

ICMR - National Institute for Research in Environmental Health (NIREH) Bhopal Bypass Road, Bhauri, Bhopal - 462 030 (MP), India

IXth Summer Internship Programme in Environmental Epigenetics (12th to 28th June 2024)

The Summer Internship Programme in Environmental Epigenetics is a 15-days hands-on training course offered by ICMR-NIREH, Bhopal. Participants of this programme will experience the excitement of working in a unique academic ambience apt for cutting-edge scientific discourse. During this programme greater emphasis will be laid on the fundamental wet-lab tools and techniques relevant to environmental epigenetics.

Course Content: Basic and advanced techniques pertaining to the field of environmental epigenetics shall be covered.

1)	Isolation	of DNA,	RNA &	Proteins
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- 2) PCR and Reverse Transcriptase PCR
- 3) Agarose Gel Electrophoresis
- 4) Real Time PCR
- 5) Multiplex RT-RT PCR
- 6) SDS-PAGE & Western Blot Analysis
- 7) Double Sandwich ELISA
- 8) mtDNA Fragmentomics and Mutation Analysis
- 9) Mitochondrial ISR Analysis
- 10) Methylation-Specific PCR

- 11) Histone Methylation Arrays
- 12) MicroRNA Characterization
- 13) IncRNA Isolation & Identification
- 14) RNA Methylation Analysis
- 15) mtDNA Methylation Analysis
- 16) Multi-photon Image Analysis
- 17) Nanocytometry Analysis
- 18) ddPCR Based Assays
- 19) Principles of Bioethics
- 20) Biosafety and GLP Practices
- 21) Flow Cytometric Assays

Eligibility: Students pursuing graduate, post-graduate and doctoral courses are encouraged to apply.

Seats: Only 20 students will be admitted in this course on "First Come First Serve" basis.

Application Procedure: Applications should be submitted through Google Form (https://bit.ly/4bk2WzX) on or before **May 30, 2024**. Participants must make their own arrangements for food and travel. Accommodation on sharing basis is available in Institute's guest house on payment basis.

Registration Fees: Rs. 10000/= only (excluding food, travel, and accommodation charges).

For any further queries, please contact:

COURSE COORDINATOR - SIPEE 2024

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