



icmr
INDIAN COUNCIL OF
MEDICAL RESEARCH

NIREH
NATIONAL INSTITUTE FOR RESEARCH
IN ENVIRONMENTAL HEALTH

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

Hands-on Training Programme in Environmental Molecular Sciences (December 1 - 10, 2021)

The “Hands-on Training Programme in Environmental Molecular Sciences” is a ten days long hands-on training course offered by the Department of Molecular Biology, ICMR-National Institute for Research in Environmental Health (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 cell and molecular biology.

Course Content: Basic and fundamental techniques pertaining to the field of environmental molecular sciences shall be covered.

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| 1) Isolation and Quantification of DNA/RNA | 11) Isolation and Quantification of Proteins |
| 2) Multiplex PCR | 12) SDS-PAGE |
| 3) Hot Start PCR | 13) Western Blot |
| 4) Reverse Transcriptase PCR (RT-PCR) | 14) Cell Culture |
| 5) Repetitive Sequence-based PCR | 15) Cell Growth and Proliferative Index |
| 6) Long-Range PCR | 16) DNA Damage and Apoptosis Assay |
| 7) Real Time PCR | 17) Mitochondrial DNA Mutation Analysis |
| 8) Multiplex RT-RT PCR | 18) Mitochondrial Integrated Stress Response Analysis |
| 9) Methylation-Specific PCR | 19) DNA Sequencing |
| 10) Agarose Gel Electrophoresis | |

Eligibility: Students pursuing post-graduate courses in biological sciences, pharmaceutical sciences and medical sciences are encouraged to apply.

Seats: Only 25 (twenty five) students will be admitted for the course.

Application Procedure: Applications in the prescribed format along with necessary enclosures should be submitted through e-mail to academics.nireh@gmail.com on or before 21st November, 2021.

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 24th November, 2021.

Fees: Registration fee of the course is Rs. 3500/= (non-refundable) only. No lodging/boarding/transport shall be provided and the participants have to make their own arrangements for the same.

For application, you are required to use the prescribed format only and send through e-mail to academics.nireh@gmail.com on or before 21st November 2021.