Essential online training for investigators, technicians, veterinarians, managers, and IACUC members in the laboratory animal science field.

**ANIMAL CARE & USE COURSES**

**AALAS Certification Preparation**
CMAR: Preparing for the Animal Resources Exam
Study & Test-Taking Skills
Taking an AALAS Technician Certification Exam

**ALAT Training (2018)**
1: The Field of Laboratory Animal Science
2: The Animal Research Environment
3: Facility Security & Emergencies
4: Occupational Health & Safety
Unit 1 Review Exam (ALAT 1–4)
5: Facility Equipment
6: Caging Systems
7: The Laboratory Animal Environment
8: Housekeeping Tasks & Contamination Control
9: Feed & Nutrition
10: Husbandry
Unit 2 Review Exam (ALAT 5–10)
11: Animal Procurement & Quarantine
12: Medications
13: Colony Health Surveillance
14: Euthanasia
Unit 3 Review Exam (ALAT 11–14)
15: Introduction to Science & Metrics
16: Experimental Design & Methodology
17: Heredity & Breeding
Unit 4 Review Exam (ALAT 15–17)
18: Mice
19: Rats
20: Hamsters
21: Gerbils
22: Guinea Pigs
23: Rabbits
24: Cats
25: Dogs
26: Swine
27: Ruminants
28: Nonhuman Primates
29: Birds
30: Fish
31: Amphibians
32: Ferrets
33: Less Common Research Animals
Unit 5 Review Exam (ALAT 18–33)
Final Review Exam (ALAT 1–33)
ALAT Combined Review Exam

**LAT Training (2021)**
1: Animal Research, Funding, and Program Oversight
2: Policies, Guidelines & Regulations in Animal Research
3: Ethics in Animal Research
4: Administrative Responsibilities
Unit 1 Review Exam (LAT 1–4)
5: Laboratory Animal Facility Design & Environmental Management
6: The Aquatic Environment
Unit 2 Review Exam (LAT 5–6)
7: Anatomy & Physiology
8: Genetics & Breeding Colony Management
9: Calculations & Conversions
Unit 3 Review Exam (LAT 7–9)
10: Devices & Equipment for Common Technical Procedures
11: Performing Common Technical Procedures
12: Research Methodology
13: Surgical Instruments & Materials
14: Aseptic Technique, Surgical Support & Anesthesia
Unit 4 Review Exam (LAT 10–14)
15: Diseases & Health Conditions
16: Emergency Situations
Unit 5 Review Exam (LAT 15–16)
Final Review Exam (LAT 1–16)
LAT Combined Review Exam
LATG Training (2016)
1: Personnel Management
2: Training
3: Facility Management
4: Facility Security and Disaster Planning
5: Managing Compliance
6: Health Surveillance and Quality Assurance
7: Occupational Health and Safety
Unit 1 Review Exam (LATG)
8: Biochemistry, Nutrition, and Feed
9: Molecular Biology
10: Genetic Engineering
11: Gnotobiotics
Unit 2 Review Exam (LATG)
12: Immunology
13: Agents of Infectious Disease
14: Common Health Problems of Laboratory Animals
15: Diagnostic Techniques
16: Pharmacology
17: Anesthesia and Analgesia
18: Experimental Design and Data Handling
Unit 3 and 4 Review Exam (LATG 12-18)
Final Review Exam (LATG 01-18)
LATG Combined Review Exam

Biosecurity
Introduction to VA Biosecurity Concepts

Calculations & Statistics
Basic Metrics for the Laboratory Animal Facility
Design and Statistical Analysis of Laboratory Animal Studies
Dose Calculations I: Basic
Dose Calculations II: Advanced
Fractions, Percentages, & Decimals

Common Health Conditions of Mice
Mice: 1 - Physical Exam
Mice: 2 - Nonspecific Clinical Conditions
Mice: 3 - Gastrointestinal Conditions
Mice: 4 - Integumentary Conditions
Mice: 5 - Musculoskeletal and Neurological Conditions
Mice: 6 - Ophthalmic Conditions
Mice: 7 - Reproductive and Urinary Conditions
Mice: 8 - Respiratory Conditions
Mice: 9 - Other Clinical Conditions
Mice: 10 - Emergency Conditions

Compliance & IACUC Training
Animal Protocols: Strategies for Effective Review
Common Compliance Issues
Essentials for IACUC Members
IACUC Chair: Role and Responsibilities
Institutional Official: Role in Laboratory Animal Research
Maintaining Animal Procedure Areas
Post-Approval Monitoring Refresher: Working with the IACUC
Semiannual Facility Inspection
Working with the IACUC

Facilities, Supplies, & Materials
Aquatic Animal Husbandry & Management
Cage Equipment Cleaning Using Mechanical Washers
Microbial Decontamination Principles & Chemical Disinfectants
Personal Protective Equipment for Working in a Laboratory Animal Facility
Physical Plant Work in the LAF—Manager Orientation

Anesthesia, Analgesia, & Surgery
Aseptic Technique for Rodent Survival Surgery
Humane Endpoints
Inhalation Anesthesia Systems for Rodents
Large Animal Surgery: Aseptic Technique and Anesthesia
Pain Management in Laboratory Animals
Post-Procedure Care of Mice & Rats in Research: Minimizing Pain & Distress
Small Ruminant Anesthesia

Animal Health & Wellbeing
Environmental Enrichment
Introduction to Laboratory Animal Medicine
Laboratory Animal Nutrition
Medical Records

Bioimaging
Magnetic Resonance Imaging
Optical Imaging
PET and SPECT Imaging
Thermography Imaging
Physical Plant Work in the LAF—Technician Orientation
Syringes & Needles
Watering Systems

Lab Animal Research Support Certificate
Introduction to the Program

Management & Training
Active Listening
Communicating with the Non-Native English Speaker
Delegation & Empowerment
Management and Leadership Fundamentals
Reaching Out to the Public: A How to Guide
Standard Operating Procedures (SOPs)
Team Building
Time Management & Goal Setting
Training in Laboratory Animal Science—An Overview
Writing Multiple Choice Questions

Mandates & Guidelines—Australia
Australian Code for the Care and Use of Animals for Scientific Purpose

Mandates & Guidelines—U.S.
Animal Welfare Act Regulations
AVMA Guidelines for the Euthanasia of Animals
Biosafety in Microbiologic & Biomedical Laboratories
Export Control Regulations
Good Laboratory Practice Regulations
Guide for the Care and Use of Agricultural Animals in Research and Teaching (4th Edition)
Guide for the Care & Use of Laboratory Animals
NIH Guidelines for Research with Recombinant or Synthetic DNA
Occupational Health & Safety in the Care & Use of Research Animals
PHS Policy on Humane Care & Use of Laboratory Animals

Occupational Health & Safety
Bloodborne Pathogens Training
Compassion Fatigue
Ergonomics: Working Smart Introduction to

Ergonomics
Laboratory Animal Allergy
Working Safely in the Vivarium During a Pandemic

Scientific Reproducibility
Effect of Macroenvironmental Variables on Reproducibility
Reproducibility in Preclinical Imaging

Species-Specific Courses
Introduction to Amphibians
Introduction to Bats
Introduction to Birds
Introduction to Cats
Introduction to Cattle
Introduction to Chinchillas
Introduction to Cotton Rats
Introduction to Dogs
Introduction to Ferrets
Introduction to Fish
Introduction to Gerbils
Introduction to Guinea Pigs
Introduction to Hamsters
Introduction to Horses
Introduction to Mice
Introduction to Monodelphis Opossums
Introduction to Nonhuman Primates
Introduction to Rabbits
Introduction to Rats
Introduction to Sheep & Goats
Introduction to Swine
Introduction to Wildlife
Introduction to Woodchucks
Working with Laboratory Xenopus
Working with Laboratory Zebras
Working with Laboratory Poultry in the Laboratory
Working with the Laboratory Dog (5 courses):
  - The Basics
  - Endotracheal Intubation
  - Injections & Blood Collection
  - Urinary Catheterization
  - Venous Catheterization
Working with the Laboratory Ferret
Working with the Laboratory Mouse
Working with the Laboratory Rat

Toxicology
Toxicological Research I: Basics
Toxicological Research II: Drug and Biological Product Development
Toxicological Research III: Risk Assessment and Policy

**HUMAN RESEARCH PROTECTIONS LIBRARY**
Human Research Protection Training

**ANIMAL BIOSAFETY TRAINING PROGRAM LIBRARY**
Animal Biosafety Concepts
Animal Biosafety Training Program Introduction
Animal Biosafety Risk Assessment & Management
Animal Facility Designs for Biocontainment
Biocontainment Equipment
Biosecurity in Animal Biocontainment Facilities
Incident Planning & Response within the Animal Biocontainment Facility
Institutional Responsibilities & Animal Biosafety
Microbiological Decontamination in Biocontainment
Occupational Health & Animal Biosafety
Select Agents & Toxins Regulations

**Animal Biosafety Species-Specific**
Working Safely with Laboratory Animals in Biocontainment
Working Safely with Nonhuman Primates in Biocontainment
Working Safely with Poultry in Biocontainment
Working Safely with Rabbits & Ferrets in Biocontainment
Working Safely with Rodents in Biocontainment
Working Safely with Ungulates in Biocontainment

**RESEARCH ETHICS LIBRARY**
Bioethics
Ethical Case 1: Mouse in a Parasitology Experiment
Ethical Case 2: Rat with Partial Paralysis
Ethical Decision-Making in Animal Research

**Responsible Conduct of Research**
Avoiding Financial Conflict of Interest in Federal Research
Responsible Conduct of Research: Introduction
Responsible Conduct of Research Part 1: Shared Values
Responsible Conduct of Research Part 2: Planning Research
Responsible Conduct of Research Part 3: Conducting Research
Responsible Conduct of Research Part 4: Reporting and Reviewing Research

**TRANSGENICS TRAINING PROGRAM LIBRARY**
Transgenics Core Courses
Introduction to the AALAS Transgenics Training Program
Colony Management I: Breeding and Recordkeeping
Colony Management II: Daily Workflow
Colony Management III: Plans and Strategies
Genetics: The Basics
Genetics: Transgenic Mice
Transgenic and Gene-Targeted Technology

**Transgenics Strain Nomenclature**
Nomenclature: Mice
Nomenclature: Rats