

Annual Report to OLAW

Institution: The University of Chicago
Assurance Number: D16-00322 (A3523-01)
Reporting Period: 10/01/2020 – 09/30/2021

This institution's Institutional Animal Care and Use Committee (IACUC), through the Institutional Official, provides this annual report to the Office of Laboratory Animal Welfare (OLAW).

I. Program Changes

- ☐ A. There have been **no changes** in this institution's program for animal care and use as described in the Assurance.
- ☒ B. Change(s) in this institution's program for animal care and use as described in the Assurance have occurred during this reporting period.

Select all that apply:

- ☐ This institution's AAALAC accreditation status has changed ([PHS Policy IV.A.2.](#)).
- ☐ [AAALAC Accredited](#) – Category 1
- ☐ Non-Accredited – Category 2
- ☒ This institution's program for animal care and use has changed ([PHS Policy IV.A.1.a-i.](#)).
- ☐ The individual designated by this institution as the Institutional Official has changed.
- ☒ The membership of this institution's IACUC has changed.

II. Semiannual Evaluations

This IACUC has conducted semiannual evaluations of the institution's program and inspections of the institution's facilities (including satellite facilities) on the dates below. Reports of the evaluations and inspections have been submitted to the Institutional Official. The reports include any IACUC-approved departures from the *Guide* with a reason for each departure, any deficiencies (significant or minor) that were identified, and a plan and schedule for correction of each deficiency.

A. Program Evaluations

Date 1: 04/29/2021	Date 2: 10/28/2021
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B. Facility Inspections

Date 1: October 2020 through March 2021 (see attached Section II.B Facility Inspections Addendum)	Date 2: April 2021 through September 2021 (see attached Section II.B Facility Inspections Addendum)
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III. Minority Views

- ☒ A. There were **no minority** views during this reporting cycle.
- ☐ B. Any minority views submitted by members of the IACUC regarding reports filed under [PHS Policy IV.F.](#) for this reporting cycle are attached.

IV. Signatures

IACUC Chairperson	Institutional Official
Name: Catherine Reardon-Alulis, PhD	Name: Kenneth S. Polonsky, MD
<div>Signature: Catherine Reardon Alulis</div> <div><small>Digitally signed by Catherine Reardon Alulis DN: cn=Catherine Reardon Alulis, o, ou, email=reardon@uchicago.edu, c=US Date: 2021.11.11 08:08:08 -06'00'</small></div>	<div>Signature: Kenneth S. Polonsky</div> <div><small>Digitally signed by Kenneth S. Polonsky Date: 2021.11.19 11:50:49 -06'00'</small></div>
Date: 11/11/2021	Date: 11/19/21

V. Change in Institutional Official

Name:	
Title:	Degree/Credentials:
Name of Institution:	
Address:	
Phone:	Fax:
E-mail:	

VI. Change in IACUC Membership

Institution: The University of Chicago			
IACUC Contact Information			
Address: The University of Chicago Institutional Animal Care and Use Committee 5841 S. Maryland Avenue, MC1030 Chicago, IL 60637			
E-mail: iacuc@uchicago.edu			
Phone: (b) (6)		Fax:	
IACUC Chairperson			
Name: Catherine Reardon-Alulis			
Title: Research Professor		Degree/Credentials: PhD	
PHS Policy Membership Requirements***: Scientist			
IACUC Roster			
Name of Member/ Code*	Degree/ Credentials	Position Title/ Occupational Background**	PHS Policy Membership Requirements***
(b) (6)			Scientist
			Scientist
			Scientist
			Scientist
George Langan	DVM	Professor, Attending Veterinarian	Veterinarian
(b) (6)			Veterinarian
			Non-Affiliated / Non- Scientist
			Veterinarian
			Scientist
			Alternate (Scientist)
			Alternate (Veterinarian)
			Non-Voting

* Names of members, other than the chairperson and veterinarian, may be represented by a number or symbol in this report to OLAW. Sufficient information to determine that all appointees are appropriately qualified must be provided and the identity of each member must be readily ascertainable by the institution and available to authorized OLAW or other PHS representatives upon request.

** List specific position titles for all members, including nonaffiliated (e.g., banker, teacher, volunteer fireman; not "community member" or "retired").

*** [PHS Policy](#) Membership Requirements:

<i>Veterinarian</i>	veterinarian with training or experience in laboratory animal science and medicine or in the use of the species at the institution, who has direct or delegated program authority and responsibility for activities involving animals at the institution.
<i>Scientist</i>	practicing scientist experienced in research involving animals.
<i>Nonscientist</i>	member whose primary concerns are in a nonscientific area (e.g., ethicist, lawyer, member of the clergy).
<i>Nonaffiliated</i>	individual who is not affiliated with the institution in any way other than as a member of the IACUC and is not a member of the immediate family of a person who is affiliated with the institution. This member is expected to represent general community interests in the proper care and use of animals and should not be a laboratory animal user or former user. A consulting veterinarian may not be considered nonaffiliated.

Statement of Burden

Public reporting burden for this collection of information is estimated to average 90 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA (0925-0765). Do not return the completed form to this address.

2021 OLAW Annual Report Addendum

Section I.B Program Changes:

The University of Chicago did not receive NASA funding and did not utilize the International Space Station for research involving live vertebrate animals.

The highlighted sections of the approved Assurance excerpts indicate the changes to the Institution's Program for Animal Care and Use during the report period of October 1, 2020 through September 30, 2021. Changes include updates regarding veterinary staff, training requirements and organizational chart.

Section I. Applicability of Assurance (page 1 of approved assurance)

This Assurance applies whenever this Institution conducts the following activities: all research, research training, experimentation, biological testing, and related activities involving live vertebrate animals supported by the PHS, DHHS, and/or NSF (if applicable). This Assurance covers only those facilities and components listed below.

- A. The following are branches and components over which this Institution has legal authority, included are those that operate under a different name: All components of the University of Chicago (Colleges, Schools, Centers, etc.). All of these components are physically located on the university's campus in Chicago, Illinois. Also covered are the UC facilities at the Howard T. Ricketts Laboratory (HTRL) at the Argonne National Laboratory (Lemont, Illinois), approximately 25 miles from campus. There are no other off-campus satellite facilities and/or other covered components.
- B. The following are other institution(s), or branches and components of another institution: The Field Museum of Natural History for the purpose of National Science Foundation (NSF) Grant 2010989 entitled *NSF Postdoctoral Fellowship in Biology FY2020*.

Section III. Institutional Program for Animal Care and Use (page 2-6 of approved assurance)

- B. The qualifications, authority, and percent of time contributed by the veterinarian(s) who will participate in the program are as follows:
 - a. Name: George Langan, DVM, DACLAM
Attending Veterinarian, Director of the Animal Resources Center and Associate Dean of Research Resources.
Professor, Department of Surgery.

Qualifications

- Degrees: DVM, University of Illinois, 1996
- Training or experience in laboratory animal medicine or in the use of the species at the institution: Dr. Langan obtained his veterinary degree from University of Illinois in 1996 and worked in a small animal practice for one year after graduation. He completed a residency in laboratory animal medicine at the University of Tennessee-Knoxville in 1999. He came to The University of Chicago as a Clinical Veterinarian for Large Animal Clinical Services. He was

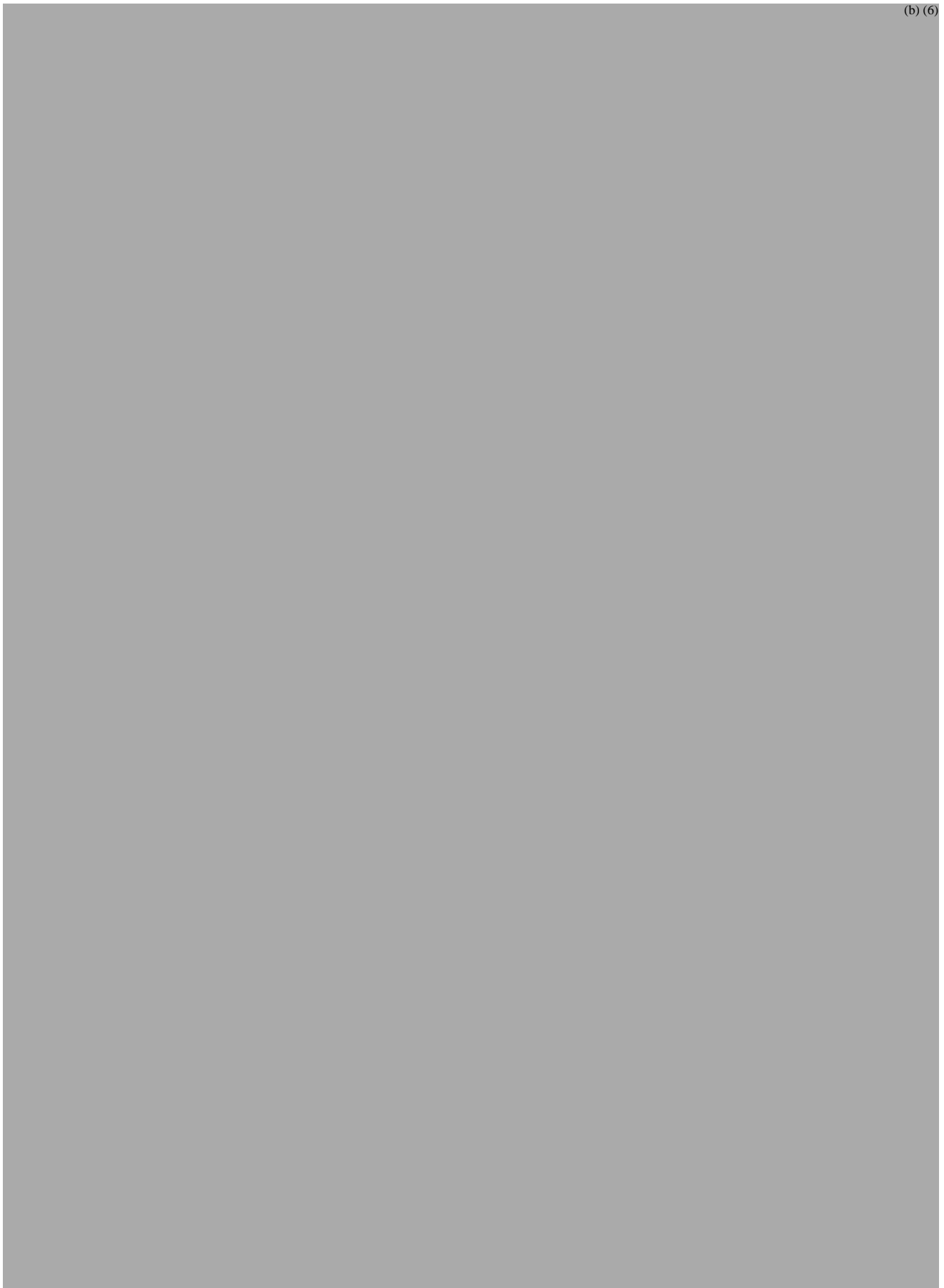
appointed Attending Veterinarian in 2001, board-certified by the American College of Laboratory Animal Medicine in 2002 and appointed Director of the Animal Resources Center in 2003. In 2016 he was promoted to Associate Dean of Research Resources, managing both the Animal Resources Center and the Office of Shared Research Resources.

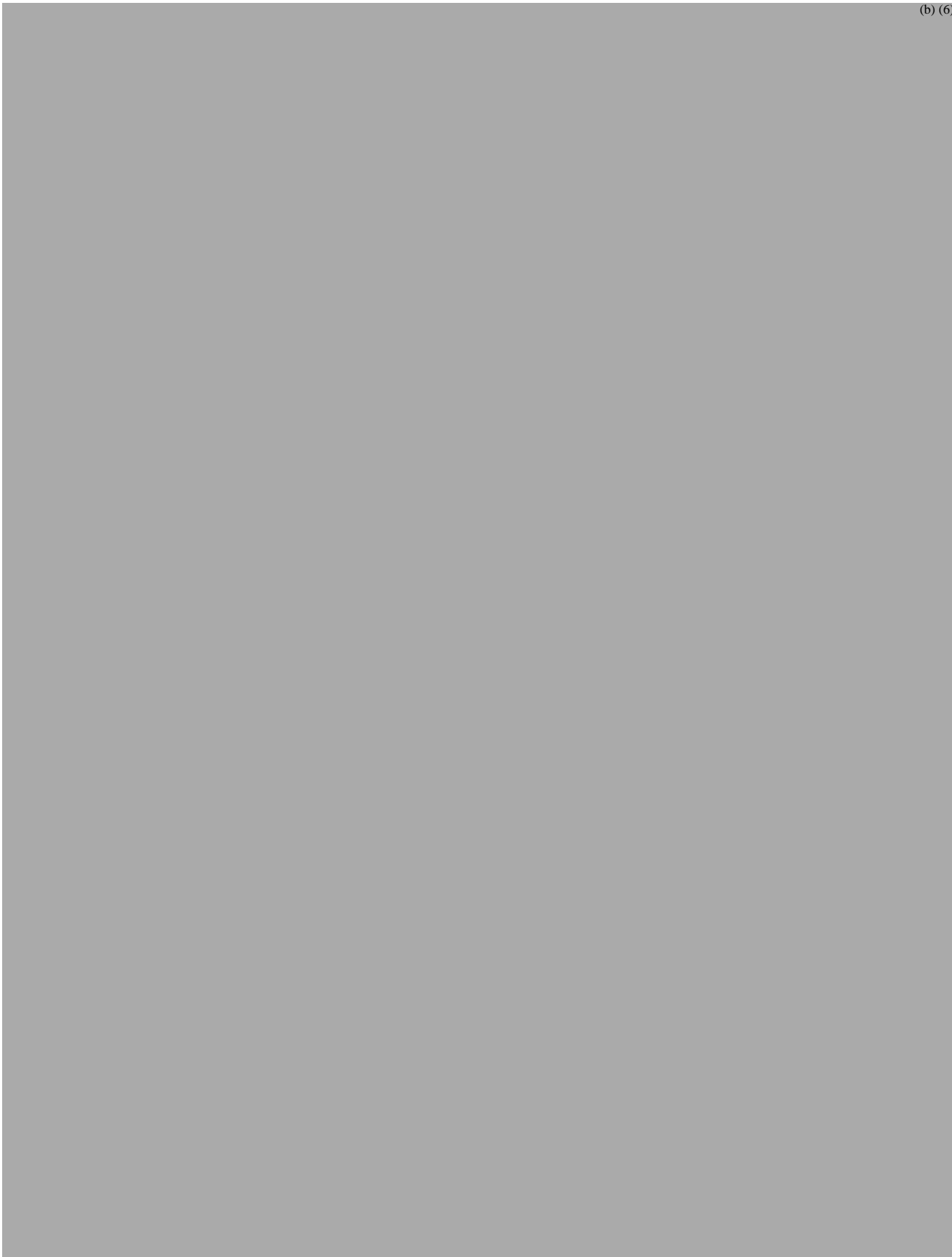
Authority: Dr. Langan has direct program authority and responsibility for the Institution's animal care and use program including access to all animals. He is a voting member of the IACUC and Select Agent IBC.

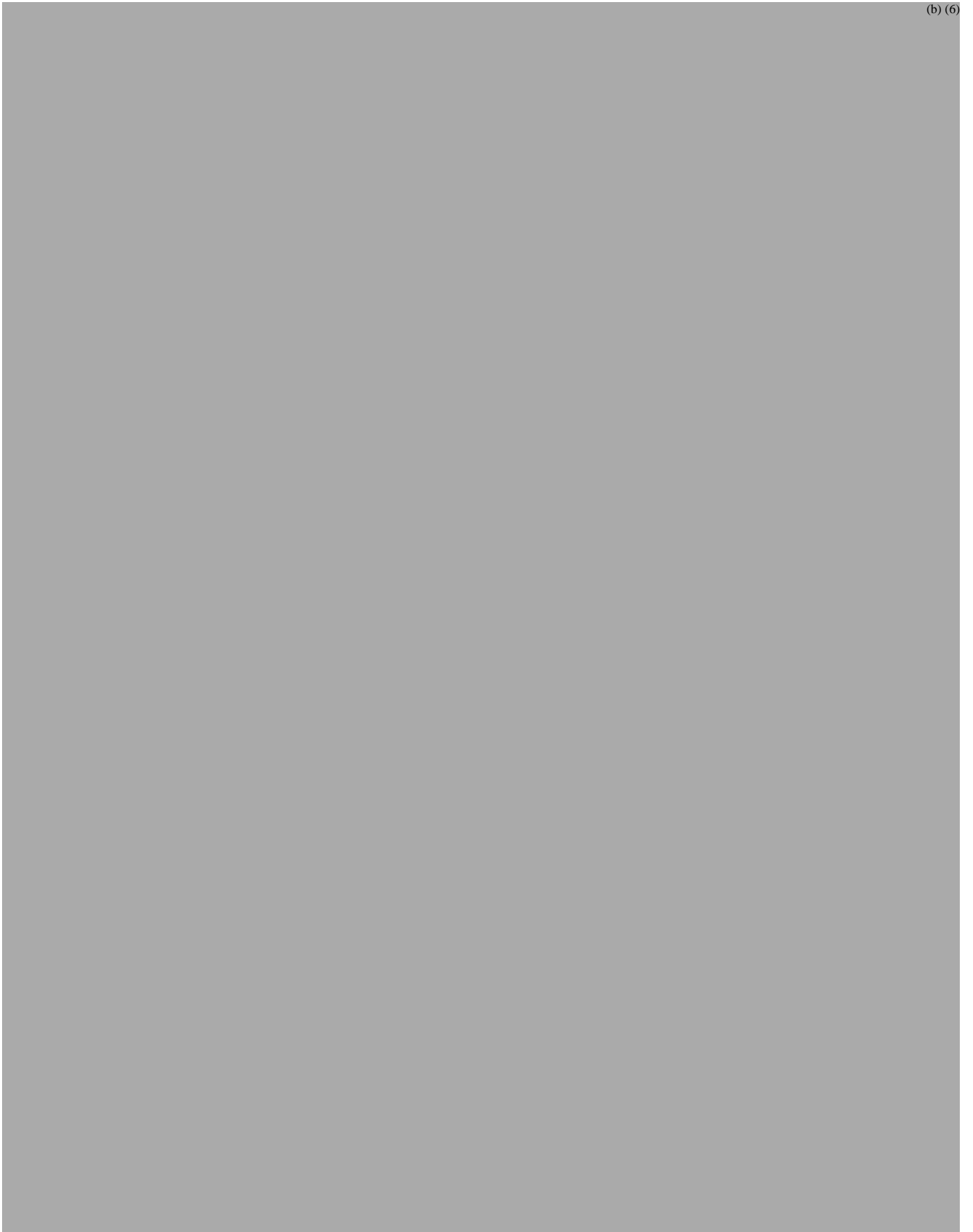
Time contributed to program: Dr. Langan is a full time employee and devotes 100% of his time to supporting the animal care and use program of the institution.

(b) (6)











Pages 26-28 of Approved Assurance:

1. Training for those using and caring for animals

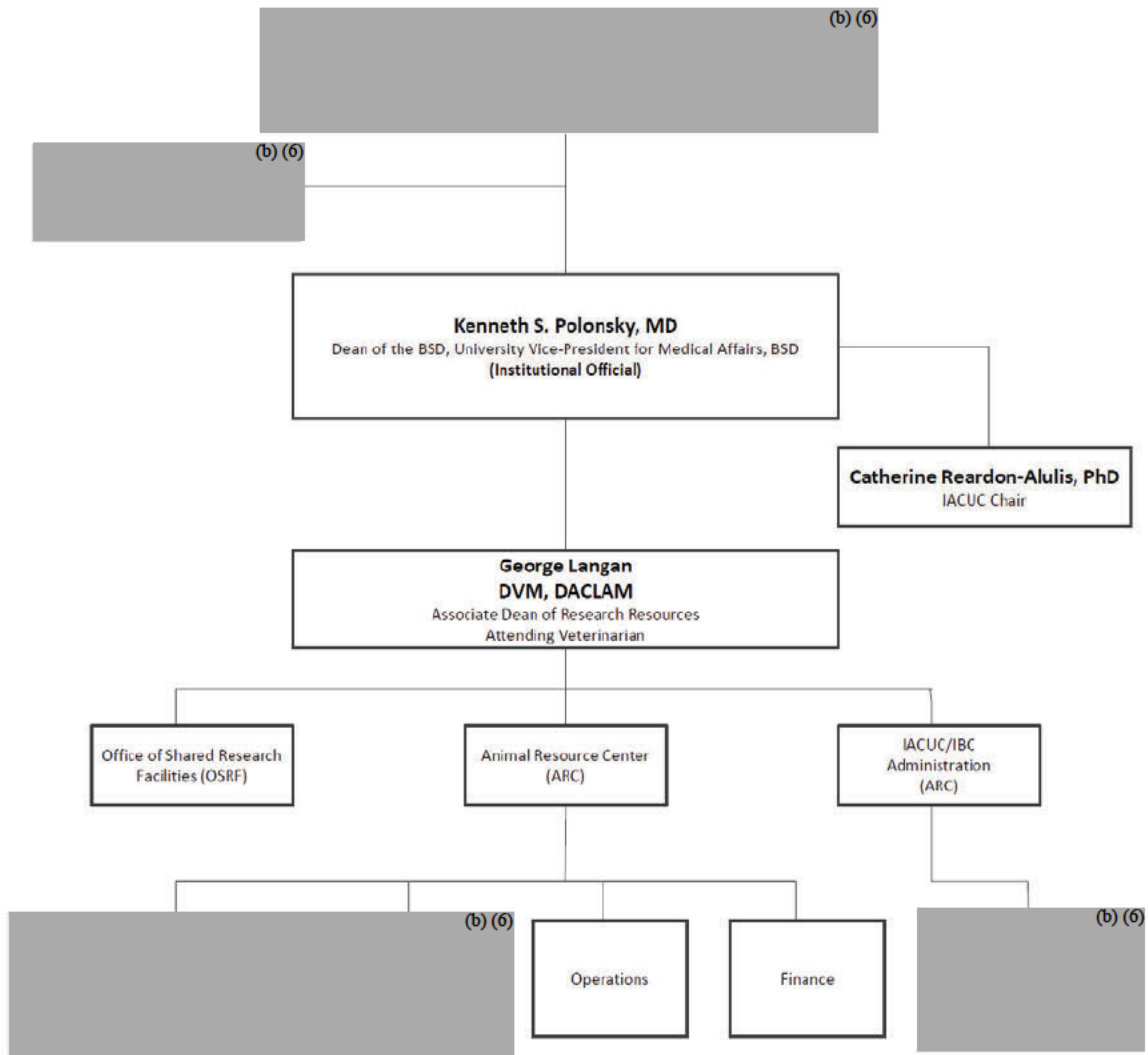
- All personnel involved in animal care and/or use are aware of this Assurance and its contents during training.
- The IACUC verifies that personnel involved in animal care and/or use have adequate training and are qualified to perform their duties based on the mandatory training for being on the IACUC protocol and through indication of the number of years of experience with the species and procedures to be performed. As applicable, observations of procedures by veterinarians are conducted.
- The training includes training or instruction on research or testing methods that minimize the numbers of animals required to obtain valid results and limit animal pain or distress as well as other requirements delineated in 9 CFR, Part 2, Subpart C, Section 2.32(c). Specifically, as applicable, training and instruction of personnel includes guidance in at least the following areas:
 1. Humane methods of animal maintenance and experimentation, including:
 - a. The basic needs of each species of animal;
 - b. Proper handling and care for the various species of animals used by the facility;
 - c. Proper pre-procedural and post-procedural care of animals; and
 - d. Aseptic surgical methods and procedures;
 2. The concept, availability, and use of research or testing methods that limit the use of animals or minimize animal distress;
 3. Proper use of anesthetics, analgesics, and tranquilizers for any species of animals used by the facility;
 4. Methods whereby deficiencies in animal care and treatment are reported, including deficiencies in animal care and treatment reported by any employee of the facility. No facility employee, Committee member, or laboratory personnel shall be discriminated against or be subject to any reprisal for reporting violations of any regulation or standards under the Act.
 5. Utilization of services (e.g., National Agricultural Library, National Library of Medicine) available to provide information:
 - a. On appropriate methods of animal care and use;
 - b. On alternatives to the use of live animals in research;
 - c. That could prevent unintended and unnecessary duplication of research involving animals; and
 - d. Regarding the intent and requirements of the Animal Welfare Act and USDA-APHIS Regulations
- Animal Care and Use Regulations – The Role of the IACUC, ARC and You – This manual describes the roles of the IACUC, ARC and Principal Investigator/Staff in the use of research animals at the University of Chicago as well as the regulatory agencies and principles that reflect the special care that must be taken in animal research. It also contains a complete listing of all IACUC approved Policies and Guidelines and where to access them.

- General Orientation to Animal Use – Provides an orientation to IACUC, animal regulations, ACUP approval process, and whistleblower policy. Information is also presented about the Animal Resources Center, specifically what services are available, how to get access, and how to order animals. Information on occupational health concerns and other safety committee approvals that may be needed with animal work are presented. The orientation is designed to present the basic information required by the Guide. This is an on-line tutorial that requires passage of a quiz at the end.
- Occupational Health and Safety Module and Quiz – This on-line AALAS Learning Library course discusses how to enroll in the occupational health and safety program and discusses animal related occupational health concerns such as bites/scratches, Herpes B virus, allergens, zoonoses, waste anesthetic gases, and working with hazardous materials. This tutorial requires passage of a quiz at the end.
- Occupational Health and Safety Questionnaire – A health questionnaire complete and then reviewed by the University of Chicago Occupational Medicine office. They clear employees for animal work and report this back to the IACUC office.
- Aseptic Surgery Module (rodent surgeries only) – This is an on-line AALAS Learning Library course on Aseptic Techniques for Rodent Survival Surgery. It covers how to prepare the surgical area, instruments, and animals for survival surgery. This tutorial requires passage of a quiz at the end.
- Rodent Euthanasia – This AALAS Learning Library on-line tutorial discusses the appropriate methods for rodent euthanasia with emphasis on the use of CO₂ euthanasia. A video demonstration of the proper technique for CO₂ euthanasia is included. Completion of a quiz is required at the end of the training.
- Nonhuman Primate Orientation – This orientation provides information on how to work safely with nonhuman primates. Part I of the orientation is an on-line tutorial that involves viewing the video “Working Safely with Nonhuman Primates in Biomedical Research”. Part II involves a discussion of the appropriate PPE to use when working with these animals, nonhuman primate behaviors, primate-specific zoonoses, and possible routes of exposure. Part III involves a hands-on demonstration in the facility of the PPE for working with nonhuman primates and how to respond if an NHP exposure via bite/scratch/splash exposure occurs.
- Herpes B Virus and Bite Scratch Refresher Training – This annual refresher training is provided by **an on-line tutorial**. It covers how to respond to a bite or scratch from an animal and specifically what to do in the event of an exposure to a nonhuman primate.
- Nonhuman Primate Tissue Handling Orientation – Anyone who is working with nonhuman primate tissues (not live animals) is required to take this orientation course given by an ARC veterinarian. It includes information on how to safely handle these tissues to prevent zoonotic disease transmission and how to respond to an exposure.
- Prior to being given access to centrally managed facilities:
 - a. Working with Rodents in the ARC – This on-line tutorial provides information on how to work in a rodent barrier facility at U of C. It covers information related to barrier policies and

procedures, PPE, barrier equipment and caging, colony health monitoring (if applicable), and ARC procedures on care and monitoring of animals.

- b. Barrier Facility First Visit or Facility Tour – This orientation is provided for each specific facility either by on-line virtual tour or in-person by the facility supervisor. It involves a tour and training regarding entry requirements for the facility, procedures for working in the animal and procedure rooms, the location of the places such as morgues and spill kits, and a description of the various procedures and documentation used in the facility.
- c. Carlson Surgical Clinic Orientation – This orientation covers how to work and schedule surgeries in the clinic, proper attire and procedures for the Clinic, and the different uses for the surgical rooms in the Clinic.

Appendix A
Organizational Chart



Section II.B Facility Inspections:

After the inspections in September 2020, the University of Chicago moved to performing monthly facility inspections. The facilities were inspected as follows:

Month	Facility	Dates	Month	Facility	Dates
October 2020	(b) (4)	09/28	April 2021	(b) (4)	04/20
		09/28			04/23
		09/29			04/22
November 2020		11/23	May 2021		05/25
		11/17			05/17, 05/18
December 2020		12/04, 12/11	June 2021		06/07
		12/14			06/09, 06/18
January 2021		01/19, 01/25	July 2021		07/21, 07/29
		01/29			07/21
		01/25, 01/27			07/21, 07/29
February 2021		02/15, 02/17, 02/23, 02/24, 02/25, 02/26	August 2021		08/18, 08/20, 08/24, 08/26
					08/26
March 2021		03/24, 03/29	September 2021		09/22, 09/30
		03/18			09/20
	03/25				