

## <u>Workshop Program Schedule</u> "Animal Handling & Experimental Pharmacology"



**Organized by Department of Pharmacology** 

Under aegis of Academic Society of Pharmacologist of Indira Gandhi Institute of Medical Sciences (ASPIGIMS)

Supported by Bihar Council for Science & Technology (BCST), Govt. of Bihar

Date: 18.10.2024 and 19.10.2024

Venue: Department of Pharmacology, IGIMS, Patna

TIME         SESSIONS         RESOURCE PERSONS           8:30-9:00 AM         Registration & Breakfast (Dean Board Room, 2 <sup>ard</sup> Floor, Administrative Building, IGIMS)           9:00-09:20 AM         Inauguration of Workshop & Welcome note Parton in Cheief: Prof. (Dr.) Bindey Kumar, Director, IGMS Pata Partoni: Prof. (Dr.) P Finho, Deputy (DRS, Pata Organizing Secretary, Dr. Maaish Kumar, Additional Prof. & Red. Dept. of Pharmacology, IGMS, Pata Organizing Secretary, Dr. Maaish Kumar, Additional Prof. Bed. Dept. of Pharmacology, IGMS, Pata Organizing Secretary, Dr. Maaish Kumar, Additional Prof., Bed. Opt. of Pharmacology, IGMS, Pata Organizing Secretary, Dr. Maaish Kumar, Additional Prof., Bed. Opt. of Pharmacology, IGMS, Pata Organizing Secretary, Dr. Maaish Kumar, Additional Prof., IGMS, Pata Organizing Secretary, David Discovery Additional Prof., IGMS, Pata Organizing Secretary, Dr. Manish Kumar, Additional Prof., IGMS, Pata Pata Rules & Guidelines         Dr. Manish Kumar, Additional Prof., IGMS, Pata Dr. Manish Kumar, Additional Profesor Dr. Pankaj Prabhakar, Scientist 1 Dr. Manish Kumar, Additional Profesor Dr. Pankaj Prabhakar, Scientist 1 Dr. Manoj Kumar, Veterinary Officer           10:00 AM 1:00 PM Will rotat to no off the officient on of species and Statistic Dr. Pankaj Prabhakar, Scientist 1 Dr. Manoj Kumar, Veterinary Officer         Dr. Manoj Kumar, Scientist 1 Dr. Manoj Kumar, Scientis	Day 1: 18-10-2024			
9:00-09:20 AM       Patron in Chief: Patron: Prof. (Dr.) Bindey Kumar, Director, IGIMS, Fatna Patron: Prof. (Dr.) B Fsihab, Pauna, IGIMS, Patna Organizing Secretary. Dr. Maais, Kumar, Addunal Prof. 8, Batna Organizing Secretary. Dr. Maais, Kumar, Addunal Prof. 9, Darmacology, IGMS, Patna Discovery.         09:20-09:40 AM       Inaugural Lecture: Current and Future Prospective of Animal Research in Drug Discovery.       Dr. U.S. Chakradhara Rao, Dept. of Marmacology, IGMS, Patna Org. Cambridge Control and Supervision of Experiments on Animals (CCSEA). Rules & Guidelines       Dr. V. Ramailingam, Associate Prof., Dept. of Pharmacology, IIMS, Ranchi Dr. Manish Kumar, Additional Professor Dr. Pankaj Prabhakar, Scientist I Dr. Manish Kumar, Veterinary Officer         11:00 AM-1:00 PM (Participants will be divided into four groups, and each group minutes) <ul> <li>Rodent biology and Gender four stations every 30 minutes)</li> <li>Paton: Port Core Pharmacology, IGMS, Patna</li> <li>Demonstration of techniques of ats, orbital plexus of rats</li> <li>Demonstration of Screening of Anti-Inflammatory activity</li> <li>Patonical Advission Professor, Dept. of Pharmacology, IGMS, Patna</li> <li>Demonstration of Screening of Anti-Inflammatory activity</li> <li>Demonstration of Screening of Anti-Inflammatory activity</li> <li>Demonstration of Scree</li></ul>	TIME	SESSIONS	<b>RESOURCE PERSONS</b>	
9:00-09:20 AM       Patron in Chief:       Prof. (Dr.) Bindy Kumar, Director. (EdMS, Patma Patron:         9:00-09:20 AM       Patron:       Prof. (Dr.) B Sinba, Deput. Of Pharmacology, IGMS, Patma Organizing Scientary:         09:20-09:40 AM       Current and Future Prospective of Animal Research in Drug Discovery.       Dr. U S Chaktradhara Rao, Current and Future Prospective of Animal Research in Drug Discovery.         09:40-10:00 AM       Committee for Control and Supervision of Experiments on Animals (CCSEA).       Dept. of Medical Oncology, IJPMER, Pondicherry Animal Research in Drug Discovery.         10:00-10:30 AM       Hands on training to fill the form B (IAEC)       Dr. P. Ramalingiam, Associate Prof, Dept. of Pharmaceutical Analysis, NIPER, Haijpur Ceam:         10:00-10:30 AM       ARRIVE Guidelines       Dr. D. Ramalingiam, Associate Prof, Dept. of Pharmaceutical Analysis, NIPER, Haijpur Ceam:         11:00 AM-1:00 PM       ARRIVE Guidelines       Prof. (Dr.) Umashanker Prasad Keshri, HOD, Dept. of Pharmacology, IGMS, Patma         11:00 AM-1:00 PM       • Rodent biology and Gender four stations or yers and sead group thriticipants will be divided in four groups, and each group minutes)       • Rodent biology and Gender tidentification of animal behavior and common, signs of illness       Dr. Manoj Kumar, Veterinary Officer, Dept. of Pharmacology, IGMS, Patma         0pt. of Pharmacology, 3 <sup>10</sup> Floor, Medical College Building, IGMS       Pathales, Scientist I, Det. of Pharmacology, IGMS, Patma       Dr. Antendad, Assistant Prof. SCT Medical College, Haryana & Dr. Nitus Pandey, PG Student, Dept	8:30-9:00 AM	<b>Registration &amp; Breakfast (Dean Board R</b>	Room, 2 <sup>nd</sup> Floor, Administrative Building, IGIMS)	
09:20-09:40 AM         Inaugural Lecture: Current and Future Prospective of Animal Research in Drug Discovery.         Dr. U S Chakradhara Rao, Dept. of Medical Oncology, JIPMER, Pondicherry Additional Prof., IGIMS, Patna           09:40-10:00 AM         Committee for Control and Supervision of Experiments on Animals (CCSEA): Rules & Guidelines         Dr. Manish Kumar, Dept. of Pharmacology, Additional Prof., IGIMS, Patna           10:00-10:30 AM         Hands on training to fill the form B (IAEC)         Dr. P. Ramalingam, Associate Prof., Dept. of Pharmaceutical Analysis, NIPER, Hajipur Team: Dr. Manish Kumar, Additional Professor Dr. Pankaj Prabhakar, Scientist 1 Dr. Manoj Kumar, Veterinary Officer           10:30-11:00 AM         ARRIVE Guidelines         Prof. (Dr.) Umashanter Prasad Keshri, HOD, Dept. of Pharmacology, RIMS, Ranchi           10:30-11:00 AM         ARRIVE Guidelines         Dr. Manoj Kumar, Veterinary Officer, Dept. of Pharmacology, IGIMS, Patna           11:00 AM-1:00 PM (Participants will be divided into four groups, and each group minutes)         • Rodent biology and Gender identification of animal behavior and commoni, signs of illness         Dr. Manoj Kumar, Veterinary Officer, Dept. of Pharmacology, IGIMS, Patna           Venue: Dept. of Pharmacology, IGIMS, Patna         - Demonstration of techniques (and intra- peritoneal administration of collection of blood from tail vein of rats, orbital plexus of rats         Dr. Nanedia, Assistant Prof., SGT Medical College, Haryana & Dr. Nitu Pandey, PG Student, Dept. of Pharmacology, IGIMS, Patna           Demonstration of Screening of rats, orbital plexus of rats         Dr. Nitu Pandey, PG Student, Dept.	9:00-09:20 AM	Patron in Chief:Prof. (Dr.) Bindey KumPatron:Prof. (Dr.) Om Kumar,Patron:Prof. (Dr.) Harihar DikPatron:Prof. (Dr.) B P Sinha, DOrganizing Chairman:Prof. (Dr.) Lalit Mohan	<b>ar</b> , Director, IGIMS, Patna Dean, IGIMS, Patna <b>shit</b> , Prof. Emeritus, Dept. of Pharmacology, IGIMS, Patna eputy Director, IGIMS, Patna , Prof. & Head, Dept. of Pharmacology, IGIMS, Patna	
09:40-10:00 AM       of Experiments on Animals (ČCSEA): Rules & Guidelines       Additional Prof., IGIMS, Patna         10:00-10:30 AM       Hands on training to fill the form B (IAEC)       Dr. P. Ramalingam, Associate Prof., Dept. of Pharmaceutical Analysis, NIPER, Hajipur         10:00-10:30 AM       ARRIVE Guidelines       Dr. Pankaj Prabhakar, Scientist 1 Dr. Manioh Kumar, Additional Professor         10:30-11:00 AM       ARRIVE Guidelines       Prof. (Dr.) Umashanker Prasad Keshri, HOD, Dept. of Pharmacology, RIMS, Ranchi         11:00 AM-1:00 PM (Participants will be divided into four groups, and each group will rotate to one of the four stations every 30 minutes)       Rodent biology and Gender identification of animal behavior and common, signs of illness       Dr. Amrendra Kumar, Aya, Senior Resident, Dept. of Pharmacology, IGIMS, Patna         Venue: bept of Pharmacology, Subcutaneous, intramuscular, and instruments for oral feeding (gavage); subcutaneous, intramuscular, and intra-peritoneal administration       Dr. Pankaj Prabhakar, Scientist I, Dept. of Pharmacology, IGIMS, Patna         Demonstration of techniques collection of blood from tail vein of rats, orbital plexus of rats       Dr. Anita Mondal, Assistant Prof., SCT Medical College, Haryana & Dr. Nitte Pandey, PG Student, Dept. of Pharmacology, IGIMS, Patna         Demonstration of Screening of Anti-inflammatory activity       Dr. Nitesh Kumar, Assistant Prof., SCT Medical College, Haryana & Dr. Nitte Andey, PG Student, Dept. of Pharmacology, KIMS, Patna         Demonstration of Screening of Dr. Nitesh Kumar, Assistant Profesor, Dept. of Drugs on Wound Healing       Dr. Nitesh Kuma	09:20-09:40 AM	Inaugural Lecture: Current and Future Prospective of	Dr. U S Chakradhara Rao,	
10:00-10:30 AM(IAEC)Pharmaceutical Analysis, NIPER, Hajipur Team: Dr. Manish Kumar, Additional Professor Dr. Pankaj Prabhakar, Scientist I Dr. Manoj Kumar, Veterinary Officer10:30-11:00 AMARRIVE GuidelinesProf. (Dr.) Umashanker Prasad Keshri, HOD, Dept. of Pharmacology, RIMS, Ranchi11:00 AM-1:00 PM (Participants will be divided into four groups, and each group will rotate to one of the four stations every 30 minutes)• Rodent biology and Gender identification of aboratory animals, identification of species and strain • Handling of Rodents (Mice and Rats), Rabbits, Guinea pigs • Demonstration of techniques and intra- peritoneal administration • Demonstration of techniques of college Building, IGIMS, PatnaDr. Annea/rag, Senior Resident, Dept. of Pharmacology, IGIMS, PatnaDept. of Pharmacology, 3rd Floor, Medical College Building, IGIMS• Demonstration of techniques of collection of blood from tail vein of rats, orbital plexus of ratsDr. Arka Mondal, Assistant Prof., SGT Medical College, Haryana & Dr. Nitu Pandey, PG Student, Dept of Pharmacology, IGIMS, PatnaDemonstration of Screening of Anti-inflammatory activityDr. Arka Mondal, Assistant Prof., SGT Medical College, Haryana & Dr. Nitu Pandey, PG Student, Dept of Pharmacology, NIPER, Hajipur, Vaishali, Bihar & Dr. Bhawana A. Verma, PG Student, Dept. of Pharmacology, IGIMS, Patna	09:40-10:00 AM	of Experiments on Animals (CCSEA):		
10:30-11:00 AMDept. of Pharmacology, RIMS, Ranchi11:00 AM-1:00 PM (Participants will be divided into four groups, and each group will rotate to one of the four stations every 30 minutes)• Rodent biology and Gender identification of species and strain lentification of animal behavior and tommon, signs of illnessDr. Manoj Kumar, Veterinary Officer, Dept. of Pharmacology, IGIMS, PatnaVenue: Dept. of Pharmacology, 3rd Floor, Medical College Building, IGIMS• Radents (Mice and Rats), subcutaneous, intramuscular, and intra- peritoneal administration Demonstration of techniques of collection of blood from tail vein of rats, orbital plexus of ratsDr. Arka Mondal, Assistant Prof., SGT Medical College, Haryana & Dr. Nitu Pandey, PG Student, Det. of Pharmacology, IGIMS, PatnaDemonstration of Screening of of Drugs on Wound HealingDr. Nitue Panacology, IGIMS, PatnaDemonstration of Screening of Effect of Drugs on Wound HealingDr. Nitue Panacology, IGIMS, PatnaDemonstration of Screening of Effect of Drugs on Wound HealingDr. Nitue Panacology, IGIMS, Patna	10:00-10:30 AM	(IAEC)	Pharmaceutical Analysis, NIPER, Hajipur <u>Team:</u> Dr. Manish Kumar, Additional Professor Dr. Pankaj Prabhakar, Scientist I	
11:00 AM-1:00 PM (Participants will be divided into four groups, and each group will rotate to one of the four stations every 30 minutes)identification of laboratory animals, identification of species and strain . Identification of animal behavior and common, signs of illnessVeterinary Officer, Dept. of Pharmacology, IGIMS, PatnaWenue: Dept. of Pharmacology, 3rd Floor, Medical College Building, IGIMS- Handling of Rodents (Mice and Rats), Rabbits, Guinea pigsDr. Pankaj Prabhakar, Scientist I, Dept. of Pharmacology, IGIMS, PatnaDept. of Pharmacology, 3rd Floor, Medical College Building, IGIMS- Demonstration of techniques of collection of blood from tail vein of rats, orbital plexus of ratsDr. Arka Mondal, Assistant Prof., SGT Medical College, Haryana & Dr. Nitu Pandey, PG Student, Dept. of Pharmacology, IGIMS, PatnaDemonstration of Screening of of Drugs on Wound HealingDr. Nitesh Kumar, Assistant Professor, Dept. of Pharmacology, IGIMS, Patna	10:30-11:00 AM	ARRIVE Guidelines		
Dept. of Pharmacology, IGIMS, PatnaDemonstration of Screening of Effect of Drugs on Wound HealingDr. Nitesh Kumar, Assistant Professor, Dept. of Pharmacology & Toxicology, NIPER, Hajipur, Vaishali, Bihar & Dr. Bhawana A. Verma, PG Student, Dept. of Pharmacology, IGIMS, Patna	11:00 AM-1:00 PM (Participants will be divided into four groups, and each group will rotate to one of the four stations every 30 minutes) Venue: Dept. of Pharmacology, 3 <sup>rd</sup> Floor, Medical	<ul> <li>identification of laboratory animals, identification of species and strain</li> <li>Identification of animal behavior and common, signs of illness</li> <li>Handling of Rodents (Mice and Rats), Rabbits, Guinea pigs</li> <li>Demonstration of techniques and instruments for oral feeding (gavage); subcutaneous, intramuscular, and intra- peritoneal administration</li> <li>Demonstration of techniques of collection of blood from tail vein of rats, orbital plexus of rats</li> <li>Demonstration of Screening of</li> </ul>	Veterinary Officer, Dept. of Pharmacology, IGIMS, Patna Dr. Amrendra Kumar Arya, Senior Resident, Dept. of Pharmacology, IGIMS, Patna Dr. Pankaj Prabhakar, Scientist I, Dept. of Pharmacology, IGIMS, Patna Dr. Ruhi Bhimseria, PG Student, Dept. of Pharmacology, IGIMS, Patna Dr. Arka Mondal, Assistant Prof.,	
		Demonstration of Screening of Effect	Dr. Nitu Pandey, PG Student, Dept. of Pharmacology, IGIMS, Patna Dr. Nitesh Kumar, Assistant Professor, Dept. of Pharmacology & Toxicology, NIPER, Hajipur, Vaishali, Bihar & Dr. Bhawana A. Verma, PG Student,	
	1:00-2:00 PM	LUNCH (Dept. of Pharmacology, 3rd Flo		

2:00-04:00 PM (Participants will be divided into four groups, and each group will rotate to one of the	Demonstration of Screening of Antiepileptic Activity Demonstration of Screening of Analgesic Activity	Dr. Sunil Kumar Singh, Associate Prof., Dept. of Pharmacology, AIIMS, Patna & Dr. Rajeev Kumar Niraj, PG Student, Dept. of Pharmacology, IGIMS, Patna Dr. Amritanshu Shekhar, Assistant Professor, Dept. of Pharmacology, NSMCH, Bihta Dr. Pallavi Kumari, DM Student & Dr. Chandani Kumari, PG Student,
four stations every 30 minutes) Venue: Department of	Demonstration of screening of Anti- anxiety Activity	Dept. of Pharmacology, IGIMS, Patna <b>Prof. (Dr.) Lalit Mohan</b> , Prof. & Head, Dept. of Pharmacology, IGIMS, Patna & <b>Dr. Mukesh Kumar</b> , CMO cum Senior Resident, Dept. of Pharmacology, ESICMCH, Bihta, Patna
Pharmacology, 3 <sup>rd</sup> Floor, Medical College Building, IGIMS	Demonstration of Screening of Effect of Drugs on Neuromuscular Coordination	<ul> <li>Prof. (Dr.) Manish Kumar, Professor,</li> <li>Dept. of Physiology, IGIMS, Patna &amp;</li> <li>Dr. Chakrapani Kumar, DM Student &amp; Dr.</li> <li>Purnendu Arya, Senior Resident,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> </ul>
04:00-05:00 PM Venue: Dean Board Room, 2nd	Panel Discussion: Toxicity study requires animals?	Moderator: Prof. (Dr.) Harihar Dikshit, Dean Academics & HOD, Dept. of Pharmacology, NSMCH, Bihta Panelists: • Prof. (Dr.) N R Biswas, Vice Chancellor,
Floor, Administrative Building, IGIMS	C SOCIETY	<ul> <li>Sri Balaji Vidyapeeth, Pondicherry</li> <li>Prof. (Dr.) Bikash Medhi, Professor, Dept. of Pharmacology, PGIMER, Chandigarh</li> <li>Prof. (Dr.) Ranjit Guha, Principal, IGIMS, Patna</li> <li>Prof. (Dr.) Rakesh K. Dixit, HOD, Dept. of Pharmacology, KGMU, Lucknow, U.P.</li> </ul>
	6 CARON SE	<ul> <li>Dr. U S Chakradhara Rao, Dept. of Medical Oncology, JIPMER, Pondicherry</li> </ul>
	Day 2: 19-10-20	
TIME	SESSIONS	RESOURCE PERSONS
8:30-9:00 AM		Floor, Medical College Building, IGIMS)
9.00-9.30 AM	How to calculate $LD_{50}$	<b>Dr. Pramod Kumar Majhi</b> , Associate Prof., HOD, Dept. of Pharmacology, AIIMS, Patna
9:30 AM-12:30 PM	Demonstration of Experimental Set- Up for Bioassay & Calculation from Physical Graph	<b>Dr. Sukalyan Saha Roy</b> , Associate Prof., Dept. of Pharmacology, IGIMS, Patna <b>Dr. Nidhi Kumari</b> , Senior Resident &
(Participants will be		Dr. Rinky Thakur, DM Student,
divided into four groups, and each	Demonstration of Bioassay of	Dept. of Pharmacology, IGIMS, Patna Dr. Adil Ali Shakur, Assistant Prof.,
group will rotate to	Histamine by Three Point Assay Method	Dept. of Pharmacology, IGIMS, Patna &
one of the four	and Calculation of PD2 & PA2 using	Dr. Saajid Hameed, DM Student,
stations every 45 minutes)	Computer Assisted Learning (CAL)	Dr. Ravi Raushan, PG Student,
minucesj		Dent of Pharmacology IGIMS Patna
	Demonstration of effects of drugs on	Dept. of Pharmacology, IGIMS, Patna <b>Prof. (Dr.) Hitesh Mishra</b> , Prof.,
	HR & BP of Dog using Computer	<b>Prof. (Dr.) Hitesh Mishra</b> , Prof., Dept. of Pharmacology, IGIMS, Patna
		<b>Prof. (Dr.) Hitesh Mishra</b> , Prof., Dept. of Pharmacology, IGIMS, Patna <b>Dr. Raushan K. Ranjan</b> , Senior Resident,
	HR & BP of Dog using Computer	Prof. (Dr.) Hitesh Mishra, Prof., Dept. of Pharmacology, IGIMS, Patna Dr. Raushan K. Ranjan, Senior Resident, Dr. Noor Husain, DM Student &
	HR & BP of Dog using Computer Assisted Learning (CAL) Demonstration of Soxhlet and other	Prof. (Dr.) Hitesh Mishra, Prof., Dept. of Pharmacology, IGIMS, Patna Dr. Raushan K. Ranjan, Senior Resident, Dr. Noor Husain, DM Student & Dept. of Pharmacology, IGIMS, Patna Dr. Manish Kumar, Additional Prof.,
	HR & BP of Dog using Computer Assisted Learning (CAL)	<ul> <li>Prof. (Dr.) Hitesh Mishra, Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Raushan K. Ranjan, Senior Resident,</li> <li>Dr. Noor Husain, DM Student &amp;</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Manish Kumar, Additional Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna &amp;</li> </ul>
	HR & BP of Dog using Computer Assisted Learning (CAL) Demonstration of Soxhlet and other	<ul> <li>Prof. (Dr.) Hitesh Mishra, Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Raushan K. Ranjan, Senior Resident,</li> <li>Dr. Noor Husain, DM Student &amp;</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Manish Kumar, Additional Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna &amp;</li> <li>Dr. Keshav Kumar, DM Student,</li> </ul>
	HR & BP of Dog using Computer Assisted Learning (CAL) Demonstration of Soxhlet and other related apparatuses	<ul> <li>Prof. (Dr.) Hitesh Mishra, Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Raushan K. Ranjan, Senior Resident,</li> <li>Dr. Noor Husain, DM Student &amp;</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Manish Kumar, Additional Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna &amp;</li> <li>Dr. Keshav Kumar, DM Student,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> </ul>
12:30-01:00 PM	HR & BP of Dog using Computer Assisted Learning (CAL) Demonstration of Soxhlet and other related apparatuses Regulatory toxicities studies for IND applications	<ul> <li>Prof. (Dr.) Hitesh Mishra, Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Raushan K. Ranjan, Senior Resident,</li> <li>Dr. Noor Husain, DM Student &amp;</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Manish Kumar, Additional Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna &amp;</li> <li>Dr. Keshav Kumar, DM Student,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Prof. (Dr.) Bikash Medhi, Professor,</li> <li>Dept. of Pharmacology, PGIMER, Chandigarh</li> </ul>
01:00-02:00 PM	HR & BP of Dog using Computer Assisted Learning (CAL) Demonstration of Soxhlet and other related apparatuses Regulatory toxicities studies for IND applications Lunch (Dept. of Pharmacology, 3 <sup>rd</sup> Floo	<ul> <li>Prof. (Dr.) Hitesh Mishra, Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Raushan K. Ranjan, Senior Resident,</li> <li>Dr. Noor Husain, DM Student &amp;</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Manish Kumar, Additional Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna &amp;</li> <li>Dr. Keshav Kumar, DM Student,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Prof. (Dr.) Bikash Medhi, Professor,</li> <li>Dept. of Pharmacology, PGIMER, Chandigarh</li> <li>Dr. Medical College Building, IGIMS)</li> </ul>
	HR & BP of Dog using Computer Assisted Learning (CAL) Demonstration of Soxhlet and other related apparatuses Regulatory toxicities studies for IND applications Lunch (Dept. of Pharmacology, 3 <sup>rd</sup> Floo Poster Presentation (Dept. of Pharmaco	<ul> <li>Prof. (Dr.) Hitesh Mishra, Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Raushan K. Ranjan, Senior Resident,</li> <li>Dr. Noor Husain, DM Student &amp;</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Dr. Manish Kumar, Additional Prof.,</li> <li>Dept. of Pharmacology, IGIMS, Patna &amp;</li> <li>Dr. Keshav Kumar, DM Student,</li> <li>Dept. of Pharmacology, IGIMS, Patna</li> <li>Prof. (Dr.) Bikash Medhi, Professor,</li> <li>Dept. of Pharmacology, PGIMER, Chandigarh</li> </ul>