



icmr
INDIAN COUNCIL OF
MEDICAL RESEARCH

NIREH
NATIONAL INSTITUTE FOR RESEARCH
IN ENVIRONMENTAL HEALTH

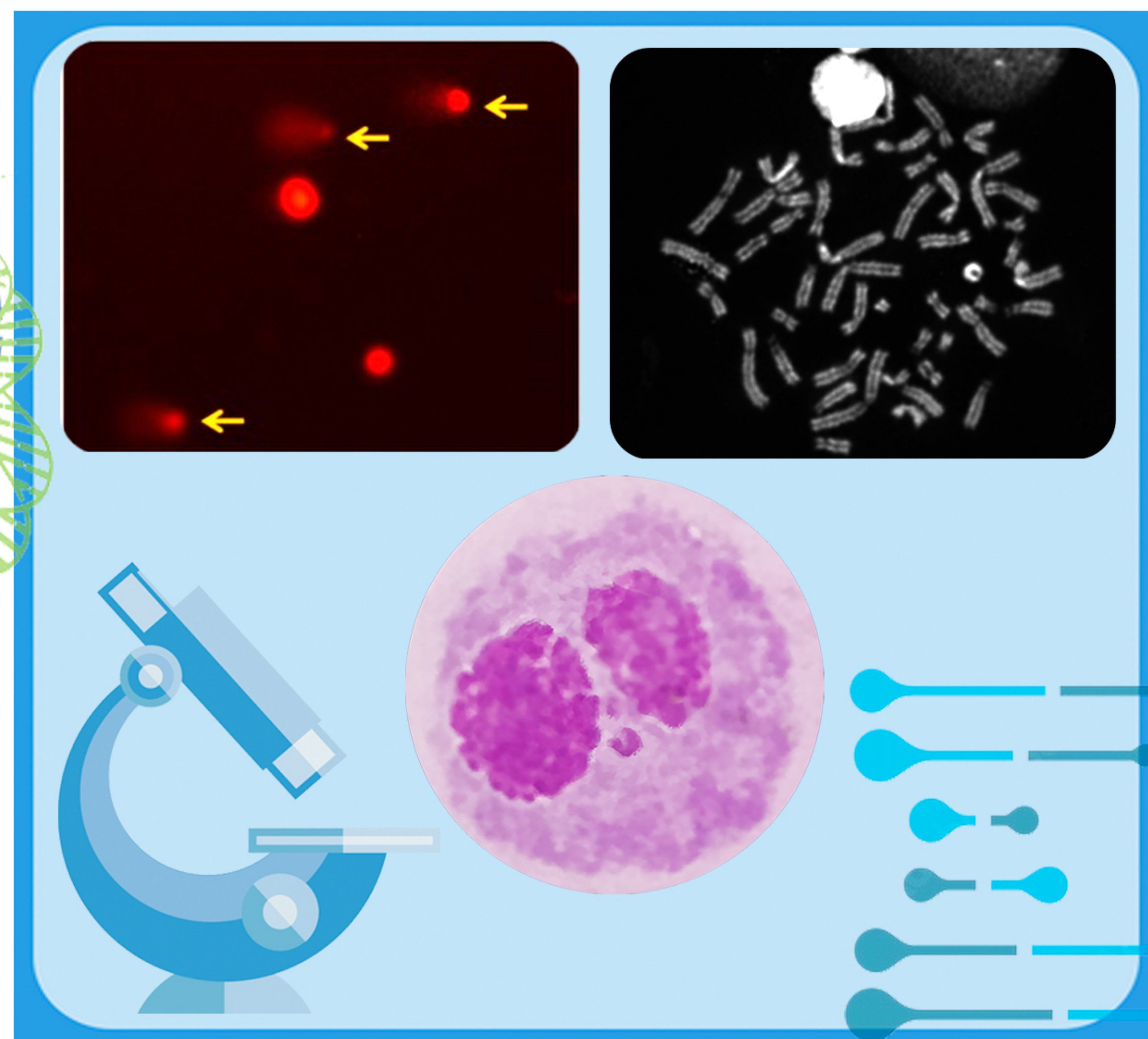
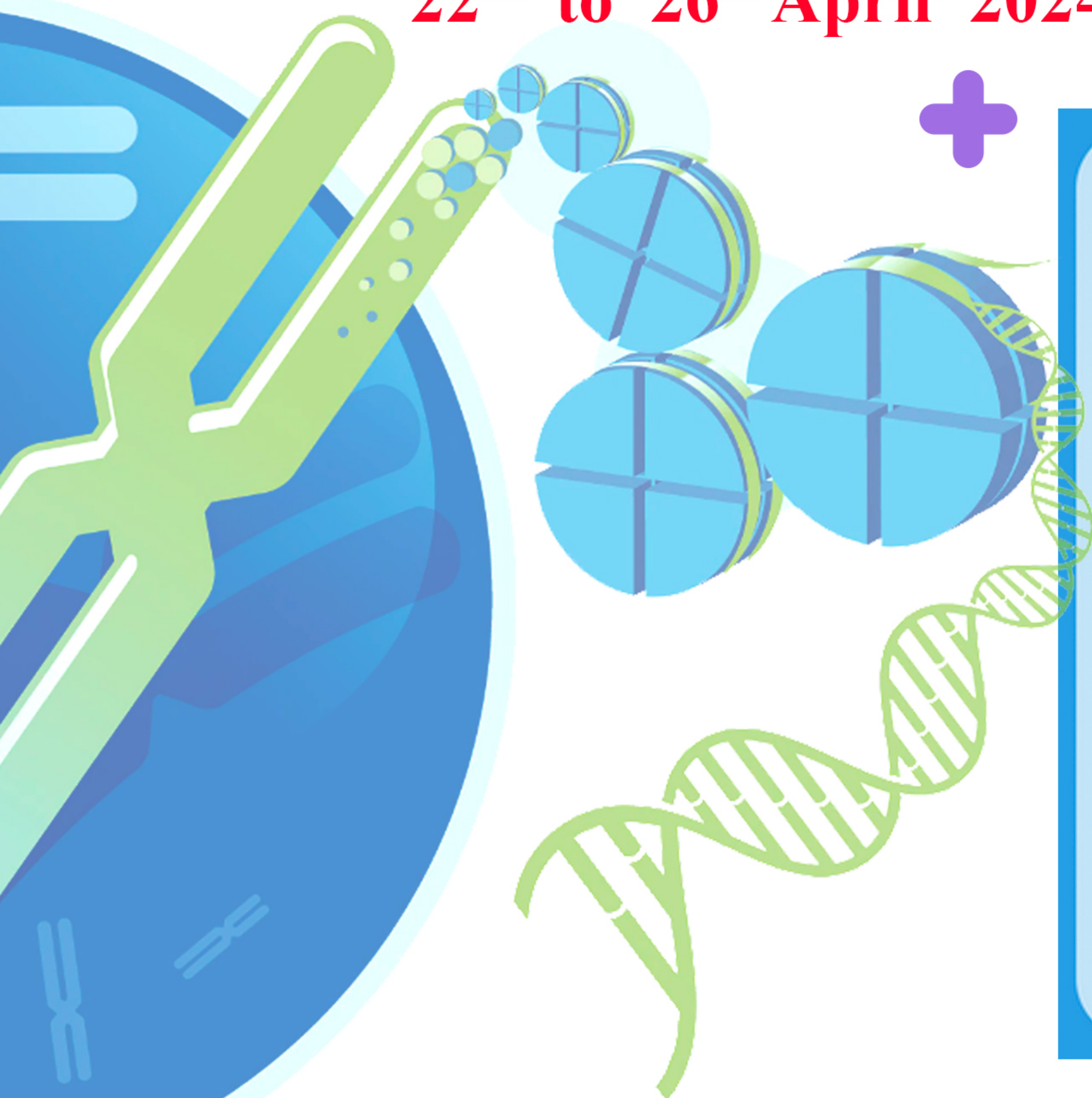
NATIONAL WORKSHOP ON

“Cytogenetics and

Genotoxicity Methods in Environmental Exposure Studies”

DATE

22nd to 26th April' 2024 (Monday to Friday)



Organizing Secretary
Dr. Devojit Kumar Sarma, Sc – D,

Convener
Dr. P. K. Mishra, Sc - F

Co-Convener
Dr. Manoj Kumar, Sc – D

Patron
Dr. R. R. Tiwari,
Director, ICMR-NIREH, Bhopal

Intake Capacity: 25 Participants

Last date for submission of application: 31st March' 2024

Last date for submission of course fee: 6th April' 2024

VENUE

**ICMR-National Institute for Research in
Environmental Health, Bhopal**

About the Workshop

Cytogenetics and genotoxicity methods are valuable tools in environmental exposure assessment as they can help to identify and characterize the potential for harmful effects of environmental contaminants on human health. Cytotoxicity and Genotoxicity assays can be used to screen environmental samples for the presence of agents that can damage DNA. This information can be used to prioritize further testing and to identify potential human health hazards and to assess the risk of cancer and other non-communicable diseases. Cytogenetic and genotoxicity methods can be used to identify biomarkers of exposure, which are biological indicators that an individual has been exposed to a particular genotoxic agent. This information can be used to track exposure levels and to assess the effectiveness of interventions to reduce exposure. By using these methods, scientists and researchers working on environmental health and toxicology can gain valuable insights into the potential for harmful effects of environmental contaminants on human health. This information can be used to inform decision making about environmental protection and public health.

Workshop objectives and contents

This workshop is designed to provide a basic theoretical as well as practical insights into different assays used in cytogenetics, genetic toxicology and environmental biotechnology. The programme aims to develop trained manpower in the field of genetic toxicology. The proposed workshop contains:

- a) Basic concepts of:
 - ➔ Cell culture and human lymphocyte preparation
 - ➔ Chromosomal aberrations
 - ➔ Cytotoxicity and genotoxicity assays
- b) Hands on training on:
 - ➔ Cytotoxicity testing using cell lines and human lymphocytes
 - ➔ Chromosome preparation
 - ➔ Genotoxicity assay
 - ✓ CBMN assay
 - ✓ Comet assay

Workshop Fee

Rs. 5,000/- for faculties, scientists; **Rs. 3,000/-** for PhD scholars, Research scholars. The course fee includes a course kit and breakfast, working lunch, and tea during the training period. The candidate will be provided accommodation in the Institute's guest house on payment of charges on first come first serve basis.

Who can participate?

- University and Medical Faculties/ Scientists
- Research scholars, PhD and post doctoral students

Contact Details:

For accommodation

☎ **9893287041, 9301038619**

For registration and others

☎ **9435739021, 8121450098**

E-mail: nirehworkshop@gmail.com

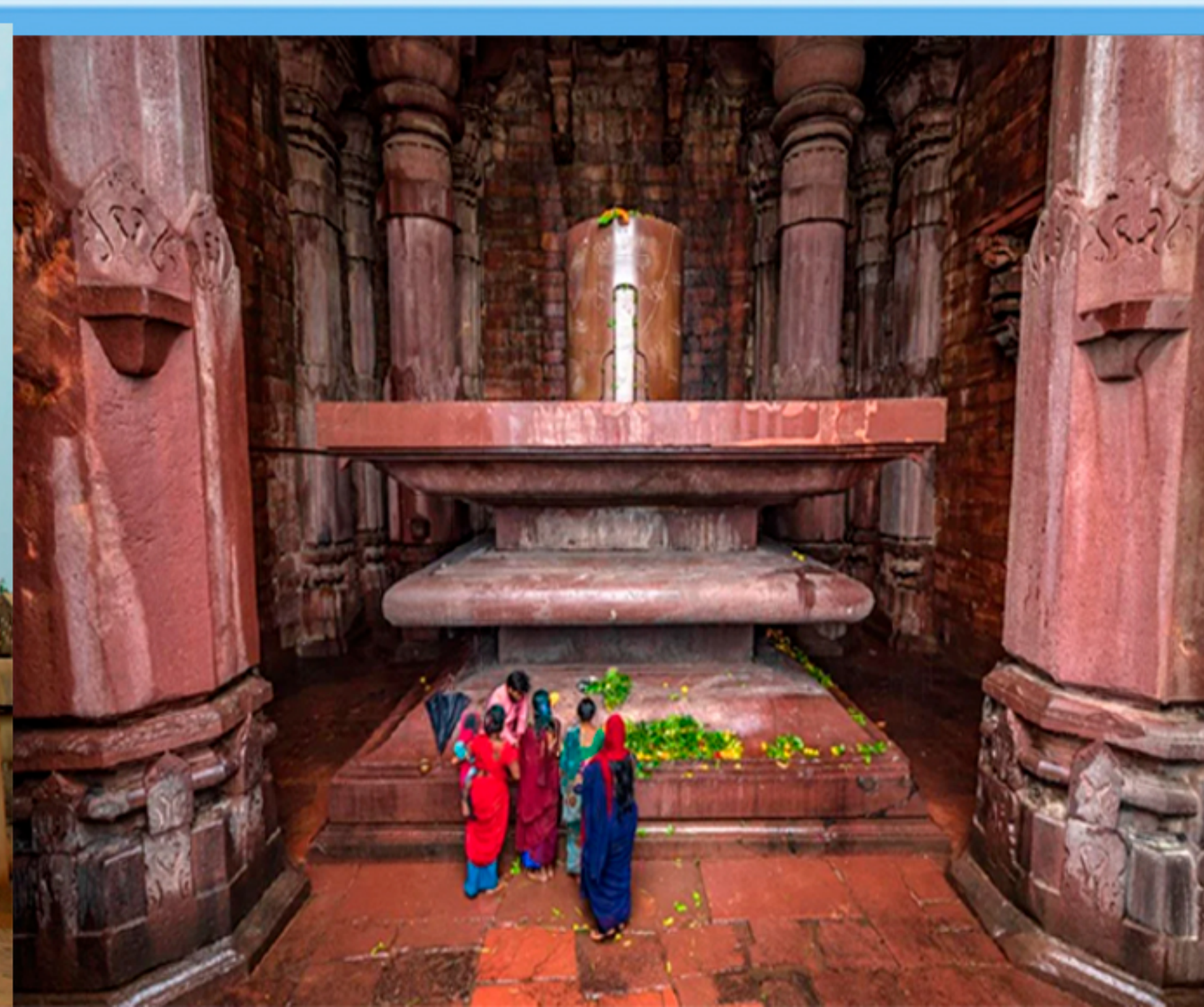
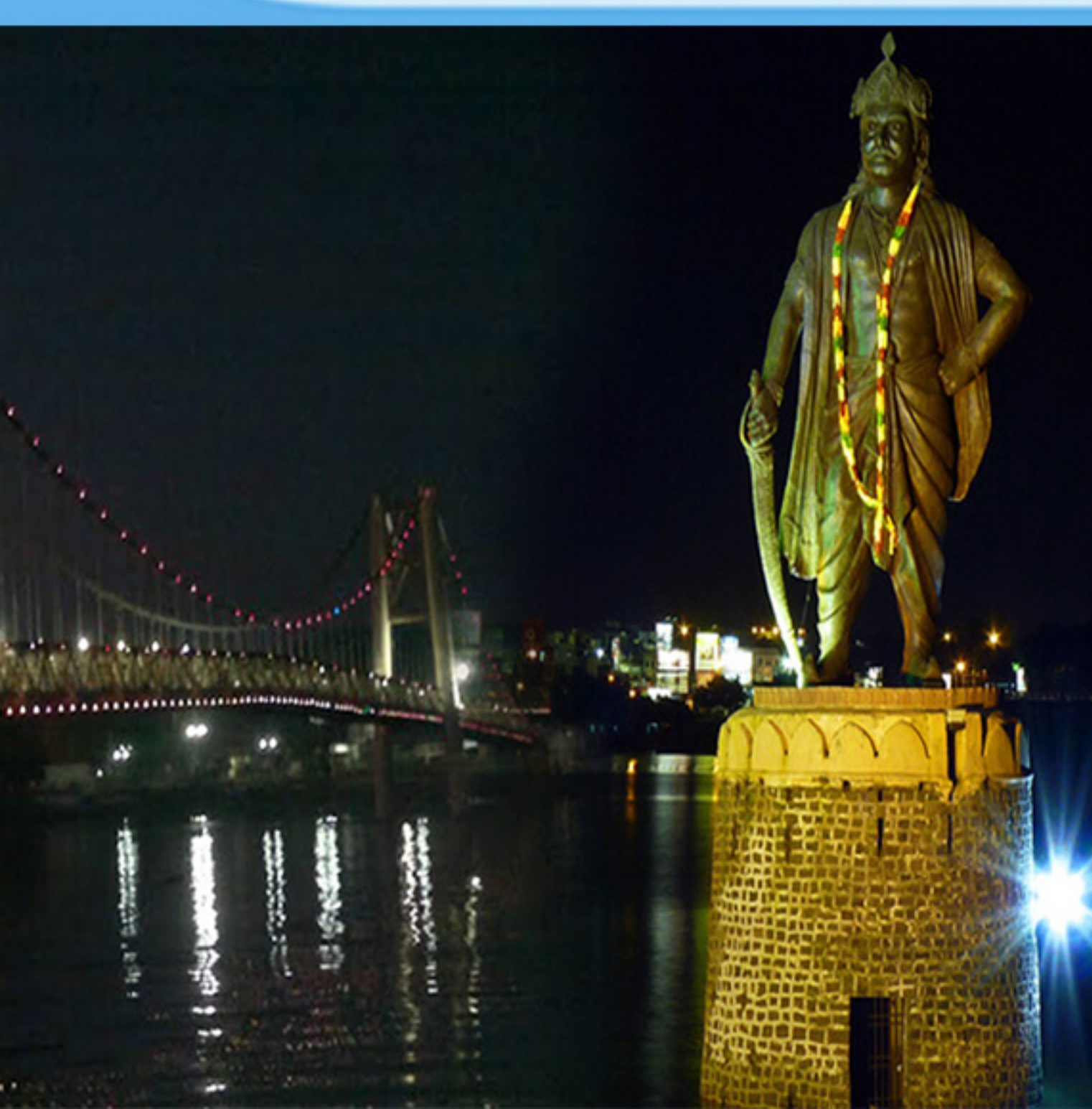
About ICMR-NIREH

The National Institute for Research in Environmental Health (NIREH), Bhopal is one of the permanent institutes of the Indian Council of Medical Research (ICMR), a Government of India's apex autonomous organization for bio-medical research in the country. Originating in response to the tragic gas leak in Bhopal in 1984, its primary focus was to comprehensively understand the health ramifications of the disaster. Subsequently, evolving into NIREH, it delves into the intricate interplay between environmental factors and human health. NIREH is dedicated to exploring the nexus between environmental conditions and public health outcomes. Its mandate extends to conducting rigorous research aimed at safeguarding communities from the adverse effects of acute and chronic environmental exposures.



About Bhopal

Bhopal, the capital city of Madhya Pradesh, seamlessly combines rich cultural heritage with modernity. Landmarks like the Taj-ul-Masajid and Shaukat Mahal reflect its architectural brilliance, blending Hindu and Mughal influences. Festivals such as Navratri, Diwali, and Eid are celebrated with vibrant fervor, showcasing the city's cultural diversity. The aroma of delicious street food fills the air, offering a tantalizing culinary experience that mirrors its multicultural identity. Moreover, Bhopal's serene lakes, like the iconic Upper Lake and Lower Lake, provide tranquil sanctuaries amidst the bustling urban landscape. These picturesque water bodies offer opportunities for leisurely boat rides and scenic picnics, drawing locals and tourists alike. With its blend of historical charm and contemporary vibrancy, Bhopal invites travelers to explore its captivating heritage. Every corner reveals a new facet of its rich past, making it a cultural haven for those seeking to delve into its intriguing history while experiencing the pulse of modern life.



WORKSHOP REGISTRATION FORM

National Workshop on Cytogenetics and Genotoxicity methods in Environmental Exposure Studies

April 22nd to April 26th, 2024

Name (in capital letters):

Designation:

Participant category (please tick):

☐ Faculty/Scientist ☐ Research Scholars ☐ others

(Specify).....

Research Area:

How this workshop is going to help in your research: (In 200 words max)

.....
.....
.....
.....
.....

Name of the Institution & Address

Address for Communication

.....
.....

Mobile Number:Email id:

Whether accommodation is required: YES ☐/ NO ☐

Signature of the Candidate:

Date: ____/____/____

Forwarding from Head of Institution/ Competent Authority:

Candidature of Dr./ Mr./ Miss/ Mrs..... working as, is forwarded for inclusion in the training course. The course fee will be sent by due date, if selected.

(Signature and seal of Competent Authority)

Name:

Designation:

Note: Please send the scanned copy of the filled registration form to email: nirehworkshop@gmail.com