



SERB Sponsored High-End Workshop  
(Karyashala)

on

## ADVANCED TECHNIQUES IN PHARMACOLOGY AND TOXICOLOGY RESEARCH

**12-21 December, 2022**

### Organized by

Division of Pharmacology and Toxicology  
ICAR-Indian Veterinary Research Institute  
Izatnagar, Bareilly  
Uttar Pradesh- 243122  
Website: <http://www.ivri.nic.in/>



### PATRONS

Dr. Triveni Dutt, Director & Vice-Chancellor  
Dr. G. Saikumar, Joint Director (Research)  
Dr. Dinesh Kumar, Head, P&T Division

### EVENT ORGANIZER

Dr. Thakur Uttam Singh, Senior Scientist

### EVENT COORDINATORS

Dr. Subhashree Parida, Senior Scientist  
Dr. Madhu C L, Scientist (SS)  
Dr. Kesavan M, Scientist (SS)  
Dr. Aneesha V A, Scientist  
Dr. Shyamkumar T S, Scientist  
Dr. Anshuk Sharma, Scientist  
Dr. Meemansa Sharma, Scientist

### IMPORTANT DATES

Last date for registering 20.11.2022

Intimation of selection 25.11.2022

Commencement of  
Workshop 12.12.2022

### ELIGIBILITY

- Students pursuing post-graduate degrees (masters and PhD) in Pharmacology, Toxicology and other related disciplines are eligible to apply.
- Please note that number of participants is limited to 20 and workshop will be conducted in **physical mode**.

**REGISTRATION: FREE**

### TRAVEL AND ACCOMMODATION

- Selected participants will be reimbursed travel expenditure (Train fare up to AC-III tier class or state transport buses by the shortest route as per GOI norms).
- Food and accommodation will be provided by the organizers at the IVRI guest house.
- Participants should follow the institute COVID-19 guidelines.

### APPLICATION PROCEDURE

To apply for this training, applicants must fill out the attached application form and get it approved from their HOD/Dean/Competent authority and register for the training by clicking the following link:

<https://forms.gle/M9FguwgaEtgXMsm19>

## About the Institute

Indian Veterinary Research Institute (IVRI) is one of the premier research institutions in the country with more than 133 years of excellence in livestock research and development. The Institute has a major mandate of research, teaching, extension, consultancy and technology transfer activities. The institute offers best quality education to under-graduate and post-graduate students from various parts of the country, as well as from abroad. In addition to BVSc & AH, this institute provides degrees in more than 20 disciplines to masters and doctorate students in veterinary and animal sciences.

## About the Division

The Division of Pharmacology and Toxicology was established at IVRI in 1974. The Division has the distinction of developing experimental models for pharmacological and toxicological research, delineation of molecular mechanisms of action of various drugs and endogenous substances, herbal drugs, establishment of dosage regimens of drugs in small and large animals and safety evaluation of toxicants, etc. Research output has resulted in many patents and numerous research articles in reputed national and international journals. The students completing research work from the Division, have been placed in various positions of national and international acclaim.

## About the Workshop

This training is proposed with the aim to provide a hands-on experience to master and PhD students on the use of advanced pharmacological and toxicological techniques in biomedical research. Increasing interest has been noticed in students to learn classical techniques used in pharmacology and toxicology. This training is designed to include not only the classical pharmacological and toxicological techniques, but also the modern molecular biology and advanced imaging techniques. Hence, this course will provide a thorough exposure to students in the application of both basic and advanced techniques for research in pharmacology and toxicology.

## Course Contents

The proposed training programme includes classical pharmacological techniques (isolated tissue bath studies, isolated heart studies, inflammation and pain-related studies) along with molecular biology techniques (PCR, Western blot), advanced imaging techniques (scanning electron microscopy, *in-vivo* imaging), purification techniques such as affinity chromatography, and many others for an overall exposure to advanced techniques in pharmacological and toxicological research.

To know more about the program, please visit  
<https://acceleratevigyan.gov.in/programs/abhyas/karyashala>

### FOR ANY QUERIES, CONTACT:

**Dr. Thakur Uttam Singh**

(Event Organizer)

Senior Scientist

Division of Pharmacology and Toxicology  
ICAR-Indian Veterinary Research Institute  
Izatnagar, Bareilly, Uttar Pradesh- 243122

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**Application Form**  
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**On**  
**“ADVANCED TECHNIQUES IN PHARMACOLOGY AND**  
**TOXICOLOGY RESEARCH”**  
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1. Name of the Applicant :
2. Enrollment/Registration number :
3. Degree currently pursuing (PG/Ph.D):
4. Year of Study (1st/2nd/Final) :
5. Department :
6. Institute/University :
7. Correspondence Address :
8. Mobile Number and e-mail ID :
9. Academic Record :

PASSPORT SIZE  
PHOTOGRAPH

Sl. No.	Examination Passed (fill up to your current degree)	Subject (Major)	Year of Passing	Marks (%)/CGPA
1.	Bachelor Degree			
2.	Master Degree			
3.	Ph.D			
4.	Any other qualifications			

The above information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the programme.

Date:

Signature of the applicant

Signature of the Guide/HOD

Recommendation by the forwarding authority (HOD /Dean/Competent authority)

Dr/Mr/Ms. \_\_\_\_\_ is hereby nominated for participating in the SERB sponsored High-End Workshop at IVRI, Izatnagar from 12-21 December, 2022 in physical mode.

Date:

Signature and Seal