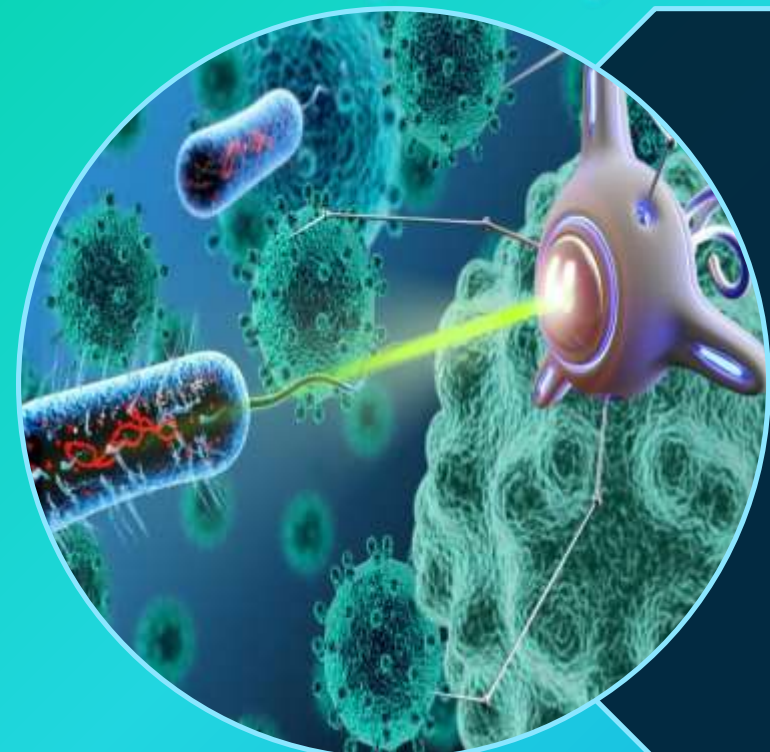




# Capacity Building Workshop- 2024



## Emerging Frontiers in Biomedical Research: Drug Resistance to Drug Delivery

**14<sup>h</sup> - 16<sup>th</sup> October, 2024**

Organized By  
**Synapse**

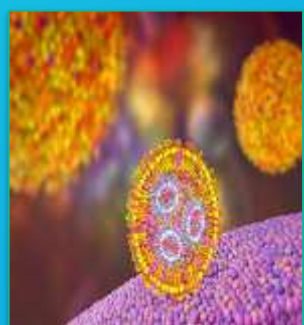
**Department of Zoology  
Miranda House, University of Delhi**

Sponsored by  
**Indian National Science Academy (INSA)**



### **ENVIRONMENT POLLUTION & HUMAN HEALTH**

Lecture and Hands-on-training on  
Bio resource  
& Pathogen Mapping



### **NANOTECHNOLOGY & DRUG DELIVERY**

Lecture and Hands-on-training on  
Nanoparticle Synthesis and Drug  
Loading



### **MOLECULAR DIAGNOSTICS**

Lecture and Hands-on-training on  
PCR, Gel Electrophoresis and  
Blood Group Typing

Scan to Register



Last date of Registration:  
October 5, 2024

**Limited seats available**

**Venue**

Mini Auditorium  
&  
Department of  
Zoology, Miranda  
House

**Prof. Bijayalaxmi Nanda**  
**Patron**  
**& Principal**  
**Miranda House**

**Prof. Rekha Kumari**  
**Convener**  
**Dr. Deepak Yadav**  
**Dr. Reetuparna Basak**  
**Organizing Secretary**

## Details of the Workshop

This workshop on Biomedical Research is designed to provide participants with a comprehensive understanding and practical training in research methods within biological and health sciences. Through interactive sessions, participants will acquire essential skills and gain insights into the principles of experimental and observational research. The workshop will delve into both foundational and cutting-edge research, guiding participants through innovative research practices.

Participants will gain hands-on experience with fundamental technologies such as nanoparticle formulation, Bio-resources for environmental pollution, Blood group typing and PCR for gene amplification. This training aims to empower participants to apply their knowledge in practical developments.

The workshop is committed to fostering a collaborative learning environment, enhancing participants' research ideas and experimental design within the biomedical research context. This workshop organized by the Department of Zoology at Miranda House, University of Delhi, aims to disseminate knowledge of biomedical research, current technologies, and techniques.

## Objectives

1. To cultivate a fundamental understanding of the role and importance of biomedical research and health sciences.
2. To train participants with the knowledge and skills necessary for designing robust and well-controlled experiments and observational studies.
3. To ensure hands-on proficiency with commonly used techniques, such as nanoparticle synthesis, Bio-resources for environmental pollution, Blood group typing and PCR for gene amplification, empowering participants to apply these methods in real-world research scenarios.
4. To enhance the capabilities of faculty and students involved in University of Delhi's core courses (Animal Biotechnology, Molecular Biology, Bioinformatics), DSE courses (Nanotechnology), and Generic Elective Courses (Animal Cell Biotechnology, Lifestyle Disorders, and Food, Nutrition and Health).
5. To promote collaboration and coordination among stakeholders for the advancement of biomedical research.

## Organizing Team

**Prof. Bijayalaxmi Nanda**

**Patron**

**Principal, Miranda House**

**Prof. Rekha Kumari**

**Convener**

**Dr. Deepak Yadav**

**Dr. Reetuparna Basak**

**Organizing Secretary**

**Organizing Members**

**Dr. Pooja Suman**

**Ms Saba Zulfiquar**

**Dr. Bhawna Chupal**

**Dr. Joni Yadav**

# Registration Fees (Non-refundable)

<b>Undergraduate Students (UG)</b>	<b>Rs. 300/-</b>
<b>Post-graduate Students (PG)</b>	<b>Rs. 500/-</b>
<b>Ph.D students/Research Scholars</b>	<b>Rs. 1000/-</b>

## Program Schedule

Day	Sessions	Timing	
Day 1	<b>Inaugural Ceremony</b> Lamp Lighting and Saraswati Vandana Welcome Address Address by Convener Address by Principal	9:00 am to 10:00 am	
	Inaugural Lecture	10:00 am to 10:30 am	
	Tea Break	10:30 am to 11:00 am	
	Keynote Lecture	11:00 am to 11:45 am	
	Instruction Sessions for Workshop	11:45 am to 12:45 pm	
	Lunch Break	12:45 pm to 1:15pm	
	Workshop Session	1:15 pm to 3:30 pm	
	Day 2	Keynote Lecture 1	9:30 am to 10:15 am
		Tea Break	10:15 am to 10:30 am
Keynote Lecture 2		10:30 am to 11:15 am	
Keynote Lecture 3		11:15 am to 12:00 noon	
Instruction Sessions for Workshop		12:00 noon to 12:30 pm	
Lunch Break		12:35 pm to 1:00 pm	
Workshop Session		1:15 pm to 3:30 pm	
Day 3	Keynote Lecture 1	9:30 am to 10:15 am	
	Tea Break	10:15 am to 10:30 am	
	Keynote Lecture 2	10:30 am to 11:15 am	
	Keynote Lecture 3	11:15 am to 12:00 noon	
	Lunch Break	12:00 noon to 12:30 pm	
	Workshop Session	12:30 pm to 3:00 pm	
	<b>Valedictory Ceremony</b> Welcome Address Address by Principal Address by Convener Certificate Distribution Concluding Remarks Vote of Thanks	3:00 pm to 4:00 pm	



# Speakers

<b>Prof. Narinder Kumar Mehra</b>	Head of the Department of Transplant Immunology and Immunogenetics of the SRL Limited, Gurgaon & Former Dean of Research AIIMS	
<b>Prof. Chirashree Ghosh</b>	Department of Environmental Studies, University of Delhi, New Delhi	
<b>Dr. Hemraj S. Nandanwar</b>	CSIR-Institute of Microbial Technology, Chandigarh, Haryana	
<b>Prof. Raj Kishore Sharma</b>	Department of Chemistry, University of Delhi, New Delhi	
<b>Prof. Mohd Samim</b>	Department of Chemistry, Jamia Hamdard, New Delhi	
<b>Prof. Mandira Varma Basil</b>	Vallabhbhai Patel Chest Institute, North Delhi, New Delhi	
<b>Prof. Sujata Mohanty</b>	Stem Cell, All India Institute of Medical Sciences, New Delhi	
<b>Dr. Meenakshi Sharma</b>	Dr. B. R. Ambedkar Centre for Biomedical Research, University of Delhi, New Delhi	

## Resource Person

**Prof. Rekha Kumari**  
**Dr. Kamlesh Kumari**  
**Dr. Pooja Suman**  
**Dr. Deepak Yadav**  
**Dr. Shalendra Kumar**

**Ms. Saba Zulfiquar**  
**Dr. Reetuparna Basak**  
**Dr. Joni Yadav**  
**Dr. Bhawna Chuphal**  
**Ms. Ankita Shelly**

For further Information Contact:

**Dr. Deepak Yadav (M.No. 9756058002) or Dr. Reetuparna Basak (M.No. 9911660104)**

**Email: [workshopzoologymh2024@mirandahouse.ac.in](mailto:workshopzoologymh2024@mirandahouse.ac.in)**