



## Dna Profiling Workshops

# Dna Profiling Workshops

NTHRYS BIOTECH LABS provides a diverse array of workshops in the realm of DNA Profiling. Explore our comprehensive offerings below

[Dna Profiling Workshops Application Process](#)

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## Dna Profiling Gateway: Pave Your Path with Our Workshops!

1. [Workshop in Introduction to DNA ProfilingPDF](#)
2. [Workshop in Advanced Techniques in DNA ProfilingPDF](#)
3. [Workshop in DNA Profiling in Medical and Health SciencesPDF](#)
4. [Workshop in Innovations in DNA Profiling TechnologiesPDF](#)
5. [Workshop in Ethical and Legal Perspectives in DNA ProfilingPDF](#)

### 1. Workshop in Introduction to DNA Profiling

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

**8:45 AM - 10:15 AM: Session 1: Basics of DNA Structure and Function**

Overview of DNA structure and its role in genetics.

Hands-on session on extracting DNA from samples.

Introduction to the principles of DNA replication and transcription.

**10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

**10:30 AM - 12:00 PM: Session 2: DNA Profiling Techniques**

Interactive session on different DNA profiling methods.

Workshop on polymerase chain reaction (PCR) and gel electrophoresis.

Practical use of restriction fragment length polymorphism (RFLP) analysis.

**12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

**1:00 PM - 2:30 PM: Session 3: Forensic DNA Analysis**

Exploring the application of DNA profiling in forensic science.

Hands-on training on crime scene sample collection and processing.

Case studies on solving crimes using DNA evidence.

**2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

**2:45 PM - 4:15 PM: Session 4: Ethical and Legal Aspects of DNA Profiling**

Discussion on the ethical considerations in DNA profiling.

Workshop on understanding legal frameworks and regulations.  
Case studies on landmark cases involving DNA evidence.

**4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

**4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.  
Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

Certificate Issue

**5:30 PM: Workshop Concludes**

## 2. Workshop in Advanced Techniques in DNA Profiling

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.  
Brief overview of today's focus.

### **8:45 AM - 10:15 AM: Session 1: Next-Generation Sequencing (NGS)**

Introduction to next-generation sequencing technologies.  
Hands-on session on preparing samples for NGS.  
Practical use of NGS data analysis tools.

### **10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

### **10:30 AM - 12:00 PM: Session 2: Short Tandem Repeat (STR) Analysis**

Interactive session on STR analysis for human identification.  
Workshop on using capillary electrophoresis for STR profiling.  
Case studies on paternity testing and kinship analysis.

### **12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Mitochondrial DNA (mtDNA) Profiling**

Exploring the use of mtDNA in ancestry and population studies.  
Hands-on training on mtDNA extraction and sequencing.  
Case studies on tracing maternal lineage and migration patterns.

### **2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Bioinformatics in DNA Profiling**

Workshop on the role of bioinformatics in analyzing DNA data.  
Practical use of software tools for DNA sequence alignment and comparison.  
Case studies on integrating bioinformatics in forensic investigations.

### **4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

### **4:30 PM - 5:30 PM: Closing Session: Implementing Changes and**

## **Technology Adoption**

Group discussions on implementing new techniques learned today.  
Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

**Certificate Issue**

**5:30 PM: Workshop Concludes**

## **3. Workshop in DNA Profiling in Medical and Health Sciences**

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.  
Brief overview of today's focus.

**8:45 AM - 10:15 AM: Session 1: DNA Profiling in Disease Diagnosis**

Overview of DNA profiling applications in diagnosing genetic disorders.  
Hands-on session on identifying genetic mutations and polymorphisms.  
Case studies on the role of DNA profiling in personalized medicine.

**10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

**10:30 AM - 12:00 PM: Session 2: Pharmacogenomics**

Exploring the relationship between genetics and drug response.  
Workshop on analyzing genetic data for personalized drug therapy.  
Case studies on improving treatment outcomes using pharmacogenomics.

**12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

**1:00 PM - 2:30 PM: Session 3: DNA Profiling in Cancer Research**

Hands-on session on profiling DNA mutations in cancer cells.  
Exploring the use of DNA profiling for cancer diagnosis and treatment.  
Case studies on advancements in cancer genomics.

**2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

**2:45 PM - 4:15 PM: Session 4: Genetic Counseling and DNA Profiling**

Workshop on the role of genetic counseling in DNA profiling.  
Practical techniques for interpreting genetic test results.  
Case studies on ethical considerations in genetic counseling.

**4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

**4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.  
Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

Certificate Issue

**5:30 PM: Workshop Concludes**

## 4. Workshop in Innovations in DNA Profiling Technologies

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

### **8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

### **8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

### **8:45 AM - 10:15 AM: Session 1: CRISPR and Genome Editing**

Introduction to CRISPR-Cas9 technology and its applications.

Hands-on session on designing CRISPR experiments.

Practical demonstration of genome editing techniques.

### **10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

### **10:30 AM - 12:00 PM: Session 2: Epigenetic Profiling**

Exploring the role of epigenetics in gene expression.

Hands-on training on analyzing DNA methylation patterns.

Case studies on epigenetic changes in disease development.

### **12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Single-Cell DNA Profiling**

Hands-on session on single-cell sequencing techniques.  
Exploring the applications of single-cell DNA profiling in research.  
Case studies on advancements in single-cell genomics.

### **2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Future Trends in DNA Profiling**

Discussion on emerging trends and technologies in DNA profiling.  
Workshop on integrating new technologies in DNA profiling workflows.  
Case studies on the future impact of DNA profiling in various fields.

### **4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

### **4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.  
Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

**Certificate Issue**

### **5:30 PM: Workshop Concludes**

## **5. Workshop in Ethical and Legal Perspectives in DNA Profiling**

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual



**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

**8:45 AM - 10:15 AM: Session 1: Ethical Considerations in DNA Profiling**

Overview of ethical issues in DNA profiling.

Case studies on privacy concerns and consent in genetic testing.

Workshop on addressing ethical dilemmas in DNA research.

**10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break**

Networking and refreshments.

**10:30 AM - 12:00 PM: Session 2: Legal Frameworks for DNA Profiling**

Exploring legal regulations and guidelines for DNA profiling.

Case studies on the impact of legal decisions on DNA evidence.

Workshop on understanding international laws and policies.

**12:00 PM - 1:00 PM: Lunch Break**

Catered lunch and networking opportunity.

**1:00 PM - 2:30 PM: Session 3: DNA Databases and Privacy**

Hands-on session on managing DNA databases.

Exploring the balance between privacy and public safety.

Case studies on the use of DNA databases in law enforcement.

**2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Public Perception and Education**

Workshop on improving public understanding of DNA profiling.  
Techniques for effective science communication.  
Case studies on public engagement and education initiatives.

### **4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

### **4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.  
Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

**Certificate Issue**

### **5:30 PM: Workshop Concludes**

Note: NTHRYS Management reserves the right to modify the workshop module at any time without prior notice. Registered or enrolled candidates will receive the module that is current on the day of enrollment.

## **NTHRYS Workshops Department**

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**Email: workshops ( a t ) nthrys [ d0t ] com**

## **Dna Profiling Workshops Application Process**

1. Select a workshop from the list.
2. Contact via whatsapp on the number present above to request fee details and dates suitable for joining. Alternatively, you can send an email to workshops ( a t ) nthrys [ d 0 t ] com.
3. Our Workshop department will contact you promptly to provide further assistance.