Preparing a Small Business Application Involving Vertebrate Animals

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OFFICE OF EXTRAMURAL RESEARCH | OFFICE OF THE DIRECTOR | NATIONAL INSTITUTES OF HEALTH



NIH Mission











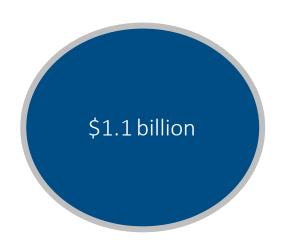
To seek fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability.

The Small Business Program helps NIH accelerate discoveries from bench to bedside



Congressionally Mandated Programs

\$1.2 Billion Dedicated Funding via Set-aside from NIH's R&D Budget



SMALL BUSINESS INNOVATION

RESEARCH (SBIR) PROGRAM

Set-aside program for small business concerns to engage in federal R&D -- with potential for commercialization

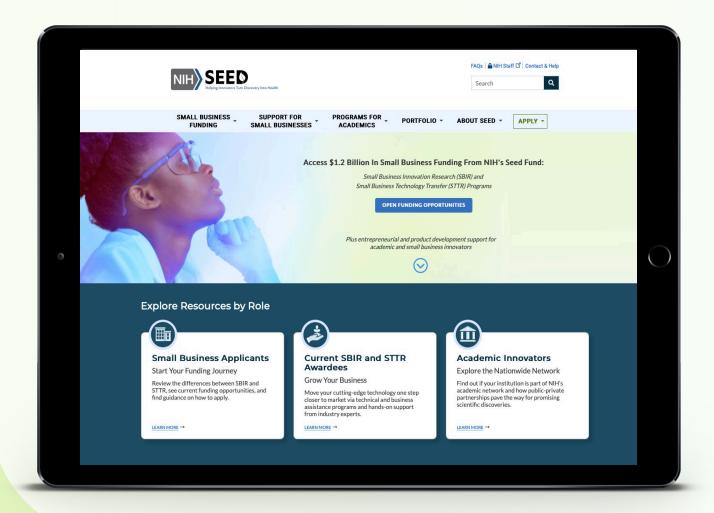


SMALL BUSINESS TECHNOLOGY

TRANSFER (STTR) PROGRAM

Set-aside program to facilitate cooperative R&D between small business concerns and US research institutions -- with potential for commercialization

Small Business Program Website



http://seed.nih.gov



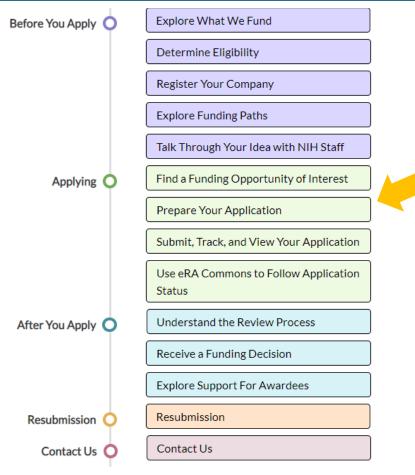
Resources

SMALL BUSINESS FUNDING

HOW TO APPLY

Find step-by-step instructions to apply for SBIR and STTR grants along with contact touchpoints at each step.

https://seed.nih.gov/small-business-funding/how-to-apply



Links to:

<u>Application Instructions</u>

Annotated Form Set

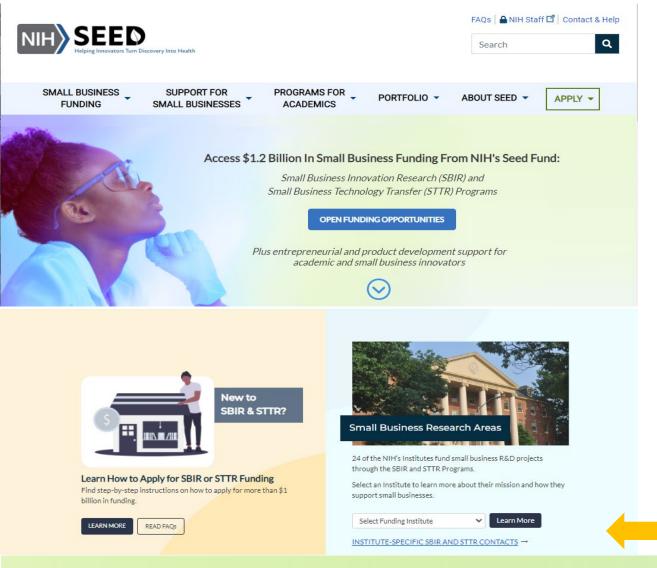
Sample Applications

Programs for Applicants:

- NIH Applicant Assistance Program
- Health Disparities Pre-Application (HDPreAPP) Program

https://seed.nih.gov/aboutseed/diversifyentrepreneurial-workforce

Most Important Piece of Advice



Talk to a Program Officer at least a month before the application deadline!

List of SBIR Program Managers: https://seed.nih.gov

Not sure who to contact?

Research Portfolio Online Reporting Tools (RePORT): https://report.nih.gov/

Email: <u>SEEDinfo@nih.gov</u>

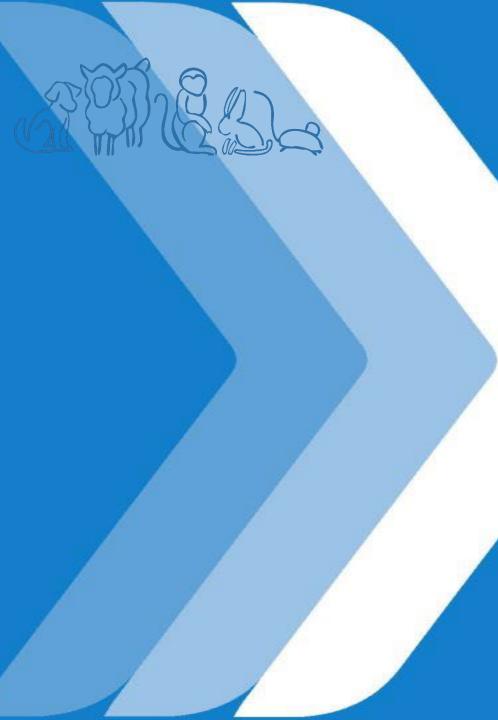
OFFICE OF LABORATORY ANIMAL WELFARE (OLAW): PREPARING A SMALL BUSINESS APPLICATION INVOLVING VERTEBRATE ANIMALS

Jane Na, DVM, CPIA
Director, Division of Assurances

Nicole Lukovsky-Akhsanov, DVM, MPH, DACLAM Senior Animal Welfare Program Specialist

Office of Laboratory Animal Welfare (OLAW)
Office of Extramural Research (OER)
National Institutes of Health (NIH)





LEARNING OBJECTIVES

- √ Summarize OLAW's oversight responsibilities
- ✓ Describe the origins and requirements of the Public Health Service Policy on Humane Care and Use of Laboratory Animals (PHS Policy)
- ✓ Define live vertebrate animal
- ✓ Understand requirements of the Health and Human Services Acquisition Regulations (HHSAR) and National Institutes of Health Grants Statement Policy (NIH GPS)
- ✓ Identify the PHS Policy requirements for an institution receiving funding involving the use of live vertebrate animals
- ✓ Identify the three types of Animal Welfare Assurances
- ✓ Discuss the Vertebrate Animals Section (VAS)
- ✓ Discuss IACUC verification requirements
- ✓ Understand compliance oversight requirements
- √21st Century Cures Information
- √ Additional educational opportunities



OLAW Mission

The Office of Laboratory Animal Welfare (OLAW) provides guidance and interpretation of Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy), supports educational programs, and monitors compliance with the Policy by Assured institutions and PHS funding components to ensure the humane care and use of animals in PHS-supported research, testing, and training and thereby contributing to the quality of research.



OLAW'S RESPONSIBILITIES

Oversee implementation of the PHS Policy

Provide interpretation and guidance

Negotiate Animal Welfare Assurances

Evaluate compliance

- Institutional self reporting
- Third party allegations
- Whistleblowers

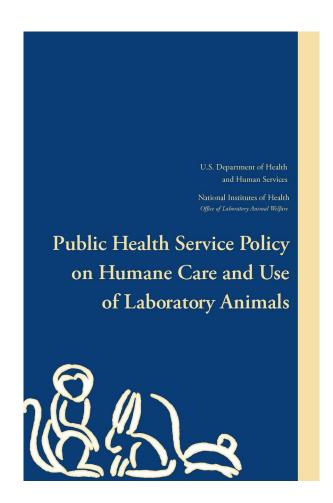
Educational activities

- Workshops/Training
- Resources
- Webinars

OFFICE OF LABORATORY ANIMAL WELFARE (OLAW)



Public Health Service (PHS) Policy: INSTITUTIONAL RESPONSIBILITIES



Animal Welfare Assurance

Functions of the Institutional Animal Care and Use Committee (IACUC)

Review of PHS-Conducted or Supported Research Project

Information Required in Applications and Proposals for Awards Submitted to PHS

Record-keeping requirements

Reporting requirements



THE PHS POLICY APPLIES TO ANIMAL WORK CONDUCTED OR SUPPORTED BY PHS AGENCIES AND...









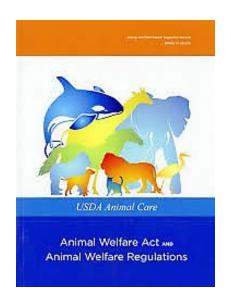
...agencies that have opted in through memoranda of understanding with OLAW.



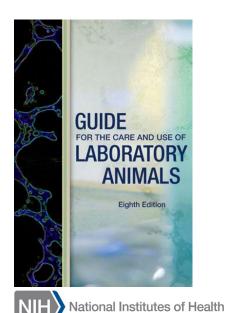












Office of Laboratory Animal Welfare

AVMA Guidelines for the Euthanasia of Animals: 2020 Edition*

Members die Paul en Bethanskis

Members die Paul en Bethanskis

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Item/ Exercises Associated by Associated Ass

The PHS Policy requires compliance with these documents.

PHS POLICY DEFINITION



Animal defined as:

"any live vertebrate animal used or intended for use in research, research training, experimentation, or biological testing or for related purposes".











DOES PHS POLICY APPLY?

Which studies are considered Vertebrate Animal Use?

- Embryonated egg
- **Tadpole**
- Zebrafish
- Cow spleen from slaughterhouse
- Custom antibodies from goat
- Chimpanzee behavior study
- Octopus nerve study
- Mosquito malaria study

"Any live, vertebrate animal used or intended for use in research, research training, experimentation, or biological testing or for related purposes."





The Institutional Animal Care and Use Committee (IACUC)

The IACUC is responsible for oversight of the animal care and use program and its components as described in the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy) and the Guide for the Care and Use of Laboratory Animals (Guide). Its oversight functions include an ongoing assessment of animal care and use.





IACUC Review of PHS-Supported Research Projects (IV.C. 1 a -g)

- 1. Avoid or minimize pain and distress
- 2. Appropriate sedation, analgesia, or anesthesia
- 3. Identification of humane endpoints

- 4. Appropriate housing that contributes to animals' health
- 5. Medical care
- 6. Trained personnel
- 7. Euthanasia methods consistent with American Veterinary Medical Association Guidelines.



Information Required in Applications and Proposals for Awards Submitted (IV.D.)

- 1. Identification of the species and approximate number of animals;
- 2. The rationale for involving animals, and for the appropriateness of the species and numbers used
- 3. A complete description of the proposed use of the animals;
- 4. A description of procedures designed to assure that discomfort and injury to animals is limited, and that analgesic, anesthetic, and tranquilizing drugs will be used where indicated;
- 5. A description of any euthanasia method to be used.





HHS ACQUISITION REGULATIONS 48 CFR CHAPTER 3

 370.4 Acquisitions Involving the Use of Laboratory Animals

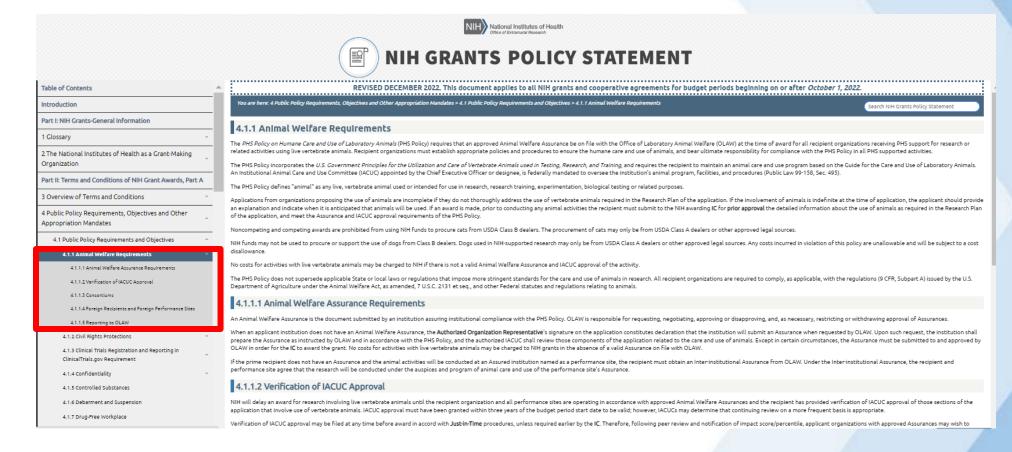
This subpart applies to all research, research training, biological testing, housing and maintenance, and other activities involving live vertebrate animals conducted under contract. Additional information can be found in Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals

352.270-5b Care of Live
 Vertebrate Animals

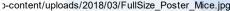
Before undertaking performance of any contract involving animalrelated activities where the species is regulated by the United States Department of Agriculture (USDA), the Contractor shall register with the Secretary of Agriculture of the United States in accordance with 7 U.S.C. 2136 and 9 CFR sections 2.25 through 2.28. The Contractor shall furnish evidence of the registration to the **Contracting Officer**

NIH GRANTS POLICY STATEMENT

4.1.1 Animal Welfare Requirements









Requirements for research, research training, experimentation or biological testing for related purposes involving live vertebrate animals

- Animal Welfare Assurance for the applicant organization and all performance sites
- 2. A complete **Vertebrate Animals Section (VAS)**
- 3. <u>Verification</u> that the <u>IACUC has reviewed and approved</u> those sections of the application or technical proposal that involve the use of vertebrate animals







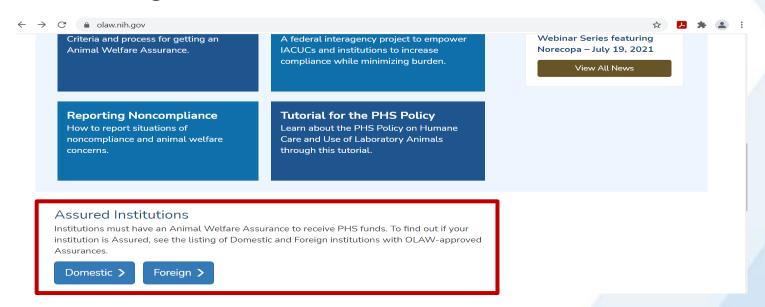
Animal Welfare Assurance

IV.A.1.g. "a synopsis of training or instruction in the humane practice of animal care and use, as well as training or instruction in research or testing methods that minimize the number of animals required to obtain valid results and minimize animal distress, offered to scientists, animal technicians, and other personnel involved in animal care, treatment, or use."



TYPES OF ANIMAL WELFARE ASSURANCES

- Domestic Assurance
- >Interinstitutional Assurance
- > Foreign Assurance



https://olaw.nih.gov/guidance/obtaining-an-assurance.htm



DOMESTIC ASSURANCE



https://www.amprogress.org/wp-content/uploads/2016/06/AMP_Fat-Rat-QR.pdf

- Domestic institution controls their own animal facilities
- Conducts animal research on-site
- Has a complete animal care and use program
 - ➤ Institutional Official (IO)
 - > IACUC
 - Veterinarian
- Requires PHS, NSF, NASA funding
- Requested by the funding component for negotiation
- Remains in effect for up to 4 years and can be renewed
- Assurance signed by Institutional Official (IO)



INTERINSTITUTIONAL ASSURANCE

- Awardee institution does not have an animal care and use program
- Animal work conducted at Assured Institution
- Valid for the life of the award, up to 5 years (project specific)
- Requires PHS, NSF, NASA funding
- Requested by the funding component for negotiation

FOREIGN ASSURANCE



- Foreign institution controls their own animal facilities
- Conducts animal research on-site
- Has an animal care and use program with institutional signing official
 - Guided by International Guiding Principles for Biomedical Research Involving Animals (CIOMS)
- Follows applicable governing laws, regulations and policies from the country of origin, listed on the Assurance document
- Requires PHS, NSF, or NASA funding
- Requested by the funding component for negotiation
- Remains in effect for up to 5 years and can be renewed
- Assurance signed by Institutional Official (IO)

CONSORTIUM AGREEMENTS: SUB-AWARDS



- Prime awardee is accountable and must ensure the following for all animal performance sites:
 - ➤ Assurance
 - ➤ IACUC approval (dated within 3 years)
- Animal welfare requirements apply to all consortium participants and sub-projects

Photo courtesy of Dr. Cathy Schuppli, DVM, MSc, PhD, University of British Columbia



Requirements for research, research training, experimentation or biological testing for related purposes involving live vertebrate animals

- 1. Animal Welfare Assurance for the applicant organization and all performance sites
- 2. A complete **Vertebrate Animals Section (VAS)**
- 3. <u>Verification</u> that the <u>IACUC has reviewed and approved</u> those sections of the application or technical proposal that involve the use of vertebrate animals



VAS TRAINING RESOURCES FOR APPLICANTS

Notices

Articles & References

Commentary

Frequently Asked Questions

Topic Index

Fast Facts

Departures from the Guide

Obtaining an Assurance

Reporting Noncompliance

Significant Changes

Vertebrate Animals Section

ARENA/OLAW IACUC Guidebook

Fast Facts

- Departures from the Guide
 Reporting requirements for deviations from the provisions of the Guide
- Obtaining an Assurance
 Criteria and process for getting an Animal Welfare Assurance
- Reporting Noncompliance
 How to report situations of noncompliance and animal welfare concerns
- Significant Changes
 How to handle significant changes to animal activities
- Vertebrate Animals Osstion

VAS requirements, checklist, and detailed instructions for applicants and reviewers

Policies and Laws
Guidance
Education
Resources

Home » Guidance » Vertebrate Animals Section

Vertebrate Animals Section

The following guidance is provided to assist applicants and offerors in preparing the Vertebrate Animals Section (VAS) for submission to the NIH, and to assist reviewers in evaluating the VAS of applicants and proposals. Here you will find an overview of the requirements, a checklist for applicants and reviewers, detailed instructions, and responsibilities of applicants, reviewers, and NIH staff.



We are pleased to announce the availability of a new <u>online training module</u> on the Vertebrate Animals Section (VAS) in grant applications.

We want to assist investigators and reviewers in recognizing both the required components of the VAS and the components that are no longer required, with the goals of:

- increasing the number of applications deemed acceptable
- reducing time spent submitting and reviewing extraneous information

This interactive module can be completed in 20 - 30 minutes and includes:

- an overview of the requirements
- a checklist for applicants and reviewers
- detailed instructions



https://olaw.nih.gov/guidance/vertebrate-animal-section.htm

Vertebrate Animals Section: 1st Criteria



Photo: https://www.amprogress.org/wp-content/uploads/2016/06/AMP White-Rat-QR.pdf

1) Description of Procedures

- •Provide a concise description of the proposed procedures
- •Identify the species, strains, ages, sex and total number of animals by species
- Provide the source of dogs and cats, if used



Photo: https://fbresearch.org/animal-research/

Vertebrate Animals Section: 2nd Criteria

2) Justifications

- •Provide justification that the species are appropriate for the proposed research
- •Explain why the research goals cannot be accomplished using an alternative model (e.g., computational, human, invertebrate, *in vitro*)



Photo courtesy of Dr. Cathy Schuppli, DVM, MSc, PhD, University of British

Vertebrate Animals Section: 3rd and 4th Criteria

3) Minimization of Pain and Distress

Describe the interventions including analgesia, anesthesia, sedation, palliative care and humane endpoints to minimize discomfort, distress, pain and injury

4) Method of Euthanasia

If investigators are proposing to use a method of euthanasia that is not consistent with AVMA guidelines, they must describe the method and provide a scientific justification.



Requirements for research, research training, experimentation or biological testing for related purposes involving live vertebrate animals

- 1. Animal Welfare Assurance for the applicant organization and all performance sites
- 2. A complete **Vertebrate Animals Section (VAS)**
- 3. <u>Verification</u> that the <u>IACUC has reviewed and approved</u> those sections of the application or technical proposal that involve the use of vertebrate animals



VERIFICATION OF IACUC APPROVAL

- An award for research involving live vertebrate animals will be delayed until the recipient organization and all performance sites have provided <u>verification</u> of IACUC approval
 - ➤ The date of IACUC approval must not be more than 36 months prior to receiving an award involving animals
- ➤ It is an <u>institutional</u> responsibility to ensure congruence between the grant or contract and the IACUC approved protocol
 - ➤ (HHSAR) solicitation provision <u>352.270-5a</u> and contract clause <u>352.270-5b</u>
 - ➤ NIH GPS <u>4.1.1.2</u> Verification of IACUC Approval
- ➤ <u>No costs</u> for activities with live vertebrate animals may be charged to the grant or contract if there is no Assurance and no valid IACUC approval



What Investigators Need to Know About the Use of Animals



What Investigators Need to Know About the Use of Animals

"Proper use of animals, including the avoidance or minimization of discomfort, distress, and pain when consistent with sound scientific practices, is imperative."

U.S. Government Principle 17, 1985

Principal Investigators are responsible for the scientific and technical aspects of a grant award and must ensure compliance with Public Health Service (PHS) Polley on Humane Care and Use Laboratory Animals (Policy) when using live vertebrate animals. PHS Policy incorporates the U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training, the Guide for the Care and Use of Laboratory Animals, and the American Veterinary Medical Association (AVMA) Guidelines for the Euthanasia of Animals. Vertebrate animals include traditional laboratory animals, farm animals, wildlife, and aquatic animals. Animal use encompasses research, teaching, or testing. Generation of custom antibodies is considered an activity involving vertebrate animals.

Who Must Comply With the PHS Policy?

The PHS Policy applies to extramural and intramural activities supported by any PHS agency, including the National Institutes of Health (NIH), the Food and Drug Administration, the Centers for Disease Control and Prevention, and the Department of Health and Human Services. All funding mechanisms, including research and training grants, cooperative agreements, and contracts, conducted at domestic and foreign institutions, are covered by the Policy. Additionally, activities conducted or supported by the Department of Veterans Affairs, the National Aeronautics and Space Administration, and the National Science Foundation are covered by the Policy under memoranda of understanding by these agencies with NIH.

Good animal care and good science go hand in hand.

What is an IACUC?

Institutional Animal Care and Use Committees (IACUCs) are local institutional committees with federally mandated oversight responsibilities, including:

- Reviewing animal-use protocols;
- Reviewing significant changes to protocols;
- Evaluating institutional compliance with PHS Policy, U.S. Department of Agriculture (USDA) Animal Welfare Act and Regulations, and institutional policies;
- Monitoring institutional animal care and use programs, including inspecting animal facilities;
- Reviewing concerns about animal care or use; and
 Reporting noncompliance and suspensions to the NIH Office of Laboratory Animal Welfare (OLAW).

Investigator Responsibilities

Investigators are accountable for the protection of the research animals in their care from the earliest stages of planning until a study is completed, including:

- Describing proposed use of animals in grant applications;
- Obtaining IACUC approval prior to using animals and prior to implementing significant changes;
- Ensuring research is conducted according to the protocol;
- Complying with institutional policies and procedures;
- Addressing significant changes to the use of animals in progress reports; and
- Addressing changes in the use of animals that may be a potential change in scope, including changes in performance site.

Applying for Funding

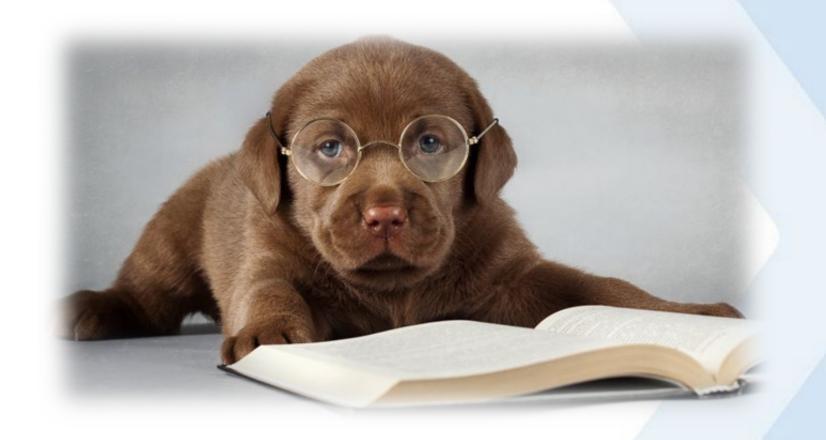
The proposed involvement of vertebrate animals is evaluated as part of the peer review process. Applicants must provide the following in grant applications:

- Concise description of the proposed procedures to be used that involve vertebrate animals, including species, strains, ages, sex, and total number of animals by species to be used.
- Justification that the species are appropriate for the proposed research and explanation why research goals can't be accomplished using an alternative model.
- Description of the interventions including analgesia, anesthesia, sedation, palliative care and humane endpoints to minimize discomfort, distress, pain and injury.
- Indication if the euthanasia method is consistent with AVMA Guidelines and a description of the method and scientific justification if it is not.

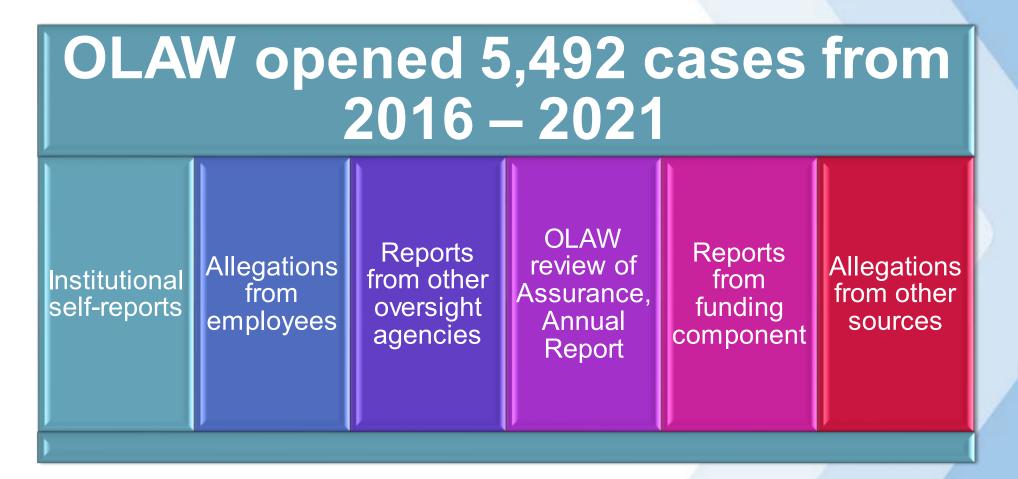




COMPLIANCE OVERSIGHT



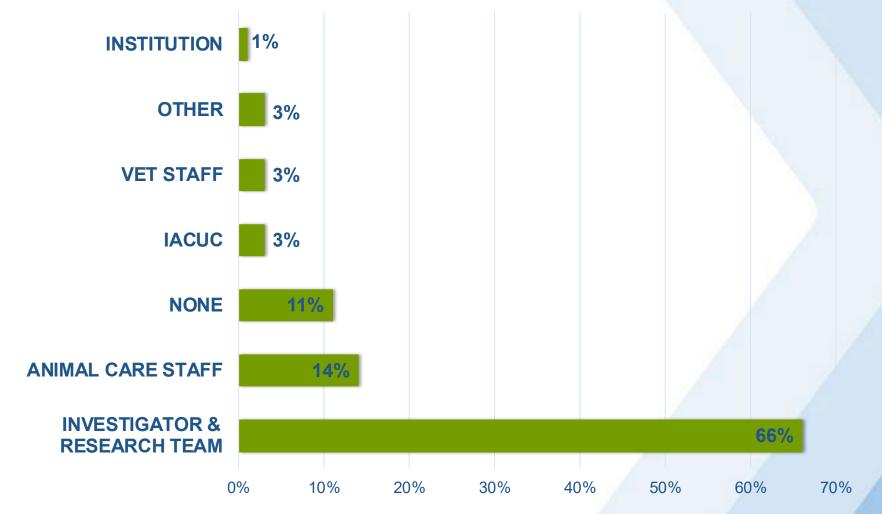
REPORTABLE ISSUES DATA ANALYSIS



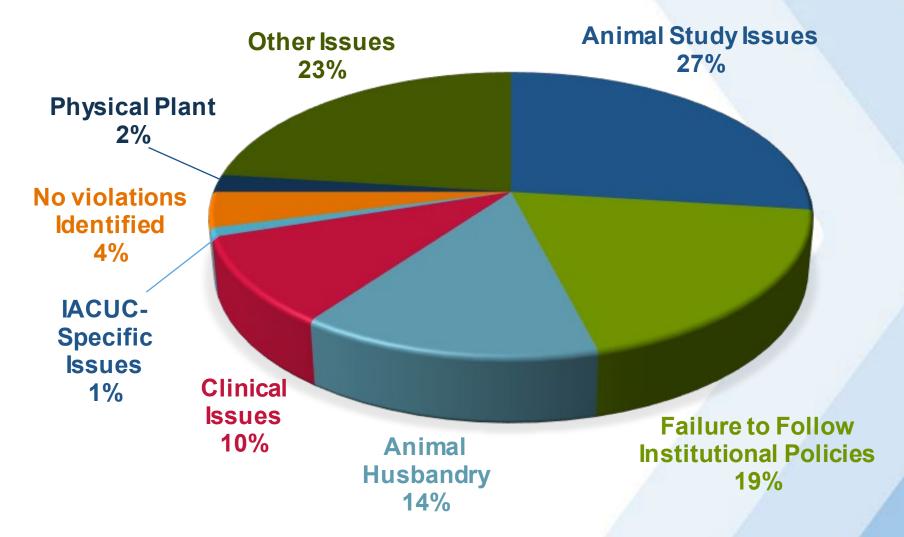
OLAW opened 966 cases in 2021



INDIVIDUALS RESPONSIBLE FOR REPORTABLE ISSUES



TYPES OF REPORTABLE INCIDENTS 2021



PREVENTING AVOIDABLE NONCOMPLIANCE

- Absence of a valid Assurance on file with OLAW
- Absence of valid IACUC approval
 - Failure to obtain IACUC approval for animal activity
 - Failure to obtain IACUC approval for significant changes prior to implementing
 - Continuing animal activities after IACUC approval has expired
 - Continuing animal activities after suspension of IACUC approval

IMPLICATIONS OF NONCOMPLIANCE

- Corrective actions and improved systems
- Restrict / withdraw approval of Assurance
- Special terms and conditions
- Cost disallowance
- Suspension / termination of award
- Criminal prosecution



REPORTING IS A COOPERATIVE PROCESS

✓ OLAW will provide assistance and guidance.

✓ Institution must demonstrate that corrective actions are being implemented.

✓ OLAW will evaluate appropriateness of the actions in correcting and preventing the reportable issue.

✓ Self-reporting is part of enforced self-regulation.



REPORTING NONCOMPLIANCE



Office of Laboratory Animal Welfare

Email OLAW, Division of Compliance Oversight at:

olawdco@mail.nih.gov

Call OLAW, Division of Compliance Oversight at:

• 301-594-2921 or 301-594-2061

Review OLAW's website on reporting noncompliance at:

<u>olaw.nih.gov/guidance/reporting-noncompliance.htm</u>



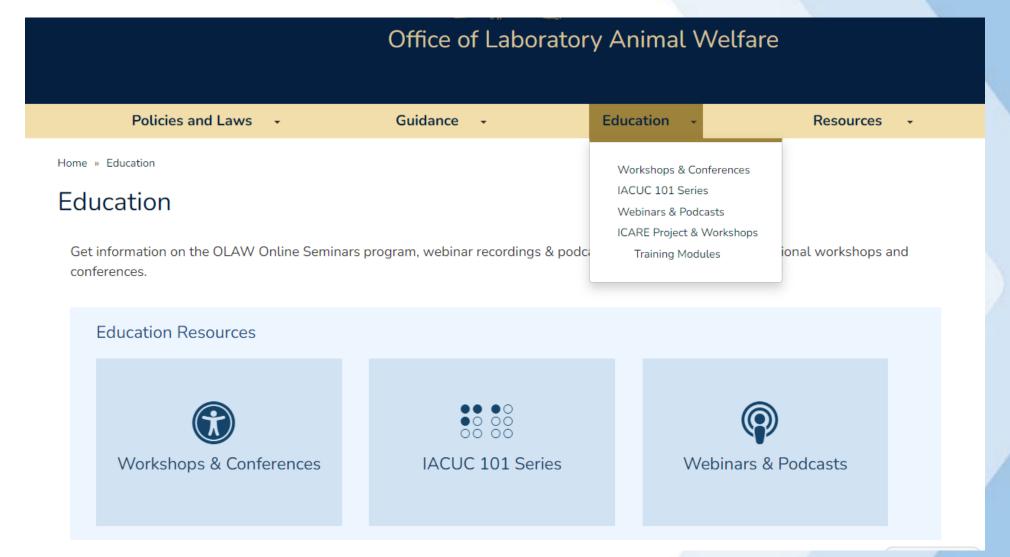
REDUCING REGULATORY BURDEN



https://olaw.nih.gov/21st-century-cures-act.htm



OLAW EDUCATIONAL RESOURCES



https://olaw.nih.gov/education



UPCOMING EDUCATIONAL OPPORTUNITIES

03/08/2023 Virtual	Animal Welfare Information Center (AWIC)	Meeting the Requirements of the Animal Welfare Act Workshop
05/03/2023 - 05/04/2023 Virtual	Animal Welfare Information Center (AWIC)	Meeting the Requirements of the Animal Welfare Act Workshop
06/08/2023 New York, NY	Scientists Center for Animal Welfare (SCAW)	IACUC Training Workshop



TRIVIA TIME!



SCENARIO 1 – PART 1

Bob's Biotech (BB) will be the awardee for an award involving animal research.

BB does not have their own animal facility but has made preliminary plans with *Lark University* to conduct the animal studies in Lark University's facility.

What are the requirements for the contract to allow the animal activities to proceed?

- A. Completed VAS for animal work to be conducted at Lark University
- B. List Lark University as a performance site
- C. Both sites need an Assurance (Lark University needs a Domestic Assurance, Bob's need an IA with Lark University)
- D. IACUC approval from Lark University

 All of the above



SCENARIO 1 – Part 2

Lark University is no longer able to conduct the agreed upon studies so Bob's Biotech identifies BioCorps, a U.S. contract research organization, as the new animal performance site.

What is necessary?



Nothing. The funds were already dispersed, and changes happen all the time with science



Bob's Biotech must inform the funding component to obtain approval for a change in animal performance site

BioCorps must have an approved Domestic Assurance

Bob's Biotech must have an approved Interinstitutional Assurance with BioCorps who provides verification of IACUC approval

SCENARIO 2

The PI at Research Inc. indicates that she will not be performing any animal activities but in the application she indicates she will be obtaining custom rabbit antibodies from Alpha Omega Enterprises.

What are the requirements for the grant to allow the animal activities to proceed?

- A. Complete VAS for Research Inc. animal activity
- B. List Alpha Omega as a performance site
- C. Both sites need an Assurance (Domestic for Alpha Omega and IA for Research Inc.)
- D. IACUC approval from Alpha Omega All of the above



SCENARIO 3

Beaker Scientific, Inc. is submitting an application and completed the VAS for a contract for research involving animals. The animal activity will be conducted at Expert Bio., a CRO. Expert Bio has an Assurance on file with OLAW. The PI, Dr. Beaker, says Beaker Scientific has a Memorandum of Understanding (MOU) with Expert Bio in place and he is ready to conduct the research when he receives the award.

What are the requirements for the grant to allow the animal activities to proceed?

- A. Dr. Beaker is correct because he has a MOU
- Dr. Beaker will need an Interinstitutional Assurance through OLAW and IACUC approval
 - C. Dr. Beaker will need IACUC approval with the MOU
 - D. Dr. Beaker will only need an Interinstitutional Assurance through OLAW



SCENARIO 4

Dr. Rhinder is working on conducted an exciting new study looking at the effect of a chemotherapeutic agent in zebrafish. When submitting the contract application, he is unsure if he should check "yes" or "no" for live vertebrate animal use and he calls you for help. How would you advise him?

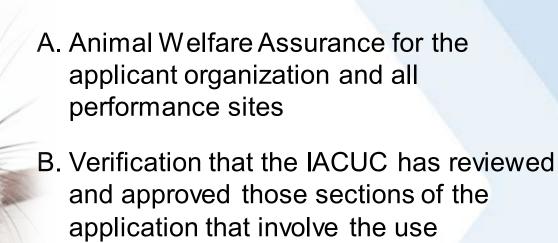


Yes, all zebrafish would be considered vertebrate animals B. No, because they are not a "warm-blooded" species C. Is this a trick question?

PHS Policy does apply to zebrafish larvae from immediately after hatching (typically 3 days post fertilization [dpf] under optimal conditions)



The PHS Policy, NIH GPS and HHSAR requirements when making an award involving live vertebrate animals include:



of live vertebrate animals

C. A completed Vertebrate Animals Section (VAS) in the application

All of the above

Photo: https://www.amprogress.org/wp-content/uploads/2016/06/AMP_Fat-Rat-QR.pdf

PHS Policy Elements

Information Required in Applications and Proposals for Awards Submitted (IV.D.)

- Identification of the species and approximate number of animals to be used;
- 2. The rationale for involving animals, and for the appropriateness of the species and numbers used
- A complete description of the proposed use of the animals;
- 4. A description of procedures designed to assure that discomfort and injury to animals is limited, and that analgesic, anesthetic, and tranquilizing drugs will be used where indicated;
- 5. A description of any euthanasia method to be used.





1. Description of procedures (describe animals and their use):

Pharmacokinetic studies and surgical procedures will be performed on mice at a Contract Research Organization (CRO) that is yet to be determined. 100 mice will be used in total.

2. Justifications (describe choice of species and lack of alternative model):

Mice are inexpensive and are one of the least sentient laboratory animals.

3. Minimization of Pain and Distress (describe interventions):

Moribund mice will be examined by the veterinarian and decisions on disposition will be made at that time.





1. Description of procedures (describe animals and their vertex)

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- ✓ Discuss IACUC verification requirements
- ✓ Understand compliance oversight requirements
- √21st Century Cures Information
- √ Additional educational opportunities



OLAW OFFICE CONTACT DETAILS

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 olaw@mail.nih.gov
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- Division of Compliance Oversight olawdco@mail.nih.gov
- Division of Policy and Education olawdpe@mail.nih.gov

OLAW Website: https://olaw.nih.gov





OUR CONTACT DETAILS

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Nicole.Lukovsky@NIH.gov

Q&A Session



Connect with SEED



Online

http://seed.nih.gov/



Email us

SEEDinfo@nih.gov



@nihseed

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