

Molecular Biology Internship with Accommodation at Chennai

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51 Active Categories	155 Focused Areas	Chennai Accommodation Location
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How to View Accommodation Details and Booking Options

1. Open the Internships page or the corresponding Topics page.
2. Select the relevant focused area.
3. Select the available duration, mode and internship type.
4. Choose **Offline** mode to access accommodation booking options.
5. Continue to the fee/payment page and use the **Branches Select Option**.
6. After selecting the branch, use **Book NTHRYS Accommodation** to view accommodation fee, facility photographs, amenities and the available booking details.

Molecular Biology Internship Categories

AI Gene Expression Regulation Research https://internships.nthrys.com/molecular-biology/ai-gene-expression-regulation-research	Machine Learning DNA Replication Research https://internships.nthrys.com/molecular-biology/machine-learning-dna-replication-research
AI RNA Biology Molecular Research https://internships.nthrys.com/molecular-biology/ai-rna-biology-molecular-research	AI Chromatin & Epigenetics Research https://internships.nthrys.com/molecular-biology/ai-chromatin-epigenetics-research
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Gene Therapy Vector Development Research https://internships.nthrys.com/molecular-biology/gene-therapy-vector-development-research	Metabolic Pathway Engineering Analysis https://internships.nthrys.com/molecular-biology/metabolic-pathway-engineering-analysis

RNA Interference Therapeutic Development https://internships.nthrys.com/molecular-biology/rna-interference-therapeutic-development	Molecular Marker Discovery Cancer Research https://internships.nthrys.com/molecular-biology/molecular-marker-discovery-cancer-research
Enzyme Kinetics Optimization Laboratory Study https://internships.nthrys.com/molecular-biology/enzyme-kinetics-optimization-laboratory-study	Synthetic Biology Genetic Circuit Design https://internships.nthrys.com/molecular-biology/synthetic-biology-genetic-circuit-design
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Molecular Biology Internship Topics and Focused Areas

AI Gene Expression Regulation Research

- Machine Learning Models for Transcription Factor Binding Prediction
- CRISPR-Based Epigenetic Regulation and Gene Silencing Analysis
- Single-Cell RNA-seq Data Analysis for Cell-Type-Specific Gene Expression
- Non-Coding RNA Function in Post-Transcriptional Gene Regulation
- Synthetic Gene Circuits and Computational Modeling of Gene Networks

AI RNA Biology Molecular Research

- RNA Structure Prediction Using Machine Learning
- CRISPR RNA Design and Optimization
- RNA-Protein Interaction Prediction
- Single-Cell RNA Sequencing Data Analysis
- Non-coding RNA Functional Annotation

AI Protein Synthesis Research

- Deep Learning Models for Protein Structure Prediction
- Machine Learning-Driven Codon Optimization
- Natural Language Processing for Protein Sequence Analysis
- Computational Design of Novel Protein Functions
- AI-Assisted Protein Synthesis Pathway Optimization

AI DNA Damage & Repair Research

- Machine Learning Models for DNA Lesion Detection
- Predictive Modeling of DNA Repair Pathways
- Deep Learning Analysis of Gene Expression in Repair Responses
- Natural Language Processing for DNA Damage Literature Mining
- Bioinformatics Pipeline Development for Mutation Pattern Recognition

AI Cell Signaling Molecular Research

- Machine Learning Models for Protein-Protein Interaction Prediction
- Automated Image Analysis for Cell Signaling Microscopy
- Natural Language Processing for Biomedical Literature Mining
- AI-Driven Drug Target Discovery in Signal Transduction
- Systems Biology Modeling of Signal Transduction Networks

AI Protein-DNA Interaction Research

- Machine Learning Model Development for Protein-DNA Binding Prediction
- Structural Bioinformatics and Molecular Docking Studies
- Sequence Analysis and Motif Discovery in Transcription Factor Binding
- Deep Learning for ChIP-seq Data Analysis and Peak Prediction
- Comparative Genomics of DNA-Binding Proteins Across Species

CRISPR Gene Editing Mechanism Research

- CRISPR-Cas9 Off-Target Effects Analysis
- PAM Sequence Engineering and Specificity

- Base and Prime Editing Optimization
- CRISPR Delivery System Development
- Multiplexed CRISPR Array Design and Validation

Gene Therapy Vector Development Research

- Adeno-Associated Virus (AAV) Capsid Engineering
- Lentiviral Vector Optimization and Safety Assessment
- Non-Viral Vector Development and Transfection Efficiency
- In Vitro and Ex Vivo Gene Therapy Model Systems
- Vector Characterization and Quality Control Analytics

RNA Interference Therapeutic Development

- siRNA Design and Optimization
- Nanoparticle-Based siRNA Delivery Systems
- Gene Silencing Mechanism and Pathway Analysis
- Disease Model Development for RNAi Therapeutics
- Clinical Translation and Regulatory Assessment of RNAi Drugs

Molecular Marker Discovery Cancer Research

- Genomic Mutation Analysis in Tumor Samples
- Protein Biomarker Identification and Validation
- CircRNA and Long Non-coding RNA in Cancer Progression
- Epigenetic Markers: DNA Methylation and Histone Modifications
- Liquid Biopsy Marker Discovery from Circulating Tumor DNA and Exosomes

Enzyme Kinetics Optimization Laboratory Study

- Michaelis-Menten Kinetics Parameter Determination
- Enzyme Inhibition Mechanism Characterization
- Protein Expression and Purification Optimization
- Temperature and pH Effect Analysis on Enzyme Activity
- Multi-Substrate Enzyme Kinetics and Mechanism Studies

Synthetic Biology Genetic Circuit Design

- CRISPR-Based Gene Regulation Circuits
- Metabolic Engineering and Biosynthetic Pathways
- Synthetic Oscillators and Temporal Logic Gates
- Cell-Cell Communication and Quorum Sensing Circuits
- Protein Design and Enzyme Engineering for Circuit Applications

Mitochondrial DNA Mutation Analysis

- mtDNA Sequencing and Variant Detection
- Heteroplasmy Assessment and Quantification
- mtDNA Mutation Pathogenesis and Functional Analysis
- Population Genetics and mtDNA Polymorphism Databases
- Clinical Correlation and Disease Phenotyping

Protein Expression System Optimization

- Bacterial Expression System Optimization
- Mammalian Cell Culture-Based Protein Production
- Post-Translational Modification Engineering
- Recombinant Protein Purification and Characterization
- Heterologous Expression in Non-Conventional Hosts

Cell Cycle Regulation Checkpoint Research

- G1/S Checkpoint Control Mechanisms
- DNA Damage Response and G2/M Checkpoint
- Spindle Assembly Checkpoint Signaling
- Checkpoint Protein Interactions and Ubiquitin-Proteasome Degradation
- Checkpoint Dysfunction in Cancer Cell Biology

Plant Molecular Biology Improvement Study

- CRISPR-Cas9 Gene Editing in Crop Plants
- Stress Response Gene Expression Analysis
- Plant Metabolic Pathway Engineering
- Marker-Assisted Selection and Genomic Breeding
- Plant-Microbe Interaction and Symbiosis Studies

Epigenetics and Gene Regulation Research

- DNA Methylation Pattern Analysis
- Histone Modification Mapping
- CRISPR-Based Epigenetic Editing
- Long Non-Coding RNA Function in Gene Regulation
- Chromatin Accessibility and 3D Genome Organization

Virus Molecular Structure Characterization

- Viral Protein Crystallography and Structure Determination
- Cryo-Electron Microscopy (Cryo-EM) Analysis of Viral Particles

- Viral Genome Sequencing and Structural Prediction
- Viral Surface Antigen Epitope Mapping and Characterization
- Molecular Dynamics Simulations of Viral Protein-Ligand Interactions

Stem Cell Differentiation Pathway Investigation

- Pluripotency Marker Expression Analysis
- Epigenetic Modifications in Lineage Commitment
- Growth Factor Signaling Pathway Mapping
- Transcriptomic Profiling of Differentiation Stages
- Single-Cell Heterogeneity and Cell Fate Plasticity

DNA Methylation Pattern Epigenetic Study

- DNA Methylation Pattern Analysis in Cancer Cell Lines
- DNMT Enzyme Function and Inhibitor Screening
- Age-Related DNA Methylation Clock Development
- Environmental Factor-Induced Epigenetic Modifications
- Transgenerational Epigenetic Inheritance and DNA Methylation

Membrane Protein Structure Function Analysis

- G Protein-Coupled Receptor (GPCR) Ligand Binding Studies
- Ion Channel Electrophysiology and Patch-Clamp Analysis
- Transmembrane Protein Topology and Secondary Structure Prediction
- Protein-Lipid Interactions and Membrane Dynamics
- Structural Analysis of Transport Proteins and Antiporters

Horizontal Gene Transfer Microbial Study

- Bacterial Conjugation Pathway Analysis
- Metagenomic Sequencing of Environmental Microbial Communities
- CRISPR-Cas System Evolution and Transfer Dynamics
- Transposable Element Identification and Mapping
- Antibiotic Resistance Gene Dissemination Networks

Protein Post-Translational Modification Study

- Phosphorylation Mapping and Kinase Substrate Identification
- Ubiquitination and Protein Degradation Pathways
- Glycosylation Analysis and Protein Quality Control
- Acetylation and Histone Modification in Gene Regulation
- SUMOylation and Protein-Protein Interaction Networks

Antibiotic Resistance Mechanism Investigation

- Beta-Lactamase Enzyme Characterization and Inhibitor Screening
- Horizontal Gene Transfer Pathway Analysis
- Efflux Pump Function and Expression Regulation
- Whole Genome Sequencing and Comparative Genomics of Resistant Strains
- Phenotypic and Genotypic Resistance Pattern Profiling

Immunoglobulin Gene Diversity Research

- V(D)J Recombination Mechanism Analysis
- Somatic Hypermutation and Affinity Maturation
- Class Switch Recombination (CSR) Regulation
- Immunoglobulin Repertoire Sequencing and Analysis
- Allelic Exclusion and Isotypic Exclusion Mechanisms

Organelle Biogenesis Molecular Mechanism Study

- Mitochondrial Biogenesis and Quality Control Mechanisms
- Endoplasmic Reticulum Formation and Membrane Protein Trafficking
- Lysosomal Biogenesis and Autophagosome Maturation Pathways
- Peroxisomal Matrix Protein Import and Organellar Assembly
- Golgi Apparatus Stacking and Trans-Golgi Network Organization

Extracellular Matrix Protein Interaction Study

- Collagen-Integrin Binding Dynamics
- Proteoglycan Aggregation and Stability Analysis
- Laminin Isoform Characterization and Cell Recognition
- Matrix Metalloproteinase-ECM Substrate Specificity
- Fibronectin Conformational Changes and Mechanotransduction

Transcriptomics RNA-Seq Data Analysis

- RNA-Seq Read Alignment and Quality Control
- Differential Gene Expression Analysis
- Gene Annotation and Functional Enrichment Analysis
- Single-Cell RNA-Seq Data Processing and Cell Clustering
- RNA-Seq Visualization and Data Integration

Apoptosis Programmed Cell Death Pathways

- Caspase Activation and Signaling Cascades
- Mitochondrial Outer Membrane Permeabilization (MOMP)

- Death Receptor-Mediated Extrinsic Pathways
- p53-Dependent Apoptosis and Stress Response
- Apoptosis Evasion Mechanisms in Disease Models

Genomic Polymorphism Population Genetics Study

- SNP Genotyping and Allele Frequency Analysis
- Population Stratification and Ancestry Inference
- Linkage Disequilibrium Mapping and Haplotype Analysis
- Genome-Wide Association Study (GWAS) Data Analysis
- Evolutionary Population Genetics and Selection Signatures

Molecular Docking Drug Candidate Screening

- Virtual Screening of Small Molecule Libraries Against Target Proteins
- Structure-Based Drug Design and Ligand Optimization
- Protein-Ligand Interaction Analysis and Molecular Modeling
- High-Throughput Docking Pipeline Development and Validation
- Polypharmacology Prediction and Off-Target Analysis

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