

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

#### Summer Internship Programme in Environmental Epigenetics (15<sup>th</sup> to 30<sup>th</sup> June 2023)

The Summer Internship Programme in Environmental Epigenetics is a fully residential two weeks long 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
- 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
- Isolation & Characterization of Mitochondrial (mt) DNA and mtDNA 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) Immune-Subset Enumeration
- 18) Isolation and Characterization of Circulating Epigenomic Signatures and Point-of-Care Detection Assays

**Eligibility:** Students pursuing graduate (B.Tech.) and post-graduate courses (M.Sc/M.Tech.) in biological sciences are encouraged to apply.

Seats: Only 25 students will be admitted in this course.

**Application Procedure:** Applications on prescribed format (specifying e-mail id and mobile contact number) along with self-attested copies of mark-sheets and degree certificates must reach through e-mail to the "**Course Coordinator, ICMR - National Institute for Research in Environmental Health (NIREH), Bypass Road, Bhauri, Bhopal - 462 030 (MP), India**" on or before **31**<sup>st</sup> May, **2023**.

**Selection:** Procedure of screening and selection will be based upon academic credentials only. The list of selected candidates will be posted at institute's website on **2<sup>nd</sup> June, 2023.** 

Fees: Registration fee for this fully residential course is Rs. 15000/= only.

#### FOR APPLICATION, PLEASE USE THE PRESCRIBED FORMAT AND SEND THROUGH E-MAIL ONLY

### **Application Form**

## Summer Internship Programme in Environmental Epigenetics (15<sup>th</sup> to 30<sup>th</sup> June 2023)

Name:

Age:

Sex:

Academic Qualifications (attach copies of mark sheets/certificates):

S. No.	Name of Exam.	Board/College/Univ.	Year	Division	% / CGPA obtained
01	HSC (Xth)				
02	HSSC (10+2)				
03	B Sc/B Tech/ B Pharm (UG)				
04	M Sc/M Tech/ M Pharm (PG)				

Address for Correspondence:

E-mail id:

Mobile No.:

(Signature of the Applicant with Date)

Please send your application only through E-MAIL to:

COURSE COORDINATOR - SIPEE 2023 Division of Environmental Biotechnology, Genetics & Molecular Biology ICMR-National Institute for Research in Environmental Health (NIREH) Bypass Road, Bhauri, Bhopal - 462 030 (MP), India

# academics.nireh@gmail.com

Application Deadline: 31<sup>st</sup> May 2023

Paste your recent coloured self-attested photograph here