



International Conference & Hands-on Workshop
on
‘Applications of Molecular Genetics in Disease Diagnostics’
February 15-18, 2023



Sponsored by
Higher Education, Govt. of Uttar Pradesh, Lucknow

Organized by
Institute of Advanced Molecular Genetics & Infectious Diseases (IAMGID)
UGC-Center of Advanced Studies, University of Lucknow, Lucknow, India

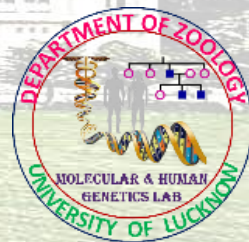
in Collaboration with
Molecular & Human Genetics Laboratory
Department of Zoology, University of Lucknow, Lucknow, India

Registration Link: <https://forms.gle/7g7xZJoiT8FWTNgM7>

NOTE: Number of participants for Hands-on Workshop is restricted to 30. Last Date for Registration and/or Abstract submission is 08 Feb 2023.

Schedule of Lectures/Workshop will be announced shortly.

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Lectures by Eminent Speakers from India and Abroad

List of experiments for Workshop

- ❑ Handling of cell lines, subculture, cells seeding and cryopreservation of cells.
- ❑ Cell counting by trypan blue and cytotoxicity assay by MTT.
- ❑ Studying Live and Apoptotic cells using AO/PI double staining.
- ❑ Studying ROS generation in cells by DCFDA stain.
- ❖ DNA extraction from human blood using salting out method.
- ❖ Detection of DNA by agarose gel electrophoresis.
- ❖ Quantification of DNA/RNA by UV-Vis biospectrophotometer.
- ❖ Genotyping of SNPs by PCR-Restriction Fragment Length Polymorphism (RFLP).
- ❖ Native Polyacrylamide Gel Electrophoresis (PAGE).
- ✓ Isolation of RNA from tissues/blood sample by Trizol method.
- ✓ cDNA synthesis by reverse transcription-PCR
- ✓ Gene expression by Real-Time PCR (RT-PCR).
- ✓ Estimation of total amount of protein in serum/tissue sample by Bradford method.

Institute of Advanced Molecular Genetics & Infectious Diseases (IAMGID) at University of Lucknow (UoL) is a step towards achieving the goal of imparting specialized education, training and research facility to young students who are interested in contributing towards health care.

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