chromatin-remodeling-cancer-epigenetics-research
Cancer Histone Modification Networks Analysis https://internships.nthrys.com/cancer-systems-biology/cancer-histone-modification-networks-analysis	MicroRNA Cancer Regulatory Network Research https://internships.nthrys.com/cancer-systems-biology/microna-cancer-regulatory-network-research
Long Non-Coding RNA Cancer Systems Function https://internships.nthrys.com/cancer-systems-biology/long-non-coding-rna-cancer-systems-function	Cancer Ferroptosis Pathway Systems Research https://internships.nthrys.com/cancer-systems-biology/cancer-ferroptosis-pathway-systems-research
Apoptosis Evasion Cancer Systems Modeling https://internships.nthrys.com/cancer-systems-biology/apoptosis-evasion-cancer-systems-modeling	Cancer Senescence Escape Systems Analysis https://internships.nthrys.com/cancer-systems-biology/cancer-senescence-escape-systems-analysis
Immune Checkpoint Cancer Pathway Research https://internships.nthrys.com/cancer-systems-biology/immune-checkpoint-cancer-pathway-research	Cancer Extracellular Matrix Systems Modeling https://internships.nthrys.com/cancer-systems-biology/cancer-extracellular-matrix-systems-modeling
Growth Factor Receptor Cancer Networks Analysis https://internships.nthrys.com/cancer-systems-biology/growth-factor-receptor-cancer-networks-analysis	Cancer Organoid Systems Biology Research https://internships.nthrys.com/cancer-systems-biology/cancer-organoid-systems-biology-research
Circulating Tumor Cell Systems Characterization https://internships.nthrys.com/cancer-systems-biology/circulating-tumor-cell-systems-characterization	Cancer Copy Number Alteration Systems Impact https://internships.nthrys.com/cancer-systems-biology/cancer-copy-number-alteration-systems-impact

Cancer Systems Biology Internship Topics and Focused Areas

Cancer Proteomics Pathway Integration Systems

- Phosphoproteomics Data Integration and Network Analysis
- Protein-Protein Interaction Networks in Oncogenic Pathways
- Proteogenomics Integration for Cancer Mutation Validation
- Temporal Proteomics Profiling of Treatment Response Pathways
- Spatial Proteomics and Subcellular Localization in Tumor Microenvironments

Cancer Genomics Mutation Burden Analysis

- Tumor Mutational Burden (TMB) Quantification and Stratification
- Somatic Mutation Calling and Quality Control
- Mutational Signature and Etiology Analysis
- Clonal Evolution and Subclonal Architecture in Tumors
- Genomic Biomarker Discovery for Immunotherapy Response Prediction

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