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

Summer Internship Programme in Environmental Epigenetics
(15th to 30th 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  
8) 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 & Circulating Epigenomic Signatures and Point-of-Care Detection Assays  
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 31st 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 2nd 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
(15th to 30th June 2023)

Name:
Age:
Sex:

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

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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: 31st May 2023