

LABORATORY ANIMAL MEDICINE

Learning Outcomes

1. **KNOW:** Demonstrate appropriate breadth and depth of knowledge of husbandry, veterinary care, pathology, and colony management of species of animals commonly used in biomedical research.
2. **APPLY/CREATE:** Apply knowledge of laws, regulations, guidelines, and position statements concerning the use of animals in biomedical research to common research activities and scenarios.
3. **APPLY/CREATE:** Apply knowledge of anesthesia and analgesia of animal species used in biomedical research to critical evaluation of IACUC protocols, development of recommendations for prevention of pain and distress, and veterinary medical management of surgical procedures.
4. **APPLY/CREATE:** Apply knowledge of adult learning theory and education methodology to the design and execution of techniques training for researchers and other teaching activities.
5. **APPLY/CREATE:** Apply knowledge of research ethics, experimental design, techniques, data management, and data analysis to create new knowledge connected to the field of laboratory animal science and/or other biomedical science disciplines.
6. **COMMUNICATE:** Demonstrate a variety of methods for communicating scientific information, including formal presentations, discussion facilitation, written abstracts, written manuscripts, and poster presentations.
7. **THINK:** Critically evaluate published research in the field of laboratory animal science and biomedical research disciplines in order to practice evidence-based laboratory animal medicine, support animal welfare, and support the research mission.
8. **PROFESSIONAL PRACTICE:** Practice veterinary medicine in accordance with the highest ethical standards, values, and best practices for the recognized veterinary specialty of laboratory animal medicine.