

Course Catalog

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

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

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

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

Laboratory Animal Facility Design

Microbial Decontamination Principles &

Chemical Disinfectants

Personal Protective Equipment for Working in a Laboratory Animal Facility Physical Plant Work in the LAF—Manager Physical Plant Work in the LAF—Technician 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

Working with Controlled Substances

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 Zebrafish

Working with 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

Concepts & Practices of Animal Biosafety:

ABSL-2 & 3

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

Nomenciature. Rats

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