SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA (SNVPMV)

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Three Days Hands on Workshop on

LABORATORY ANIMAL CARE, ETHICS, & ALTERNATIVES (LACEA-2025) : A COMPREHENSIVE WORKSHOP

Delegate Registration fee: Rs. 750/-

QR Code for payment

In Association with:

CCSEA, Ministry of Fisheries, Animal Husbandry and Dairying, Govt. of India

Limited registration:
On the basis of first come first served

Registration deadline: 23rd June, 2025

24th June to 26th June 2025

Venue:

SNVPMV Campus
Vijayapuri Colony,
Tarnaka, Secunderabad,
Telangana, India, 500017

Registration Link/QR Code:

https://docs.google.com/forms/d/e/1FAIpQLSd0bTzzIR2rwueUpXc-ZUgJYzDWqj3b_FsAQZ0uKc9MmfZAnw/viewform?usp=header

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ACCREDITED BY NAAC WITH A+ GRADE - NBA ACCREDITED B. PHARMACY COURSE

Three Days Workshop on

LABORATORY ANIMAL CARE, ETHICS, & ALTERNATIVES (LACEA-2025) : A COMPREHENSIVE WORKSHOP

In association with:

Committee for the Control and Supervision of Experiments on Animals (CCSEA)
Ministry of Fisheries, Animal Husbandry and Dairying,
Govt. of India

Chief Guest
Dr. Suresh Pothani
Member of CCSEA, Vc Director,
NARFBR, Hyderabad

Guest of Honor
Dr. B. Dinesh Kumar
Expert Advisor – Scientific Evaluations
(Pharma Translational), Councilor - IUPHAR PNFS

Presided By
Dr. B. Prabha Shankar
Chairman-SNVPMV
CEO Leads Pharma Pvt Ltd

Workshop Coordinator
Dr. Venu Talla
Professor & Head -
Dept. of Pharmacology

Speakers

Dr. Suresh Pothani	Dr. Jayant P Hole	Dr. P Uday Kumar
Dr. B. Dinesh Kumar	Dr. Ravinder Naik. R	Dr. Jyoti Raja
Dr. M. Jerald Mahesh Kumar	Dr. Chandraiah Godugu	Dr. M. Kiran Kumar

Dr. B. Haarika
Vice Principal

Dr T. Mamatha
Principal

Dr. N. Srinivas
Director

Sri B. Hanumanth Rao
Hon. Secretary

Our sponsors: CCSEA, Govt of India | Bharath Biotech International Limited

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Comprehensive Report on

Three Days Hands-On Workshop on

Laboratory Animal Care, Ethics, & Alternatives (LACEA-2025)

Organized by: Department of Pharmacology, Sarojini Naidu Vanita Pharmacy Maha Vidyalaya (SNVPMV), Hyderabad

In Association with: Committee for Control and Supervision of Experiments on Animals (CCSEA), Ministry of Fisheries, Animal Husbandry, and Dairying, Government of India

and

Bharath Biotech International Ltd

Dates: 24–26 June 2025

Venue: Auditorium, SNVPMV Campus

Day 01:

Inauguration Ceremony – A Grand Commencement of a Purposeful Event

The inauguration ceremony of the highly anticipated event began promptly at **9:30 AM on 24th June 2025**, exuding a sense of formality and enthusiasm. The inaugural session was seamlessly orchestrated by **Ms. Nomitha Medha Byreddy** and **Ms. P. Soudhamini**, who served as the hosts and emcees for the event. Their eloquent delivery and graceful coordination ensured a smooth and engaging flow of the proceedings, captivating the attention of the audience from the very outset. The program commenced with the dignitaries being cordially invited to the stage in a carefully arranged sequence, reflecting the hierarchical and ceremonial importance of each role:

1. **Dr. Venu Talla**, Professor and Head of the Department of Pharmacology
2. **Dr. B. Haarika**, Vice Principal
3. **Dr. T. Mamatha**, Principal
4. **Dr. N. Srinivas**, Director
5. **Sri Chandrajeet Singh**, Joint Secretary of SNVPMV
6. **Mrs. Sandhya Depala**, Hon. Treasurer of SNVPMV
7. **Sri B. Hanumanth Rao**, Hon. Secretary of SNVPMV

Following the arrival of the dignitaries, the traditional **lamp-lighting ceremony** was conducted—a revered practice in Indian academic events symbolizing the **dispelling of ignorance and the illumination of wisdom and knowledge**. This sacred ritual signified the formal inauguration of the event and the hopeful start of a meaningful academic exchange.

Accompanying this moment was a **devotional song** presented by a group of talented students. Their harmonious rendition created a calm and spiritual atmosphere, fostering a sense of reverence and unity among the attendees.

Welcome Addresses – A Tapestry of Vision, Gratitude, and Ethical Advocacy

The ceremonial proceedings transitioned into the **welcome addresses**, during which various dignitaries shared their insights, aspirations, and acknowledgments:

- Sri B. Hanumanth Rao opened the series of addresses with a warm and inspiring welcome to all guests, faculty, participants, and organizers. He eloquently traced the institution's rich legacy in academic excellence and ethical research practices, especially in the realm of animal experimentation. Emphasizing the institution's commitment to humane and responsible research, he highlighted the importance of instilling these values in the scientific community for the benefit of future generations.
- Mrs. Depala Sandhya extended heartfelt thanks to the management team, dedicated faculty members, and the Committee for the Control and Supervision of Experiments on Animals (CCSEA) for their unwavering support in bringing the event to life. She commended the collective effort behind the meticulous planning and successful execution of the workshop, underscoring the role of collaboration in advancing ethical scientific practices.
- Dr. N. Srinivas delivered a compelling address emphasizing the urgent need for specialized training in laboratory animal care. He stressed that such education is crucial for researchers to uphold high ethical standards, minimize animal distress, and ensure the validity and reliability of experimental outcomes. His address drew attention to the link between ethics and scientific rigor, highlighting how well-trained researchers contribute meaningfully to public health and biomedical advancements.
- Dr. T. Mamatha spoke with deep appreciation for the institution's journey in fostering scientific innovation. She shed light on the key contributions made by SNVPMV to the field of science and technology, crediting support from Exhibition Society and other collaborators. Her remarks highlighted the importance of institutional partnerships in driving impactful research and facilitating knowledge-sharing events like the current workshop.
- Dr. B. Haarika presented an insightful overview of the workshop's goals and structure. She emphasized the necessity of practical, hands-on training in the humane treatment of laboratory animals, ensuring that participants gain proficiency in ethical experimentation. Her address elaborated on how the workshop would cover essential aspects such as regulatory compliance, animal welfare protocols, and research integrity, thereby equipping attendees with the tools to conduct responsible, compliant, and compassionate scientific research.

Vote of Thanks – A Grateful Conclusion

The inauguration culminated with a sincere and comprehensive vote of thanks delivered by Dr. Venu Talla, who expressed profound gratitude on behalf of the organizing committee. He extended special thanks to Chairman Dr. B. Prabha Shankar and all governing body members for their visionary leadership and encouragement. He also recognized the tireless efforts of the faculty, staff, and the enthusiastic participation of the attendees, without whom the event would not have reached such commendable standards. Dr. Talla's heartfelt appreciation served as a fitting close to the inaugural session, setting a tone of respect, responsibility, and resolve for the days ahead.

Academic Sessions

Lecture 1:

- **Topic:** Current Guidelines of CCSEA
- **Speaker:** Dr. Suresh Pothani, Member of CCSEA, In-Charge Director, National Animal Resource Facility for Biomedical Research (NARFBR), Hyderabad.
- **Introduced by:** Dr. Venu Talla
- Highlights: Dr. Suresh Pothani, a well-respected authority in the field of laboratory animal ethics and regulatory affairs, delivered a comprehensive and impactful session focused on the latest guidelines issued by the Committee for the Control and Supervision of Experiments on Animals (CCSEA), formerly known as CPCSEA. His session served as a vital cornerstone of the workshop, equipping participants with a thorough understanding of the regulatory framework governing animal experimentation in India.

  Dr. Pothani began by outlining the core objectives of CCSEA, emphasizing its mandate to ensure the humane treatment of animals used in scientific research and experimentation. He proceeded to explain, in detail, the mandatory processes for obtaining registration of animal housing facilities, a prerequisite for any institution intending to use animals for experimental purposes. He elaborated on the criteria, documentation, and timelines involved, providing practical guidance on preparing and submitting Form A for establishment registration and Form B for project approval.

A significant portion of his talk was devoted to the formation, roles, and responsibilities of Institutional Animal Ethics Committees (IAECs). He stressed the importance of independence, transparency, and multidisciplinary representation within IAECs to ensure objective ethical review. Dr. Pothani highlighted the procedural requirements for IAEC operations, including protocol evaluation, record-keeping, and post-approval monitoring.

Dr. Pothani further underscored the critical need for accurate and up-to-date records pertaining to animal health status, breeding practices, and experimental usage. He emphasized that such documentation not only fulfills compliance requirements but also serves as a benchmark for institutional credibility and scientific integrity.

Particular attention was given to humane animal handling procedures, with Dr. Pothani advocating for strict adherence to established welfare norms at every stage—from animal procurement and quarantine to experimentation and post-experiment care. He delineated recent updates to the CPCSEA guidelines, including enhanced protocols for quarantine, health monitoring, housing conditions, and the need for enrichment strategies to improve animal well-being.

A notable aspect of his presentation was the discussion of common compliance challenges and how to avoid them. Through real-life examples and case studies, he illustrated instances of both non-compliance and best practices, enabling participants to better anticipate and navigate potential regulatory hurdles. He emphasized the importance of regular IAEC meetings, comprehensive inspection readiness, and proactive communication with CCSEA officials as key components of sustained compliance.

Throughout his address, Dr. Pothani maintained a fine balance between regulatory rigor and ethical responsibility, leaving the audience with a nuanced and actionable understanding of how to integrate compliance with compassion in laboratory animal research. His session was not only informative but also empowering, offering attendees a clear roadmap to uphold the highest standards of ethical research and legal accountability.

The session concluded with an interactive Q&A where delegates inquired about recent amendments in CPCSEA guidelines, renewal processes, and standard operating procedures.

Lecture 2:

- **Topic:** Dynamic Changes in Regulatory Pharmacology to Facilitate Rational Use of Animals
- **Speaker:** Dr. B. Dinesh Kumar, Scientist G (Former), ICMR-NIN, Expert Advisor in Pharmacological Translational Research.
- **Introduced by:** Dr. M. Sreekanth, Associate Professor.
- **Highlights:** Dr. Dinesh Kumar, a prominent expert in regulatory pharmacology and translational research, delivered a compelling session that shed light on the paradigm shifts in regulatory frameworks surrounding the use of animals in pharmacological testing. His talk centered on the emerging emphasis on optimization and reduction of animal use in drug development and safety assessment, reflecting both scientific innovation and ethical evolution within the field.

  Beginning with a comparative analysis of Indian regulatory norms vis-à-vis global standards, Dr. Kumar highlighted the alignment and divergence between the Central Drugs Standard Control Organization (CDSCO) and international bodies such as the Organisation for Economic Co-operation and Development (OECD) and the International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use (ICH). He elaborated on how these international frameworks increasingly advocate for the 3Rs principle—Replacement, Reduction, and Refinement—as a foundational approach to animal experimentation.

  Delving into scientific advancements, Dr. Kumar showcased cutting-edge alternatives that promise to significantly reduce the dependency on animal models while maintaining, and even enhancing, the predictive power and reliability of preclinical assessments. He discussed innovations such as:

- Microdosing studies, which involve administering subtherapeutic doses of a drug to human volunteers under tightly controlled conditions. These studies allow early insight into pharmacokinetics without the need for full-scale animal testing.
- Organ-on-chip platforms, which simulate the physiological responses of human organs on a microscale, offering dynamic, real-time data on drug interactions and toxicity.
- Validated in vitro assays, which replicate key biological functions and are now widely accepted for initial toxicity screening and mechanism-of-action studies.

These non-animal methodologies, Dr. Kumar noted, not only align with ethical mandates but also offer increased translational value, improving the accuracy with which drug responses can be predicted in humans.

A particularly insightful part of his presentation involved the integration of toxicogenomics—the study of how genomes respond to toxic exposures—and the application of translational biomarkers in regulatory toxicology. These tools, he explained, enable researchers to identify early signs of toxicity or efficacy at the molecular level, often long before clinical symptoms arise, thereby reducing the need for large-scale animal studies and enhancing decision-making in drug development pipelines.

Dr. Kumar concluded his session by urging the research community to stay informed about ongoing regulatory changes, embrace technological and methodological innovations, and act as ethical stewards in the evolving landscape of biomedical science. He encouraged participants to advocate for modern, human-relevant models and to align their practices with internationally recognized best standards, thus contributing to a more responsible and scientifically robust research ecosystem.

His presentation left a lasting impression, inspiring attendees to rethink traditional paradigms and proactively adopt scientifically advanced, ethically sound alternatives in their research endeavors.

Lecture 3:

- **Topic:** Humane Endpoints in Animal Experimentation

- **Speaker:** Dr. M. Jerald Mahesh Kumar, Chief Scientist & Head, Laboratory Animal Facility, CCMB.
- **Introduced by:** Dr. K.R.V.S.Chaitanya, Associate Professor.
- **Highlights:** Dr. Mahesh Kumar, a seasoned advocate for animal welfare and ethical research practices, delivered a thought-provoking and deeply informative session on the critical subject of humane endpoints in laboratory animal research. His presentation focused on striking the delicate balance between scientific rigor and compassionate care, aiming to minimize animal suffering without compromising the integrity or validity of experimental data.

  Dr. Kumar began by defining humane endpoints as pre-established criteria that dictate when an animal should be removed from a study or when a study should be terminated early to prevent unnecessary pain, distress, or suffering. He emphasized that humane endpoints are a proactive ethical measure rooted in the principles of the 3Rs—particularly Refinement, and are central to both regulatory compliance and responsible scientific practice.

  He elaborated on how to identify and apply humane endpoints, stressing the importance of using objective clinical indicators such as:

  - Significant or rapid weight loss
  - Changes in grooming, posture, or activity levels
  - Uncharacteristic aggression or withdrawal
  - Respiratory distress, dehydration, or hypothermia
  - Visible signs of pain, infection, or neurological issues

  These indicators, he explained, must be monitored consistently to make informed, timely decisions about an animal's continued participation in a study. Dr. Kumar introduced practical tools and methodologies to aid researchers in this process, including:

  - Distress scoring systems that quantify levels of pain or discomfort based on observable criteria.

- Standardized observation schedules, outlining recommended frequencies for health checks and behavioral assessments.
- Guidelines for intervention thresholds, helping researchers determine when to provide supportive care, modify the study protocol, or humanely euthanize an animal.

Dr. Kumar highlighted the critical role of training research personnel in recognizing subtle and species-specific signs of distress. He emphasized that even minor behavioral changes can be early indicators of discomfort, and the ability to detect these cues can significantly enhance both animal welfare and the quality of experimental outcomes. He also encouraged the routine calibration of staff judgement through team discussions, mock scoring exercises, and alignment with veterinary input.

Importantly, he reinforced that the implementation of humane endpoints is not merely a regulatory checkbox, but rather a moral and professional obligation. He argued persuasively that such practices elevate the scientific process, demonstrating respect for sentient life while ensuring that the data generated is ethical, credible, and socially accountable.

In conclusion, Dr. Kumar's session served as a powerful reminder that thoughtful planning and compassionate intervention are both essential components of modern research. His guidance equipped attendees with the tools and mindset necessary to embed humane endpoints into study design, fostering a culture of ethical responsibility and methodological excellence.

Speaker Felicitations:

Post-lectures, all three speakers were felicitated by dignitaries on the dais with momentos, recognizing their invaluable contributions.

Combating Typhoid through Innovation and Awareness – Dr. T. Venu's Presentation on Bharat Biotech's Vaccination Strategy

As part of the collaborative initiative between Bharat Biotech International Ltd. and the LACEA 2025 workshop, Dr. T. Venu delivered a compelling and insightful presentation focused on the urgent public health challenge posed by typhoid fever, particularly in low- and middle-income countries. His session underscored the critical role of vaccination in disease prevention and the far-reaching impact of effective immunization strategies on community health.

Dr. Venu began by outlining the epidemiological burden of typhoid, emphasizing its high morbidity and mortality rates, especially among children in regions with limited access to clean water, sanitation, and healthcare infrastructure. He presented striking global and regional statistics, illustrating the disproportionate impact of typhoid on underserved populations. His message was clear: timely and widespread vaccination is one of the most potent tools available to curb the disease and save countless lives.

A key highlight of his presentation was the detailed introduction to Bharat Biotech's typhoid conjugate vaccine (TCV), a scientifically advanced and WHO-prequalified vaccine developed to address the limitations of traditional typhoid vaccines. Dr. Venu demonstrated the vaccine's high efficacy, long-lasting immunity, and suitability for use in infants and young children, making it a game-changer in typhoid prevention.

Using engaging video clips and a well-structured PowerPoint presentation, he visually illustrated the geographical prevalence of typhoid, the economic burden of the disease, and the measurable benefits of vaccination programs. The multimedia elements helped translate complex scientific data into accessible insights for the diverse audience, including academicians, researchers, and public health professionals.

Adding a powerful outreach dimension to the session, Dr. Venu showcased promotional material featuring Mr. Rahul Dravid, the esteemed former Indian cricketer and brand ambassador for Bharat Biotech's typhoid vaccine. He explained how the involvement of such a credible and respected public figure enhances the visibility and credibility of public health

campaigns. Mr. Dravid's endorsement, Dr. Venu noted, serves as a catalyst for public trust, helping to overcome vaccine hesitancy and mobilize community participation in immunization drives.

Dr. Venu also discussed Bharat Biotech's broader commitment to public engagement and awareness-building, including targeted media campaigns, educational outreach in schools and communities, and collaboration with healthcare providers to ensure vaccine accessibility in both urban and rural settings.

In conclusion, Dr. Venu's session offered a holistic perspective on typhoid control, combining scientific rigor with strategic communication and public outreach. His address not only showcased the technical excellence of Bharat Biotech's vaccine but also highlighted the importance of multi-stakeholder collaboration, community education, and celebrity advocacy in achieving widespread vaccine acceptance and ultimately, disease eradication.

Hands-On Session:

The Form B Filling Workshop, an essential segment of the LACEA 2025 training program, was expertly conducted by Dr. Venu Talla, Professor and Head of the Department of Pharmacology. This session aimed to enhance participants' understanding of the ethical and procedural requirements associated with submitting Form B—the official application for approval of animal experiments as mandated by the Committee for the Control and Supervision of Experiments on Animals (CCSEA).

Dr. Talla began the session by distributing blank Form B templates to all participants, setting the stage for a step-by-step walkthrough of the form's contents. With clarity and precision, he explained each section in detail, from project title and objectives to animal species, number, procedures involved, and justification for animal use. He placed particular emphasis on the scientific rationale behind choosing specific animal models, appropriate dose calculations, experimental endpoints, and pain mitigation strategies, which are all critical to CCSEA approval.

Throughout the session, Dr. Talla also identified common mistakes researchers tend to make—such as vague descriptions, incomplete sections, or inconsistent data—and shared best practices for avoiding these pitfalls. He reinforced the necessity of providing honest, transparent, and comprehensive information, reminding participants that ethical review depends heavily on the accuracy and completeness of Form B submissions.

By the end of the workshop, participants had a clearer understanding of regulatory expectations, and many expressed increased confidence in preparing their own project submissions for ethical approval. Dr. Talla's meticulous guidance, combined with real-world examples and open Q&A, made the session highly beneficial for both novice and experienced researchers.

Demonstration of Bleeding Techniques – A Hands-On Training Module for Humane Animal Procedures

The hands-on training session on blood collection techniques, a pivotal component of the workshop, provided participants with direct experience in humane and scientifically accurate methods of blood sampling in laboratory animals. The session was designed to balance technical proficiency with animal welfare principles, in line with CCSEA's standards.

The practical demonstrations included:

- Retro-orbital puncture in rats, performed under appropriate anesthesia to minimize discomfort.
- Marginal ear vein puncture in rabbits, executed with the use of restraining devices to ensure animal stability and procedural safety.

These demonstrations were conducted using a video tracking system, which projected live, close-up visuals onto a screen. This innovative approach allowed all delegates—regardless of their physical proximity—to observe the procedures with clarity and precision, enhancing their learning experience.

The expert demonstration team included:

- Dr. M. Sreekanth
- Mr. D. Suresh
- Mrs. P. Rajyalakshmi Devi
- Mrs. A. Shailaja
- Mrs. P. Uma

These faculty members provided clear, step-by-step instructions and practical tips on needle placement, restraint techniques, volume collection limits, and post-procedural care, ensuring participants understood both the technical and ethical aspects of the procedures.

In an interactive component of the session, selected delegates were given the opportunity to practice the techniques themselves under close faculty supervision:

- Ms. Sowmya Sri from Veterinary College, Karnataka, successfully performed retro-orbital puncture.
- Dr. Sourab L, also from Veterinary College, Karnataka, and Dr. Swetha from ESIC performed marginal ear vein punctures in rabbits.
- Mr. Ajay from Scient College of Pharmacy, Hyderabad, practiced oral gavage in rats, an essential technique for drug administration in preclinical studies.

This hands-on training enabled participants to not only witness expert techniques but also develop their own proficiency through practical application.

Following the main demonstrations, the workshop transitioned to an immersive training segment, where all participants were divided into smaller groups and practiced animal handling and procedural techniques across four dedicated laboratories. These sessions were closely supervised by experienced faculty, ensuring proper technique, safety, and compliance with animal welfare guidelines.This segment was particularly valuable in bridging the gap between theoretical learning and practical application, equipping researchers with the competence and confidence required to perform animal procedures ethically and effectively.

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Dr. B. Dinesh kumar being welcomed to LACEA 2025 day one on 24.06.25 at SNVPMV

Delegates listening to technical lectures of LACEA 2025 day one on 24.06.25 at SNVPMV

Dr. B. Dinesh Kumar delivering his lecture on day one of LACEA 2025 on 24.06.25 at SNVPMV

Dr. B. Dinesh Kumar being felicitated on day one of LACEA 2025 on 24.06.25 at SNVPMV

Dr. Suresh Pothani being welcomed to LACEA 2025 day one on 24.06.25 at SNVPMV

Delegates listening to technical lectures of LACEA 2025 day one on 24.06.25 at SNVPMV

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Dr. Jerald Mahesh Kumar addressing the delegates of LACEA 2025 on 24.06.25 at SNVPMV

Dr. Jerald Mahesh Kumar being felicitated on day one of LACEA 2025 on 24.06.25 at SNVPMV

Dr. Jerald Mahesh Kumar delivering his lecture on day one of LACEA 2025 on 24.06.25 at SNVPMV

Form B Filling discussion by Dr .T. Venu on Day one of LACEA 2025 on 24.06.25 at SNVPMV

Marginal Vein technique in Rabbit by Dr. M. Sreekanth on day one of LACEA 2025 on 24.06.25 at SNVPMV

Rat handling by Dr. T. Venu on day one of LACEA 2025 at SNVPMV

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Retro Orbital Puncture technique in Rats by Mr. D. Suresh, Mrs. Rajyalaksmi and Mrs. A. Shailaja on day one of LACEA 2025 on 24.06.25 at SNVPMV





Demonstration of Animal handling Techniques on day one of LACEA 2025 on 24.06.25 at SNVPMV

Day 2

Academic Sessions

The second day of the workshop began with the welcoming of dignitaries, including Director Dr. N. Srinivas, Principal Dr. T. Mamatha, and Vice Principal Dr. B. Haarika. The morning academic sessions included three key lectures, each introduced by faculty members:

Lecture 4:

- **Topic:** Alternatives and the 3Rs in Animal Experimentation
- **Speaker:** Dr. Jayant P. Hole, Scientist D & Veterinarian In-Charge, Animal House Facility, National Institute of Animal Biotechnology (NIAB), Hyderabad.
- **Introduction by:** Mrs. A. Shailaja, Assistant Professor
- **Highlights:** Dr. Jayant P. Hole, a distinguished academic and ethical science advocate, delivered a comprehensive and thought-provoking presentation on the 3Rs—Replacement, Reduction, and Refinement—widely regarded as the ethical foundation of humane animal research. His session served as both a scientific exploration and a moral call to action, urging researchers to uphold the highest standards of care and compassion in their experimental practices.

  Dr. Hole began by tracing the historical context and evolution of the 3Rs, first articulated by Russell and Burch in 1959, emphasizing how they have become cornerstones of responsible scientific inquiry and are embedded in regulatory frameworks globally. He underscored that the 3Rs are not merely philosophical ideals, but practical guidelines that can be implemented across all stages of animal-based research to ensure both ethical integrity and scientific rigor.

  Replacement – Pursuing Non-Animal Alternatives

  Delving into the first R—Replacement—Dr. Hole outlined a spectrum of cutting-edge alternatives that can substitute the use of live animals in various experimental contexts. These include:

- Advanced in vitro systems, such as cell cultures, 3D tissue models, and human-derived organoids that mimic organ-level functions.
- Computer simulations and computational toxicology tools, which model complex biological interactions and predict drug responses with increasing accuracy.
- Organ-on-chip technologies, which replicate dynamic physiological environments and are gaining traction as high-fidelity models for pharmacological and toxicological assessments.

Dr. Hole emphasized that embracing Replacement does not diminish the scientific process; rather, it enhances it by making it more predictive, cost-effective, and human-relevant.

Reduction – Maximizing Data, Minimizing Use

Next, he explored Reduction, advocating for the optimization of experimental design to limit the number of animals used without compromising data quality or statistical power. Key strategies included:

- Robust statistical planning and power analysis, ensuring that experiments are neither underpowered nor wastefully overpopulated.
- Sharing of control groups across compatible studies, especially in institutional research environments.
- Meta-analysis and data re-use, where existing datasets are utilized to avoid redundant animal testing.

Dr. Hole emphasized that Reduction reflects not just ethical responsibility, but also scientific efficiency, helping researchers allocate resources more judiciously.

Refinement – Enhancing Animal Welfare

In the final segment of his presentation, Dr. Hole addressed Refinement, the continuous improvement of procedures to minimize animal pain, distress, and suffering. He highlighted practical strategies, including:

- Refined anesthesia and analgesia protocols to ensure minimal discomfort during and after procedures.
- Environmental enrichment measures, such as social housing, nesting materials, and sensory stimulation, which contribute to psychological well-being.
- Establishment of humane endpoints, enabling early intervention to prevent undue distress.

Dr. Hole emphasized that such refinements not only improve animal welfare but also lead to more reliable and reproducible scientific outcomes, as stress can significantly impact physiological and behavioral responses in animal models.

Regulatory Acceptance and Advocacy

Importantly, Dr. Hole discussed the growing global regulatory acceptance of validated alternative methods, citing organizations like the OECD and ECVAM (European Centre for the Validation of Alternative Methods) that actively support the integration of non-animal methods into official guidelines. He presented successful case studies, such as the use of in vitro eye and skin irritation assays, which have entirely replaced traditional animal tests in several jurisdictions.

Concluding his session, Dr. Hole made a passionate appeal to researchers: to go beyond compliance and become champions of ethical science. He urged the scientific community to proactively adopt alternatives, stay informed about evolving best practices, and mentor the next generation of researchers in a culture of compassionate, responsible inquiry.

His talk left the audience with a renewed sense of moral responsibility and scientific possibility, reinforcing the idea that ethical progress and scientific advancement must go hand in hand.

Lecture 5:

- **Topic:** IAEC Functioning, Protocol Review, and Various Forms Used in Registered Animal House Facilities
- **Speaker:** Dr. Ravinder Naik R., Senior Technical Officer, NARFBR, Hyderabad.

- **Introduction by:** Mrs. P. Uma, Assistant Professor
- **Highlights:** Dr. Ravinder Naik, an esteemed expert in research ethics and animal welfare regulations, delivered an informative and structured session on the pivotal role of Institutional Animal Ethics Committees (IAECs) in overseeing and safeguarding the ethical conduct of animal research. His presentation served as a critical guide for institutions, researchers, and administrators aiming to ensure regulatory compliance, procedural transparency, and scientific integrity.

  Dr. Naik began by outlining the structural composition of IAECs, explaining that a well-constituted committee typically includes:

  - A scientific member from within the institution
  - A non-scientific socially aware member
  - A veterinarian with experience in laboratory animal care
  - A representative or nominee of the CPCSEA
  - Additional faculty members with relevant research experience

  This diverse composition ensures objectivity, inclusiveness, and accountability in evaluating protocols involving animal experimentation.

  He emphasized that the primary role of the IAEC is to review and approve all research proposals involving the use of animals, ensuring they are scientifically justified, methodologically sound, and ethically compliant with the guidelines issued by the Committee for the Control and Supervision of Experiments on Animals (CPCSEA).

  Dr. Naik provided a step-by-step breakdown of IAEC responsibilities, which include:

  - Thorough protocol review for scientific necessity, humane endpoints, anesthesia and analgesia plans, and number/species justification
  - Ensuring proper documentation, including Form A (animal house registration), Form B (experimental project proposal), and death reports
  - Monitoring ongoing experiments, conducting facility inspections, and enforcing corrective measures when necessary

He elaborated on meeting protocols, explaining the procedural requirements such as:

- Meeting frequency and planning (minimum of four meetings per year or as needed)
- Quorum requirements (presence of at least five members, including the CPCSEA nominee and a non-scientific member, for decisions to be valid)
- Timelines for review and response, ensuring researchers receive approvals or queries within a reasonable period

Dr. Naik further stressed the importance of maintaining clear, comprehensive, and secure documentation, including:

- Minutes of meetings, detailing discussions, approvals, dissent, or modifications requested
- Records of protocol amendments, with specific justifications and follow-up approvals
- Logs of inspections, training sessions, and animal facility observations, which are critical during CPCSEA audits or regulatory inspections

He also addressed common compliance gaps observed during inspections—such as incomplete records, lapses in form submissions, or inadequate follow-up on approved protocols—and offered practical solutions to rectify them.

Dr. Naik concluded his session with a strong call to action: he encouraged institutions to foster a culture of transparency, consistency, and ethical integrity within IAEC operations. He reiterated that the IAEC is not merely an administrative requirement but a core ethical body that protects animal welfare, supports scientific excellence, and reflects the institution's commitment to responsible research.

His comprehensive overview provided participants with clarity on regulatory responsibilities, enhanced their understanding of best practices in IAEC governance, and reinforced the vital role that institutional ethics committees play in promoting humane and compliant animal experimentation.

Lecture 6:

- **Topic:** Novel Animal Models in Pharmacology and Toxicology
- **Speaker:** Dr. Chandraiah Godugu, Assistant Professor & Head, Department of Biological Sciences, NIPER Hyderabad.
- **Introduction by:** Mrs. P. Rajyalakshmi Devi, Assistant Professor
- **Highlights:** Dr. Chandraiah Godugu, a renowned pharmacologist and translational researcher, delivered an engaging and forward-looking presentation on the latest advancements in animal models used in pharmacology and toxicology research. His session was particularly valuable for early-career scientists and established researchers seeking to enhance the translational impact of their experimental work.

  Dr. Godugu began by introducing genetically modified models, such as transgenic and knockout mice, which allow for disease-specific studies by enabling the targeted expression or deletion of genes. These models are invaluable for exploring complex conditions such as cancer, diabetes, neurodegenerative diseases, and autoimmune disorders, offering insight into the underlying molecular mechanisms of disease progression and drug response.

  He further elaborated on the use of xenograft models, particularly in oncology research, where human tumor tissues or cells are implanted into immunocompromised rodents. This approach allows scientists to closely mimic human tumor biology, evaluate novel anti-cancer therapies, and study tumor growth kinetics and metastasis.

  Additionally, Dr. Godugu presented an overview of rodent models used to study metabolic disorders (e.g., obesity, insulin resistance, Type 2 diabetes) and neurodegenerative conditions (e.g., Alzheimer's, Parkinson's), explaining how these models replicate critical pathological features observed in human patients. He emphasized that, when chosen judiciously, these animal models significantly enhance the predictive validity of preclinical studies.

  Crucially, Dr. Godugu stressed the importance of strategic model selection—aligning the choice of animal model with specific research hypotheses and endpoints—to optimize

resource use, minimize animal suffering, and improve data relevance. He also highlighted how appropriate model selection contributes to meeting ethical guidelines and fosters scientific excellence.

Speaker Felicitations

Following the scientific sessions, a felicitation ceremony was held to honor the contributions of the day's distinguished speakers. Dignitaries present on the dais presented mementos as a token of appreciation to Dr. Chandraiah Godugu, Dr. Jayant P. Hole, and Dr. Ravinder Naik. The gesture recognized their invaluable insights, commitment to ethical research, and role in advancing scientific education through the LACEA 2025 platform.

Hands-On Training Modules – Strengthening Skills Through Practical Exposure

A series of interactive hands-on training sessions followed, designed to bridge the gap between theoretical knowledge and technical proficiency in experimental pharmacology. Participants were divided into small groups and rotated systematically through multiple stations, receiving personalized guidance and practical exposure under the supervision of experienced faculty.

1. Effect of Drugs on Spatial Learning Using Video Tracking System

Led by Dr. K.R.V.S. Chaitanya and Mrs. P. Rajyalakshmi Devi, this session demonstrated how maze-based behavioral tests (e.g., Morris water maze or Y-maze) are used to assess spatial learning and memory in rodents. Using advanced video tracking software, trainers illustrated how to record, quantify, and interpret movement patterns and learning curves, helping participants understand the neurobehavioral effects of pharmacological interventions.

2. Anti-inflammatory Activity Using Digital Plethysmometer

Mrs. A. Shailaja and Mr. D. Suresh conducted a hands-on module showcasing the use of the digital plethysmometer to measure paw edema in rodent models—an established method to evaluate the anti-inflammatory potential of test compounds. The session

included induction of inflammation, accurate volume measurement, and calculation of percentage inhibition, providing a comprehensive overview of acute inflammation studies.

3. Screening of Drugs on Motor Coordination Using Digital Actimeter

In this station, Mrs. P. Uma, Mrs. J. Sarika, and Mrs. Ritu Jain guided participants in the use of the digital actimeter, a key tool for evaluating motor activity, sedation, or stimulation following drug administration. The trainers explained instrument calibration, handling protocols, and the interpretation of locomotor activity data, helping participants understand how to correlate movement metrics with central nervous system effects.

4. Tissue Histochemistry and Cryostat-based Tissue Slicing

This intricate session was led by Dr. T. Venu and Dr. M. Sreekanth, focusing on essential techniques in tissue processing and sectioning. The demonstration included:

- Fixation and embedding of tissue samples
- Use of a cryostat for precise sectioning
- Techniques for obtaining uniform, artifact-free slices suitable for histochemical staining

Participants observed and practiced on actual samples, learning how to prepare tissue for microscopic analysis, a critical step in pathology and toxicology research.

A Practical Learning Experience

Throughout the afternoon, delegates rotated through each of the four stations in small, focused groups, enabling individual attention, active participation, and real-time feedback. The sessions emphasized correct technique, safety, ethical handling, and data analysis, ensuring a well-rounded learning experience. By the end of the training, participants had gained hands-on experience in core experimental pharmacology methods, reinforced their understanding of animal behavior assessment and tissue analysis, and developed skills necessary to conduct ethical and scientifically sound research

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Dr. Jayant P Hole delivering his lecture on day two of LACEA 2025 on 25.06.25 at SNVPMV

Dr. Jayant P Hole being felicitated on day two of LACEA 2025 on 25.06.25 at SNVPMV

Dr. Chandraiah Godugu being welcomed to LACEA 2025 day two on 25.06.25 at SNVPMV

Dr. Chandraiah Godugu delivering his lecture on day two of LACEA 2025 on 25.06.25 at SNVPMV

Dr. Chandraiah Godugu being felicitated on day two of LACEA 2025 on 25.06.25 at SNVPMV

Dr. Ravindar Naik being welcomed to LACEA 2025 day two on 25.06.25 at SNVPMV

Dr. Ravindar Naik delivering his lecture on day two of LACEA 2025 on 25.06.25 at SNVPMV

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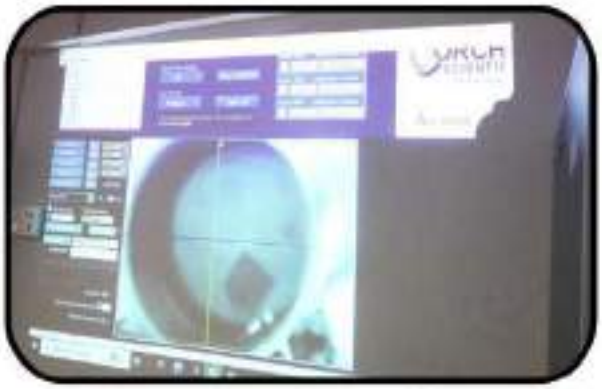
Hands on experience on Digital Actimeter on day two of LACEA 2025 on 25.06.25 at SNVPMV

Hands on experience on Digital Plethysmometer on day two of LACEA 2025 on 25.06.25 at SNVPMV

Hands on experience on Cryostat on day two of LACEA 2025 on 25.06.25 at SNVPMV



Hands on experience on Video tracking system assisted Morris Water Maze on day two of LACEA 2025 on 25.06.25 at SNVPMV

Hands on experience on Digital Plethysmometer on day two of LACEA 2025 on 25.06.25 at SNVPMV

Day 3

Academic Sessions

Final Day of the Workshop began with a warm welcome to Director Dr. N. Srinivas, Principal Dr. T. Mamatha, and Workshop Coordinator Dr. Venu Talla, highlighting the importance of the event. The day featured three insightful lectures introduced by faculty members, providing participants with essential knowledge on advanced concepts and ethical practices in laboratory animal research. The sessions encouraged discussion and ensured delegates were well-prepared to apply these principles in their future work.

Lecture 7:

- **Topic:** Breeding Practices in Rodents
- **Speaker:** Dr. Jyoti Kaja, MVSc in Veterinary Pharmacology & Toxicology, Deputy Test Facility Management, Vivo Bio Tech Limited, Hyderabad.
- **Introduction by:** Mr. D. Suresh, Assistant Professor.
- **Highlights:** Dr. Jyoti Kaja, an expert in laboratory animal science and vivarium management, delivered a highly practical and informative session on the effective management of laboratory rodent colonies—a cornerstone for ensuring reliable, reproducible, and ethical animal research. Her session was geared toward equipping researchers, animal caretakers, and facility managers with actionable strategies for maintaining healthy, genetically stable rodent populations.

  Dr. Kaja began by outlining the fundamental goals of colony management: ensuring genetic integrity, maintaining animal welfare, and supporting the research needs of the institution. She provided a clear overview of breeding systems commonly used in laboratory settings, including:

  - Monogamous mating (one male with one female)
  - Harem breeding (one male with multiple females)
  - Pair and trio systems, with guidance on when and how to use each approach based on space, strain characteristics, and reproductive goals.

She emphasized the importance of timely weaning—typically at 21 days post-partum—to prevent overcrowding, sibling mating, and maternal exhaustion. Dr. Kaja also discussed early sex identification techniques and appropriate housing configurations to support both behavioral health and breeding efficiency.

A key focus of the session was on maintaining genetic integrity over time, particularly when working with inbred or genetically modified strains. Dr. Kaja warned against the risks of genetic drift, inbreeding depression, and spontaneous mutations, which can undermine data quality and reproducibility. She recommended practices such as:

- Rotational breeding strategies
- Introduction of new breeder stock periodically
- Cryopreservation and rederivation for valuable genetic lines

To ensure sound breeding practices, Dr. Kaja stressed the critical importance of detailed and accurate record-keeping, including logs for:

- Mating dates and pairing history
- Litter size, survival rate, and weaning success
- Health observations and behavioral abnormalities
- Breeding performance metrics (e.g., inter-litter intervals, age of first litter)

She also presented methods for animal identification, such as ear notching, tattooing, and microchipping, highlighting their advantages and considerations for animal comfort and long-term tracking.

In addressing common breeding challenges, Dr. Kaja offered solutions to issues such as infertility, poor maternal care, neonatal mortality, and inbreeding depression. Her recommendations were grounded in real-world scenarios and tailored to meet regulatory and welfare expectations.

Beyond genetics and reproduction, she discussed environmental, nutritional, and health management considerations that are essential for successful colony maintenance. These included:

- Temperature and humidity control
- Lighting cycles to support reproductive rhythms
- Balanced, species-appropriate diets
- Routine health surveillance and veterinary oversight

Dr. Kaja concluded by reinforcing that effective colony management is not merely a logistical task, but a critical scientific responsibility. Maintaining a healthy and genetically sound rodent colony ensures ethical animal use, supports regulatory compliance, and most importantly, contributes to robust and reproducible research outcomes.

Her session offered an essential blend of technical instruction and ethical guidance, making it especially valuable for anyone involved in laboratory animal care, facility oversight, or preclinical research design.

Lecture 8:

- **Topic:** Good Laboratory Practices in Animal House Facilities
- **Speaker:** Dr. P. Uday Kumar, Transcend Toxicology & Risk Assessment Consultant Services LLP, Former Director Grade Scientist, ICMR-NIN.
- **Introduction by:** Assistant Professor.
- **Highlights:** Dr. Uday Kumar delivered a thorough and insightful presentation on the principles and practical implementation of Good Laboratory Practices (GLP), emphasizing their crucial role in maintaining data integrity, animal welfare, and regulatory compliance in preclinical research.

Opening his session with a strong message on the foundational importance of GLP, Dr. Kumar explained that GLP is not merely a regulatory formality but a systematic quality assurance framework designed to ensure that scientific data is credible, reproducible, and ethically obtained. He outlined the core pillars of GLP, each of which plays a vital role in

maintaining the integrity of laboratory-based studies, particularly those involving animal models.

Key GLP Elements Discussed:

1. Standard Operating Procedures (SOPs): Dr. Kumar emphasized the need for well-documented, up-to-date SOPs that cover all laboratory procedures, including animal handling, dosing, sample collection, equipment use, and emergency protocols. He stressed that adherence to SOPs reduces variability, enhances consistency, and serves as the first line of defense against protocol deviations.
2. Personnel Training and Competency: He highlighted the importance of comprehensive training programs for all laboratory and animal facility staff. Continuous education ensures that team members are fully aware of ethical responsibilities, procedural accuracy, and compliance standards. Dr. Kumar recommended maintaining training records and periodic assessments as part of GLP documentation.
3. Data Traceability and Audit Trails: One of the cornerstones of GLP, according to Dr. Kumar, is the ability to trace data back to its source. This includes maintaining original raw data, ensuring clarity in handwritten records, and implementing audit trails in electronic systems. He explained how such practices protect against data manipulation and enhance transparency and accountability.
4. Equipment Calibration and Validation: Dr. Kumar underscored the critical need for regular calibration and maintenance of all laboratory instruments, from analytical balances to digital actimeters and cryostats. Proper equipment management ensures accuracy in measurements and is a frequent focus of regulatory inspections.
5. Facility Maintenance and Environmental Monitoring: He stressed that a well-maintained, clean, and monitored facility environment—including animal housing areas—is essential for both animal welfare and data validity. He covered the importance of pest control, HVAC monitoring, lighting schedules, and cleanliness protocols.

GLP Documentation and Compliance:

Dr. Kumar elaborated on the documentation systems required under GLP, including:

- Study plans and protocols
- Raw data sheets and lab notebooks
- QA/QC reports
- Final study reports
- Archive management of records and specimens

He also discussed the procedures for internal and external audits, the significance of audit readiness, and the role of quality assurance (QA) units in identifying and rectifying non-compliance before regulatory review.

Importantly, Dr. Kumar contextualized GLP within animal research ethics, noting that ethical treatment of animals—including proper housing, humane endpoints, and skilled handling—is both a moral imperative and a regulatory expectation under GLP frameworks. Facilities that adhere to GLP are more likely to gain regulatory approvals, secure international collaborations, and establish reputational credibility.

Dr. Kumar concluded by encouraging institutions to internalize GLP as a culture of discipline and integrity, rather than viewing it as a regulatory burden. By fostering a systematic and ethical research environment, he affirmed, GLP enhances scientific reliability, protects animal welfare, and aligns research output with global standards.

His session provided delegates with practical tools and a philosophical foundation for strengthening GLP compliance in animal facilities and research laboratories, contributing to the overall quality and credibility of biomedical research.

Lecture 9:

- **Topic:** Common Health Issues in Laboratory Animals in India
- **Speaker:** Dr. M. Kiran Kumar, Veterinary Physician, Government Animal Husbandry Hospital, Saroornagar, Hyderabad.

- **Introduction by:** Mrs. Ritu Jain.
- **Highlights:** Dr. M. Kiran Kumar, a seasoned laboratory animal health expert, delivered a comprehensive and clinically relevant presentation on the frequent health challenges faced by laboratory rodents and rabbits, offering invaluable guidance on maintaining a disease-free animal facility. His session emphasized both diagnostic acumen and preventive vigilance, essential for upholding animal welfare and research integrity.

Dr. Kumar systematically categorized health concerns into infectious diseases, nutritional deficiencies, and husbandry-related disorders, offering practical insights for identification, management, and prevention.

1. Infectious Diseases – Bacterial, Viral, and Parasitic Origins

Dr. Kumar began by discussing common bacterial infections, such as *Pasteurella multocida* in rabbits and *Mycoplasma pulmonis* in rats and mice, which can lead to respiratory illnesses, abscesses, and reproductive issues. He highlighted key clinical signs—like nasal discharge, dyspnea, head tilts, and reproductive failures—and stressed the importance of early detection through observation and microbiological diagnostics.

He then moved to viral diseases, including:

- *Sendai virus* and *Mouse Hepatitis Virus (MHV)* in mice
- *Rat Coronavirus (RCV)* and *Sialodacryoadenitis virus (SDAV)* in rats

These were presented with their clinical presentations, transmission modes, and diagnostic protocols such as serology and PCR. Dr. Kumar emphasized isolation procedures and regular health surveillance to curb outbreaks.

For parasitic infections, he described both external parasites (like *mites* and *lice*) and internal parasites (such as *pinworms* and *protozoa*), outlining symptoms, appropriate antiparasitic treatments, and routine screening practices.

2. Nutritional Deficiencies and Husbandry-Related Issues

Dr. Kumar pointed out that imbalanced diets can result in vitamin and mineral deficiencies, impacting growth, reproduction, bone health, and immune function. He provided examples like:

- Vitamin A deficiency leading to ocular lesions
- Calcium/phosphorus imbalances causing skeletal deformities or reproductive issues

He also detailed husbandry-related conditions, such as:

- Pododermatitis due to rough cage flooring
- Malocclusion in rabbits from improper diet or lack of gnawing material
- Alopecia and dermatitis from poor bedding or social stress

These conditions, he noted, are often preventable through proper facility design, environmental enrichment, and daily health monitoring.

3. Quarantine and Biosecurity Protocols

A cornerstone of the session was the discussion on quarantine protocols for incoming animals. Dr. Kumar laid out best practices for screening new animals, isolating them for observation, and performing health clearance before integration into existing colonies.

He outlined a multi-layered biosecurity approach, including:

- Pest control
- Restricted access to animal rooms
- Use of personal protective equipment (PPE)
- Footbaths and disinfection routines
- Regular cleaning and sanitation schedules

These measures, he stressed, are critical not only to prevent disease outbreaks but also to protect laboratory personnel.

4. Zoonotic Risks and Human Safety

Dr. Kumar concluded by highlighting the zoonotic potential of certain pathogens, reminding researchers and technicians of the occupational health risks involved in laboratory animal work. He discussed the importance of:

- Proper PPE usage
- Vaccinations where applicable
- Prompt reporting of animal bites or scratches
- Routine health screening for staff

He reinforced that a well-managed animal health program safeguards both animal welfare and human safety, ensuring that experimental results are not compromised by undetected illness or stress in research subjects.

Dr. Kumar's session offered attendees a practical, well-rounded understanding of disease prevention and health management in laboratory animal facilities. His emphasis on early detection, rigorous hygiene, and proactive biosecurity equipped participants with the tools necessary to maintain a safe, productive, and ethically sound research environment.

Speaker Felicitations:

Post-lectures, all three speakers were felicitated by dignitaries on the dais with momentos, recognizing their invaluable contributions.

Hands on training:

The afternoon session of the LACEA 2025 workshop continued with an engaging series of hands-on training modules designed to enhance participants' practical competencies in both in silico pharmacological modeling and classical ex vivo experimental methods. These sessions underscored the workshop's commitment to combining ethical principles, technological innovation, and scientific rigor in pharmacology training.

1. In Silico Pharmacological Experimentation Using ExPharma Series Software

Led by Mrs. A. Shailaja and Mrs. P. Uma, this session introduced participants to ExPharma Series Software, a sophisticated simulation platform used to model pharmacodynamic and pharmacokinetic (PD/PK) interactions. The trainers demonstrated how virtual experiments can simulate:

- Drug absorption, distribution, metabolism, and excretion (ADME)
- Receptor binding and drug concentration-effect relationships
- Time-concentration and time-effect curves for various drug classes

Participants observed how digital modeling tools can predict outcomes across a range of physiological and pathological conditions, allowing researchers to test hypotheses and refine protocols before engaging in live animal studies.

The session highlighted the growing role of in silico methodologies in reducing animal usage, in alignment with the 3Rs principle (Replacement, Reduction, Refinement). Delegates learned to interpret simulation outputs, assess drug behavior across different model systems, and design preclinical studies more thoughtfully and ethically.

2. Effect of Drugs on Isolated Tissues – Ex Vivo Organ Bath Studies

In a complementary session, Dr. M. Sreekanth, Dr. K.R.V.S. Chaitanya, Mr. D. Suresh, and Mrs. P. Rajyalakshmi Devi provided intensive training on isolated tissue experimentation using organ bath setups—a gold standard in pharmacological research for evaluating drug effects on excised tissues.

Participants worked with:

- Isolated heart preparations to observe inotropic and chronotropic effects
- Skeletal muscle models for neuromuscular transmission studies
- Smooth muscle strips (e.g., guinea pig ileum or rat uterus) to evaluate responses to autonomic drugs

Under expert guidance, delegates learned:

- Tissue mounting and stabilization techniques
- Recording muscle contractions using isotonic and isometric transducers
- Construction of dose-response curves and cumulative drug effect analyses
- Graphical data interpretation and calculation of pharmacological parameters such as EC_{50} and pA_2 values

This ex vivo module reinforced the mechanistic understanding of drug action, while simultaneously training participants in precise experimental execution and data analysis—skills essential for both academic research and regulatory studies.

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Dr. Jyoti Kale being welcomed to LACEA 2025 day three on 26.06.25 at SNVPMV

Dr. Jyoti Kale delivering his lecture on day three of LACEA 2025 on 26.06.25 at SNVPMV

Dr. Jyoti Kale being felicitated on day three of LACEA 2025 on 26.06.25 at SNVPMV

Dr. Uday Kumar being felicitated on day three of LACEA 2025 on 26.06.25 at SNVPMV

Dr. Uday Kumar delivering his lecture on day three of LACEA 2025 on 26.06.25 at SNVPMV

Dr. Kiran Kumar being felicitated on day three of LACEA 2025 on 26.06.25 at SNVPMV

Dr. Kiran Kumar delivering his lecture on day three of LACEA 2025 on 26.06.25 at SNVPMV

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Hands on experience on In-silico method - Ex Pharma Series Software on day three of LACEA 2025 on 26.06.25 at SNVPMV

Hands on experience on Isolated Heart Experiment on day three of LACEA 2025 on 26.06.25 at SNVPMV

Hands on experience on Isolated Skeletal Muscle Experiment on day three of LACEA 2025 on 26.06.25 at SNVPMV

Hands on experience on Isolated Smooth Muscle Experiment on day three of LACEA 2025 on 26.06.25 at SNVPMV

Hands on experience on Isolated Heart Experiment on day three of LACEA 2025 on 26.06.25 at SNVPMV

Valedictory Ceremony & Delegate Feedback (Day 3 Afternoon)

The final segment of the three-day workshop commenced with the grand valedictory ceremony in the SNVPMV auditorium. This session gathered all dignitaries, speakers, organizing committee members, faculty, and delegates to reflect on the event's success and share experiences.

The ceremony began with the arrival of dignitaries, including Mr. A.V. Srikanth and Mr. Pradyumna (Governing Body Members), Director Dr. N. Srinivas, Principal Dr. T. Mamatha, and Workshop Coordinator Dr. Venu Talla. Each dignitary addressed the audience with heartfelt remarks:

- **Mr. A.V. Srikanth** praised the Department of Pharmacology for meticulously planning and executing a technically rich workshop, acknowledging the institution's leadership in promoting animal ethics education and skills.
- **Mr. Pradyumna** commended the active participation of delegates from various institutions and emphasized the importance of such workshops for spreading awareness on humane science and regulatory compliance.
- **Dr. N. Srinivas**, Director, expressed deep satisfaction with the workshop's outcomes. He lauded the collective efforts of faculty, staff, students, and management, noting that the event's combination of theory, practical demonstrations, and interactive sessions would have a lasting impact on participants' professional practices.
- **Dr. T. Mamatha**, Principal, reiterated the institution's commitment to quality education and encouraged participants to apply the knowledge and skills acquired in their respective institutions, contributing to ethical and scientifically sound animal research across India.

Delegate Oral Feedback:

Several delegates shared enthusiastic feedback during the valedictory session, highlighting both the technical excellence and the hospitality experienced during the three days:

- **Dr. Teja (ESIC Hyderabad)** expressed overwhelming appreciation for the comprehensive technical content, high-quality hands-on demonstrations, and the warm hospitality extended by the organizers. He noted how the dedication of the faculty inspired him to adopt similar standards of excellence in his own institution.

- **Dr. Devaraju, CPCSEA Member Secretary**, provided highly positive feedback on the meticulous organization of the workshop. He emphasized the importance of conducting similar training programs nationwide to enhance ethical practices and improve standards in laboratory animal care across India.
- **Dr. Hemamalini** commended the inclusion of advanced in silico methods using ExPharma software, highlighting how these approaches can significantly reduce the need for animal use in research. She suggested that more colleges adopt such innovative techniques to align with global trends in replacement and reduction.
- **Ms. Sucharitha (Malla Reddy University)** was deeply impressed by the extensive practical sessions and the rare opportunity to gain hands-on experience. She appreciated the faculty's patience and attention to detail in guiding each participant through the procedures.
- **Ms. Swetha (Scient College of Pharmacy)** conveyed heartfelt thanks to SNVPMV for graciously accommodating 20 registrations from their college. She acknowledged that this generous opportunity allowed their students to benefit immensely from the rich and practical learning experience.
- **Dr. Priya (Kamineni Hospital, L.B. Nagar)** expressed keen interest in establishing collaborative training programs with SNVPMV, recognizing the institution's expertise and leadership in laboratory animal handling, ethical compliance, and alternative methods.
- **Dr. Pramod (G. Pulla Reddy College)** praised the seamless coordination of each session, the clarity and professionalism of the technical demonstrations, and the unwavering support provided by the faculty, which ensured every delegate could make the most of the workshop.

The collective feedback highlighted the workshop's effectiveness in imparting essential skills, fostering ethical practices, and inspiring institutions to raise their standards in laboratory animal research and training.

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Dignitaries for Valedictory session of LACEA 2025 on 26.06.25 at SNVPMV

Valedectory of delegates of LACEA 2025 on 26.06.25 at SNVPMV

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Certificates & Recognition:

Following the delegate feedback, dignitaries presented certificates of participation to all delegates in batches, ensuring each participant was personally recognized. This moment was a highlight of the ceremony, with delegates expressing joy and gratitude as they received their certificates.

Additionally, faculty members and students who were part of the Local Organizing Committee (LOC) were called on stage to receive appreciation certificates for their hard work and dedication. The dignitaries emphasized that the success of such a comprehensive workshop was possible only because of the commitment and teamwork of the organizing members.

Closing Remarks & Group Photos:

In the final addresses, dignitaries once again congratulated the organizing team and thanked the participants for their active engagement throughout the three days. The gathering then assembled for group photographs of dignitaries, faculty, LOC members, and all participants — capturing memories of the collaborative and enriching experience.

The workshop concluded with the **National Anthem**, symbolizing unity, pride, and a shared commitment to advancing ethical practices in animal experimentation. This respectful end reflected the spirit of cooperation and dedication to responsible science that defined the entire workshop.

Participation Statistics

The workshop saw remarkable engagement, with **145 delegates** from **34 institutions** spanning diverse backgrounds:

- Medical colleges (ESIC , Gandhi Medical College, Kamineni Institute of Medical Sciences)
- Veterinary colleges.
- Pharmacy Colleges.
- Nursing graduates.
- Government universities (Kakatiya Univesity)
- Governament Research Centres (NIN, CCMB)

Delegates traveled from various states, highlighting the workshop's national relevance and SNVPMV's reputation as a center of excellence in laboratory animal science.

Acknowledgements

The Department of Pharmacology extends heartfelt gratitude to:

- The Committee for Control and Supervision of Experiments on Animals (CCSEA) for guidance and collaboration.
- Bharath Biotech International Ltd for collaboration.
- SNVPMV Management, including Chairman Dr. B. Prabha Shankar, for unwavering support.
- Esteemed speakers for their expert lectures.
- Faculty, LOC members, and student volunteers for flawless execution.
- Delegates for their enthusiasm and positive spirit.

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Three Days Hands on Workshop on

LABORATORY ANIMAL CARE, ETHICS, & ALTERNATIVES (LACEA-2025): A COMPREHENSIVE WORKSHOP

Supported by CCSEA, Ministry of Fisheries, Animal Husbandry and Dairying, Govt. of India

Date: 24th June to 26th June 2025

DAY 1 : 24/06/2025

BATCH 1

S. NO.	ID NO	NAME OF DELEGATE	CONTACT NO.	E. MAIL ID	COLLEGE NAME	SIGNATURE
1)	L25001	Ms. Sravya B	9000461480	dureddysravya@gmail.com	St. Mary's Group of Institutions, Hyderabad, Deshmukhi	Absent
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3)	L25003	Dr. Nikhitha KT	9110818685	nikhithakt06@gmail.com	Veterinary college Shivamogga	
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10	L25012	Dr. Madhavi latha Sudini	9704911068	sameerajalr@gmail.com	SDBP, Rajendranagar	

I.d & kit given

I would like to request Dr. A.V. Sreekanth Sir, governing Body members to deliver the certificates.

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16	L25019	Ms. Syed Faiza Sadaf	9381996109	syedasalmakousar20@gmail.com	Vignan university	
17	L25020	Ms. N.Reynaa Mary	7702386319	Reynaa12402@gmail.com	Omega college of pharmacy	
18	L25021	Ms. Merin Livingston	6300958932	merinlivingston03@gmail.com	Omega college of pharmacy	
19	L25022	Dr. K Hemamalini	9553601248	rkhemamalini@gmail.com	Swami Vivekananda Institute of Pharmaceutical Sciences	
20	L25023	Dr. P.Srivarshini	9494102526	poshalasrivarshini@gmail.com	Esic medical College	
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22	L25025	Dr. Swetha M	9791622219	drswethapharm22@gmail.com	ESIC Medical College & Hospital, Sanathnagar, Hyderabad	
23	L25026	Ms. Athkuri Jishnu Sri	8121084189	purchase@saradhilifesciences.com	Saradhi Life Sciences Private Limited	
24	L25027	Dr. Syed Nilufar	7093928357	nilufarsyed777@gmail.com	Esic medical college and hospital	
25	L25028	Ms. Kakkerla Swetha	8143364412	swetha@chaitanya.edu.in	Chaitanya (Deemed to be University)	

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26	L25029	Dr. Naseeb Basha Shaik	9959546008	naseebgprcp@gmail.com	G Pulla Reddy College of Pharmacy	
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28	L25031	Mr. Hariharan	7674928822	hari8haran8@gmail.com	Malla Reddy University	
29	L25032	Ms. Putta. Srihitha	8919802235	puttasrihitha77@gmail.com	Malla Reddy University	
30	L25033	Ms. Merugu Samyuktha	6303146712	merugusamyuktha02@gmail.com	Gokaraju rangaraju college of pharmacy	
31	L25034	Dr. Sagar Suranagi	9110800576	sagarsuranagi1999@gmail.com	Karnataka Veterinary, Animal and Fisheries Sciences University, 33Bidar	
32	L25035	Ms. Mulam Sai Divya Sahithi	9392925058	sahithimulam@gmail.com	Malla Reddy University	

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BATCH II

DAY 1 : 24/06/2025

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5	L25040	Ms. Yeshashree G	7780543328	yeshashree0101@gmail.com	Omega College of Pharmacy	
6	L25041	Dr. Marrikanti Charan Reddy	9652654596 6303004988	charan.bhashyam@gmail.com	Kamineni Academy of Medical Sciences and Research Centre	
7	L25042	Dr.Sreeja Nittoori	7893628039	srija.nitt@gmail.com	Esic Medical College,	
8	L25043	Dr. Kadiyala Venkata Sahitya	9848064696	venkatsk14@gmail.com	Kamineni Academy of Medical Sciences and Research Center	
9	L25054	Dr. Akshata C Mathapati	8884546967	akshatacm2306@gmail.com	Veterinary College Shivamogga, KVAFSU	
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I would like to request Mr. V Padyumna ji governing body member, to deliver the certificates.

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30	L25076	Ms. Pedaprolu Khamani	8179651963	khamanipedaprolu@gmail.com	Omega College of Pharmacy	

31	L25077	Ms. P. Teja Sri Mahalaxmi	9703002663	ptsmnaidu3@gmail.com	Omega College of Pharmacy	
32	L25078	Dr. J Shrvan Kumar	7731000378	sravan.jerry@gmail.com	Sanzyme Pvt.Ltd	

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BATCH III **Date: 24th June to 26th June 2025**

DAY 1 : 24/06/2025

S. NO.	ID NO	NAME OF DELEGATE	CONTACT NO.	E. MAIL ID	COLLEGE NAME	SIGNATURE
1	L25079	Dr. Srinath Mote	8309142341	smsrinath172@gmail.com	Viral Research and Diagnostic Laboratory, Osmania Medical College, Hyderabad.	
2	L25080	Ms. Amreen Samiya Mirza	6303054170	samiyam665@gmail.com	Joginpally BR Pharmacy College	
3	L25081	Ms. Sumaiya Ahmed	9502196460	realsumaiyaahmed19@gmail.com	Joginpally BR Pharmacy College	
4	L25082	Ms. Guduguntla Aswini	9951096152	guduguntlaaswini11@gmail.com	kakatiya university Warangal	
5	L25083	Ms. Rumana Jabeen	7416479184	rumanajabeen29@gmail.com	Joginpally B.R pharmacy college	
6	L25084	Ms. Shaik Nikhith jaha	7816053629	nikhithjahashaik@gmail.com	Malla Reddy University	
7	L25085	Mr. B. Lovaprasad	9704929911	lovabureddi@gmail.com	Sanzyme Pvt Ltd	
8	L25086	Mr. G. Karunakar	9133690678	karunakargondle812@gmail.com	Sanzyme Pvt Ltd	
9	L25087	Dr. Kunduru Sravani	8978497348	sahajashree6@gmail.com	Sanzyme Pvt Ltd	
10	L25088	Dr. N. Anuradha	9871415953	dkanuradha2003@gmail.com	Mamata academy of medical sciences	
11	L25089	Dr. Devaraju Terepogu	7032254536	drtdr1975@gmail.com	Dr.Buddollas Institute of Life Sciences	
12	L25090	Mr. P.Trinethra	9110384967	trinethra05parvatha@gmail.com	Malla	
13	L25091	Ms. K.Hithaswi	8341443158	hithaswik@gmail.com	Mallareddy University	

I would like to request Mrs. Sandhya Deepala Mam, Hon. Treasurer to deliver the certificates.

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1	L25079	Dr. Srinath Mote	8309142341	smsrinath172@gmail.com	Viral Research and Diagnostic Laboratory, Osmania Medical College, Hyderabad.	
2	L25080	Ms. Amreen Samiya Mirza	6303054170	samiyam665@gmail.com	Joginpally BR Pharmacy College	
3	L25081	Ms. Sumaiya Ahmed	9502196460	realsumaiyaahmed19@gmail.com	Joginpally BR Pharmacy College	Received kit
4	L25082	Ms. Guduguntla Aswini	9951096152	gudugunttlaaswini11@gmail.com	kakatiya university Warangal	G Aswini Received kit
5	L25083	Ms. Rumana Jabeen	7416479184	rumanajabeen29@gmail.com	Joginpally B.R pharmacy college	
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7	L25085	Mr. B. Lovaprasad	9704929911	lovabureddi@gmail.com	Sanzyme Pvt Ltd	
8	L25086	Mr. G. Karunakar	9133690678	karunakargondle812@gmail.com	Sanzyme Pvt Ltd	
9	L25087	Dr. Kunduru Sravani	8978497348	sahajashree6@gmail.com	Sanzyme Pvt Ltd	Sravani
10	L25088	Dr. N. Anuradha	9871415953	dkanuradha2003@gmail.com	Mamata academy of medical sciences	
11	L25089	Dr. Devaraju Terepogu	7032254536	drtdr1975@gmail.com	Dr.Buddollas Institute of Life Sciences	
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13	L25091	Ms. K.Hithaswi	8341443158	hithaswik@gmail.com	Mallareddy University	K. Hithaswi

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19	L25097	Dr. G Sowmya sree	09398746272	sowmyasreereddy990@gmail.com	PVNRTVU	
20	L25098	Ms. Patnam Supriya	9398647234	supriyareddy886@gmail.com	Mallareddy university	
21	L25099	Mr. Md Nabeeluddin Karigar	9916478612	nkarigart@gmail.com	G pulla reddy college of pharmacy	
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23	L25101	Ms.Kashi Hari Priya	7816074254	tirupathiharipriya@gmail.com	Vaagdevi college	
24	L25102	Dr.Vinyas Mayasa	99491 23037	vmayasa@gitam.edu	Gitam school of pharmacy	
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30	L25111	CH. Chandini	9870492866	chandinichithari@gmail.com	Scient Institute of Pharmacy	
31	L25112	A. Sindhu	9705985684	anamgalla.sindhu@gmail.com	Scient Institute of Pharmacy	
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BATCH IV

DAY 1 : 24/06/2025

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1	L25114	G. Kavya	8008884950	Kavya.gls22@gmail.com.	Scient Institute of Pharmacy	Kavya. G.
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11	L25124	U Abhinaya	7674094653	abhinayadugula06@gmail.com	Scient Institute of Pharmacy	U. Abhinaya
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15	L25128	Dr. B. Maheshwari Reddy			JBRPC	
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17	L25130	Dr. A Naga Teja Pavani	8106071603	pavani.jps@gmail.com	Kamineni Academy of	

Kit Recd

I would like to request Sri. Chandrajeet Singh (Joint Secretary SNVPMV) Sir & Sri B. Hanumanth Rao (Hon. Secretary SNVPMV) to deliver the certificates.

DAY-2.

					Medical Sciences and Research Centre	
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19	L25132	Ms. D Tejaswini	9391036592	tejaswini050504@gmail.com	JBRPC	
20	L25133	Ms. Mosam Jyothisree	8328131532	sreej657@gmail.com	JBRPC	
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24	L25137	Dr. V.R.Surya Anusha	9398167891	koppalachaitu@gmail.com	Gokaraju Rangaraju College of Pharmacy	
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28	L25141	Dr.T.Gurukiran	9008334012		Veterinary College of Bidar	Ab
29	L25142	Dr.Shazanmurtuza	8971720545		Veterinary College of Bidar	Ab
30	L25143	Dr.Ganeshkumar	9113675558		Veterinary College of Bidar	Ab
31	L25144	Dr.M.A Baseer	8050342007		Veterinary College of Bidar	Ab
32	L25145	Dr. K Sangeetha	8499868899	Sangeethakavela@gmail.com	Gandhi medical College	Sangeetha

Waiting for Sir Took

Certificates yet to come.