

Molecular Neurobiology Internship Topics

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50
Active Categories

15
Focused Areas

Internships
Internships

Molecular Neurobiology Internship Categories

AI Synaptogenesis Molecular Research https://internships.nthrys.com/molecular-neurobiology/ai-synaptogenesis-molecular-research	Machine Learning Neurotrophic Factor Research https://internships.nthrys.com/molecular-neurobiology/machine-learning-neurotrophic-factor-research
AI Neural Circuit Molecular Research https://internships.nthrys.com/molecular-neurobiology/ai-neural-circuit-molecular-research	AI Neurodegenerative Disease Molecular Research https://internships.nthrys.com/molecular-neurobiology/ai-neurodegenerative-disease-molecular
AI Ion Channel Neurobiology Research https://internships.nthrys.com/molecular-neurobiology/ai-ion-channel-neurobiology-research	AI Glia Molecular Biology Research https://internships.nthrys.com/molecular-neurobiology/ai-glia-molecular-biology-research
AI Neuropeptide Research https://internships.nthrys.com/molecular-neurobiology/ai-neuropeptide-research	AI Neuronal Signaling Research https://internships.nthrys.com/molecular-neurobiology/ai-neuronal-signaling-research
AI Epigenetics Neurobiology Research https://internships.nthrys.com/molecular-neurobiology/ai-epigenetics-neurobiology-research	AI Brain Aging Molecular Research https://internships.nthrys.com/molecular-neurobiology/ai-brain-aging-molecular-research
Receptor Trafficking Molecular Mechanisms https://internships.nthrys.com/molecular-neurobiology/receptor-trafficking-molecular-mechanisms	Synaptic Protein Interaction Networks https://internships.nthrys.com/molecular-neurobiology/synaptic-protein-interaction-networks
Axonal Transport Dysfunction Research https://internships.nthrys.com/molecular-neurobiology/axonal-transport-dysfunction-research	Mitochondrial Dysfunction Neuronal Research https://internships.nthrys.com/molecular-neurobiology/mitochondrial-dysfunction-neuronal-research
Protein Aggregation Neurotoxicity Studies https://internships.nthrys.com/molecular-neurobiology/protein-aggregation-neurotoxicity-studies	Calcium Signaling Dynamics Research https://internships.nthrys.com/molecular-neurobiology/calcium-signaling-dynamics-research
Post-Translational Modification Analysis https://internships.nthrys.com/molecular-neurobiology/post-translational-modification-analysis	RNA Binding Protein Neurobiology https://internships.nthrys.com/molecular-neurobiology/rna-binding-protein-neurobiology
MicroRNA Neural Gene Regulation https://internships.nthrys.com/molecular-neurobiology/microma-neural-gene-regulation	Actin Cytoskeleton Neuronal Dynamics https://internships.nthrys.com/molecular-neurobiology/actin-cytoskeleton-neuronal-dynamics
Astrocyte-Neuron Molecular Crosstalk https://internships.nthrys.com/molecular-neurobiology/astrocyte-neuron-molecular-crosstalk	Myelin Formation Molecular Biology https://internships.nthrys.com/molecular-neurobiology/myelin-formation-molecular-biology
Immune Neuroinflammation Molecular Research https://internships.nthrys.com/molecular-neurobiology/immune-neuroinflammation-molecular-research	Dendritic Spine Morphogenesis Research https://internships.nthrys.com/molecular-neurobiology/dendritic-spine-morphogenesis-research
Growth Cone Guidance Molecules https://internships.nthrys.com/molecular-neurobiology/growth-cone-guidance-molecules	GABA Signaling Development Research https://internships.nthrys.com/molecular-neurobiology/gaba-signaling-development-research
Glutamate Receptor Subunit Composition https://internships.nthrys.com/molecular-neurobiology/glutamate-receptor-subunit-composition	Neurotransmitter Synthesis Regulation https://internships.nthrys.com/molecular-neurobiology/neurotransmitter-synthesis-regulation
Vesicle Release Machinery Mechanics https://internships.nthrys.com/molecular-neurobiology/vesicle-release-machinery-mechanics	Protein Synthesis Translation Control https://internships.nthrys.com/molecular-neurobiology/protein-synthesis-translation-control
Circadian Clock Neurobiology Research https://internships.nthrys.com/molecular-neurobiology/circadian-clock-neurobiology-research	Long-Term Potentiation Molecular Basis https://internships.nthrys.com/molecular-neurobiology/long-term-potentiation-molecular-basis

Long-Term Depression Molecular Pathways https://internships.nthrys.com/molecular-neurobiology/long-term-depression-molecular-pathways	Addiction Neurobiology Molecular Mechanisms https://internships.nthrys.com/molecular-neurobiology/addiction-neurobiology-molecular-mechanisms
Learning Memory Molecular Consolidation https://internships.nthrys.com/molecular-neurobiology/learning-memory-molecular-consolidation	Sleep Neurobiology Molecular Regulation https://internships.nthrys.com/molecular-neurobiology/sleep-neurobiology-molecular-regulation
Stress Response Neuronal Signaling https://internships.nthrys.com/molecular-neurobiology/stress-response-neuronal-signaling	Neuronal Autophagy Degradation Research https://internships.nthrys.com/molecular-neurobiology/neuronal-autophagy-degradation-research
Proteasome Function Neuronal Proteostasis https://internships.nthrys.com/molecular-neurobiology/proteasome-function-neuronal-proteostasis	Extracellular Matrix Synapse Stabilization https://internships.nthrys.com/molecular-neurobiology/extracellular-matrix-synapse-stabilization
Secreted Neuronal Protein Signaling https://internships.nthrys.com/molecular-neurobiology/secreted-neuronal-protein-signaling	Transporter Protein Function Research https://internships.nthrys.com/molecular-neurobiology/transporter-protein-function-research
G-Protein Coupled Receptor Signaling https://internships.nthrys.com/molecular-neurobiology/g-protein-coupled-receptor-signaling	Metabotropic Glutamate Receptor Research https://internships.nthrys.com/molecular-neurobiology/metabotropic-glutamate-receptor-research
Purinergic Neurotransmission Research https://internships.nthrys.com/molecular-neurobiology/purinergic-neurotransmission-research	Endocannabinoid Signaling Neurobiology https://internships.nthrys.com/molecular-neurobiology/endocannabinoid-signaling-neurobiology
Neurosteroid Synthesis Neural Function https://internships.nthrys.com/molecular-neurobiology/neurosteroid-synthesis-neural-function	DNA Damage Response Neurons https://internships.nthrys.com/molecular-neurobiology/dna-damage-response-neurons
Metabolic Neuronal Signaling Research https://internships.nthrys.com/molecular-neurobiology/metabolic-neuronal-signaling-research	Synaptic Vesicle Docking Complex Assembly https://internships.nthrys.com/molecular-neurobiology/synaptic-vesicle-docking-complex-assembly

Molecular Neurobiology Internship Topics and Focused Areas

AI Ion Channel Neurobiology Research

- AI-Driven Ion Channel Structure Prediction
- Electrophysiology Data Analysis and Pattern Recognition
- Deep Learning Models for Ion Channel Drug Screening
- Neuronal Network Simulation with AI-Optimized Ion Channels
- Natural Language Processing for Ion Channel Literature Mining

Protein Aggregation Neurotoxicity Studies

- Alpha-Synuclein Aggregation Pathways
- Amyloid-Beta Toxicity and Neuroinflammation
- Tau Protein Phosphorylation and Neurodegeneration
- Proteostasis Mechanisms and Protein Quality Control
- Propagation of Prion-like Protein Seeds in Neural Networks

Immune Neuroinflammation Molecular Research

- Microglial Activation and Neuroinflammatory Signaling
- Cytokine and Chemokine Production in Neuroinflammation
- Blood-Brain Barrier Integrity and Immune Cell Infiltration
- Neuronal-Immune Cell Crosstalk and Synaptic Dysfunction
- Resolution of Neuroinflammation and Alternative Microglial Activation

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