

Molecular Genetics Internship with Accommodation at Kolkata

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50 Active Categories	20 Focused Areas	Kolkata 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 Genetics Internship Categories

AI Gene Regulation & Transcription Research https://internships.nthrys.com/molecular-genetics/ai-gene-regulation-transcription-research	Machine Learning Genetic Variant Effect Research https://internships.nthrys.com/molecular-genetics/machine-learning-genetic-variant-effect
AI Epigenetic Modification Research https://internships.nthrys.com/molecular-genetics/ai-epigenetic-modification-research	AI CRISPR Genetics Application Research https://internships.nthrys.com/molecular-genetics/ai-crispr-genetics-application-research
AI Imprinting & Non-Mendelian Research https://internships.nthrys.com/molecular-genetics/ai-imprinting-non-mendelian-research	AI Transposon Biology Research https://internships.nthrys.com/molecular-genetics/ai-transposon-biology-research
AI Alternative Splicing Research https://internships.nthrys.com/molecular-genetics/ai-alternative-splicing-res	AI RNA Interference Research https://internships.nthrys.com/molecular-genetics/ai-rna-interference-research
AI Non-Coding Genome Function Research https://internships.nthrys.com/molecular-genetics/ai-non-coding-genome-function-research	AI Chromosome Organization Research https://internships.nthrys.com/molecular-genetics/ai-chromosome-organization-research
DNA Sequencing Technology Development https://internships.nthrys.com/molecular-genetics/dna-sequencing-technology-development	Genome Assembly Computational Methods https://internships.nthrys.com/molecular-genetics/genome-assembly-computational-methods
SNP Detection and Validation Studies https://internships.nthrys.com/molecular-genetics/snp-detection-and-validation-studies	Copy Number Variation Analysis Research https://internships.nthrys.com/molecular-genetics/copy-number-variation-analysis-research

Mutation Screening in Genetic Diseases https://internships.nthrys.com/molecular-genetics/mutation-screening-in-genetic-diseases	Linkage Analysis and Gene Mapping https://internships.nthrys.com/molecular-genetics/linkage-analysis-and-gene-mapping
Recombination Frequency and Crossing Over https://internships.nthrys.com/molecular-genetics/recombination-frequency-and-crossing-over	Quantitative Trait Loci Mapping https://internships.nthrys.com/molecular-genetics/quantitative-trait-loci-mapping
Promoter Activity and Regulation Studies https://internships.nthrys.com/molecular-genetics/promoter-activity-and-regulation-studies	Enhancer Element Functional Analysis https://internships.nthrys.com/molecular-genetics/enhancer-element-functional-analysis
DNA Methylation Pattern Investigation https://internships.nthrys.com/molecular-genetics/dna-methylation-pattern-investigation	Histone Modification Functional Studies https://internships.nthrys.com/molecular-genetics/histone-modification-functional-studies
Chromatin Immunoprecipitation Experiments https://internships.nthrys.com/molecular-genetics/chromatin-immunoprecipitation-experiments	mRNA Stability and Decay Mechanisms https://internships.nthrys.com/molecular-genetics/mrna-stability-and-decay-mechanisms
Protein Expression Level Quantification https://internships.nthrys.com/molecular-genetics/protein-expression-level-quantification	Gene Knockout Model Development https://internships.nthrys.com/molecular-genetics/gene-knockout-model-development
Conditional Gene Expression Systems https://internships.nthrys.com/molecular-genetics/conditional-gene-expression-systems	RNA Structure and Function Analysis https://internships.nthrys.com/molecular-genetics/rna-structure-and-function-analysis
MicroRNA Target Prediction Studies https://internships.nthrys.com/molecular-genetics/microma-target-prediction-studies	Long Non-Coding RNA Characterization https://internships.nthrys.com/molecular-genetics/long-non-coding-rna-characterization
Homologous Recombination Repair Pathways https://internships.nthrys.com/molecular-genetics/homologous-recombination-repair-pathways	Point Mutation Induction and Analysis https://internships.nthrys.com/molecular-genetics/point-mutation-induction-and-analysis
Chromosomal Abnormality Characterization https://internships.nthrys.com/molecular-genetics/chromosomal-abnormality-characterization	Genetic Drift Simulation in Populations https://internships.nthrys.com/molecular-genetics/genetic-drift-simulation-in-populations
Horizontal Gene Transfer Mechanisms https://internships.nthrys.com/molecular-genetics/horizontal-gene-transfer-mechanisms	Genetic Marker Development Studies https://internships.nthrys.com/molecular-genetics/genetic-marker-development-studies
Polymerase Chain Reaction Optimization https://internships.nthrys.com/molecular-genetics/polymerase-chain-reaction-optimization	DNA Fingerprinting and Genotyping https://internships.nthrys.com/molecular-genetics/dna-fingerprinting-and-genotyping
Genetic Screening in Model Organisms https://internships.nthrys.com/molecular-genetics/genetic-screening-in-model-organisms	RNA-Seq Expression Profiling https://internships.nthrys.com/molecular-genetics/rna-seq-expression-profiling
Comparative Genomics and Evolution https://internships.nthrys.com/molecular-genetics/comparative-genomics-and-evolution	Synteny and Gene Order Conservation https://internships.nthrys.com/molecular-genetics/synteny-and-gene-order-conservation
Codon Usage and Translation Optimization https://internships.nthrys.com/molecular-genetics/codon-usage-and-translation-optimization	Genetic Code Variation Studies https://internships.nthrys.com/molecular-genetics/genetic-code-variation-studies
Plasmid Engineering and Cloning https://internships.nthrys.com/molecular-genetics/plasmid-engineering-and-cloning	Bacterial Genomic Island Characterization https://internships.nthrys.com/molecular-genetics/bacterial-genomic-island-characterization
Viral Genome Integration Studies https://internships.nthrys.com/molecular-genetics/viral-genome-integration-studies	Mitochondrial DNA Mutation Analysis https://internships.nthrys.com/molecular-genetics/mitochondrial-dna-mutation-analysis
Chloroplast Genome Organization https://internships.nthrys.com/molecular-genetics/chloroplast-genome-organization	Population Allele Frequency Dynamics https://internships.nthrys.com/molecular-genetics/population-allele-frequency-dynamics

Molecular Genetics Internship Topics and Focused Areas

AI Gene Regulation & Transcription Research

- Deep Learning Models for Transcription Factor Binding Prediction
- CRISPR-Based Gene Regulation Mapping
- Single-Cell RNA-seq Analysis of Transcriptional Heterogeneity
- Epigenetic Modifications and Chromatin Accessibility Studies
- Natural Language Processing for Mining Regulatory Literature

DNA Sequencing Technology Development

- Next-Generation Sequencing (NGS) Data Analysis Pipeline Development
- Long-Read Sequencing Technology Optimization
- Targeted Gene Sequencing and Panel Design
- Single-Cell Sequencing Protocol Development
- Portable and Field-Based Sequencing Technology Assessment

Mutation Screening in Genetic Diseases

- SNP and Indel Detection in Candidate Genes
- Sanger Sequencing and Mutation Validation
- Copy Number Variation (CNV) Analysis in Disease Pathogenesis
- High-Throughput Mutation Screening Using NGS
- In Silico Pathogenicity Prediction and Variant Classification

DNA Fingerprinting and Genotyping

- STR (Short Tandem Repeat) Analysis and Population Genetics
- SNP Genotyping and Genome-Wide Association Studies (GWAS)
- DNA Barcoding and Species Identification
- Forensic DNA Profiling and Case Analysis
- Mitochondrial DNA Sequencing and Maternal Lineage Tracking

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