



Vision

To become the institution of excellence for cross disciplinary research and innovation in environmental health

Mission

ICMR-NIREH is committed to excellence in:

- (A) Biomedical research on environmental health issues
- (B) Environmental exposure assessment and mitigation
- (C) Capacity building in environmental health

AREAS OF RESEARCH

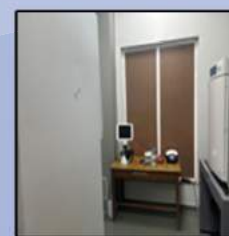
Air & Water pollution and its health effects
Chemical accidents and rapid response
Noise pollution and its health effects
Climate change and its impact on health
Gene-environment interactions and disease susceptibility
Epigenomics and Environmental Health
Exposure assessment and exposomes
Mitigation using environmental engineering

STRENGTHS

23 Scientists
>50 Technical staffs
> 80 Publications
annually



Cyto genetics
Lab



Cell Culture
Lab



NGS Facility



ICP-OES Facility



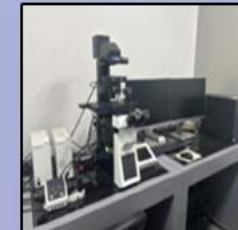
GC-MS Facility



Flow Cytometer



DD-PCR



Fluorescence
Microscopy

Ongoing Major Projects

- * Targeted detection of cell-free mitochondrial DNA in cardiovascular diseases using a nano-phonic assay system
- * Detection of cardiovascular disease biomarkers using smart carbon nanomaterials
- * Mechanism of triclosan induced toxicity
- * Tripartite relationship of Gut Dysbiosis, Blood Metabolome and Telomere length on Osteoarthritis
- * Effect of early-life exposures to ambient air particulate matter and heavy metal on child health
- * Health Epidemiological study on Antimicrobial Resistance
- * Removal of antibiotics from water
- * Climate change-associated variations in temperature, humidity, precipitation, and occurrence of extreme weather events on population-level mortality

Prominent Faculties

Dr. R. R. Tiwari | Dr. Y. D. Sabde | Dr. P. K. Mishra | Dr. V Diwan
| Dr. Rajasekaran S | Dr. M. Kumar

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