



## Skill Development Program

On

# “Wildlife DNA Forensics” (WF-16)

07<sup>th</sup> – 12<sup>th</sup> September 2026

**Objective:** To sensitize and provide hands on training to participants on DNA Technology and its use in Wildlife Forensics.

### **Eligibility:**

- Working Officers:** Any officer working in wildlife and forest departments at/a over the Range Forest Officer, Police, coastguard, customs, central excise, Food safety authentication department, judiciary, other enforcement departments, academic institutions, university or a research laboratory
- Students:** B.Sc. degree holders and above

<b>No. of seats</b>	: 12-14
<b>Target Audience</b>	: Bachelors/Masters in any branch of Life Science/Allied areas
<b>Mode of the Course</b>	: In-house training at CSIR-CCMB, Hyderabad
<b>Mode of selection</b>	: Application form & Statement of Purpose
<b>Fee Particulars</b>	: Rs.15,000/- (including accommodation & GST)
<b>Course Code</b>	: <b>WF-16</b>
<b>Apply using the link</b>	: <a href="http://recruitment.cmb.res.in/training_programs/sdp/">http://recruitment.cmb.res.in/training_programs/sdp/</a>



### **Training Curriculum:**

- Introduction to DNA, DNA technology and its applications in wildlife forensics
- Status of Wildlife crime in India
- Case Studies from Wildlife DNA Forensics Lab, CSIR-CCMB
- Genetic Sampling Techniques, Proper collection, preservation, packaging and transportation of biological samples collected in the field
- Isolation of DNA from various type of biological samples
- Quantification of DNA by spectrophotometric and in-gel methods
- Selection of DNA Markers, Primer Designing.
- Provide knowledge about the “Universal Primers” technology for Species Identification developed by CSIR-CCMB.
- PCR amplification of the DNA isolated from various types of biological samples
- Sequencing and Data analysis of PCR products for Species Identification
- Understanding the use of Microsatellite markers and Sex specific markers for individual identification, relatedness and sexing
- PCR amplification using single/multiplex markers
- Genotyping and scoring of alleles: DNA profiling
- Data analysis for individual identification, relatedness, and sexing
- Troubleshooting
- Report Preparation

### **Salient Features of the Training:**

- Expert instructors/Resource Persons will provide lectures and hands on training
- Exposure to laboratory safety regulations
- Interaction with the **leading scientists and experts** in the field
- Evaluation assignments and Trouble-shooting sessions
- Certificate of participation will be issued to the participants

#### **Course Coordinator:**

Dr. Ajay Gaur  
Scientist-G  
In-Charge - Wildlife Forensics  
CSIR-CCMB, Hyderabad.

#### **Program Coordinator:**

Dr. Archana Bharadwaj Siva  
Scientist-G  
Nodal Scientist - Skill Development Program  
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