



DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY MEDICAL RESEARCH AND DEVELOPMENT COMMAND
810 SCHREIDER STREET
FORT DETRICK, MARYLAND 21702-5000

June 3, 2019

(b) (6)

Vice Chancellor for Research
University of California, Davis

(b) (6)

Davis, CA 95616

Dear (b) (6)

(b) (6), Deputy Director and (b) (6), Animal Program Oversight Specialist, Animal Care and Use Review Office, Office of Research Protections, U.S. Army Medical Research and Development Command, conducted a site visit to the University of California, Davis on 29 May 2019 to evaluate the animal care and use program and the animal care facilities. Participating individuals and results of the site visit are outlined in the enclosed checklist.

This AAALAC International-Accredited Animal Care and Use Program is compliant with federal Animal Welfare Regulations and the recommendations of the Guide for the Care and Use of Laboratory Animals (Institute for Laboratory Animal Research). The strong collegial culture at the institute was impressive.

The Animal Care and Use Review Office recommends continued funding of the supported animal research to appropriate Department of Defense agencies.

The point of contact for this action is the undersigned at (b) (6) or (b) (6)

Sincerely,

(b) (6)

Director, Animal Care and
Use Review Office

Enclosure
CC (w.encl):

(b) (6) [REDACTED], Assistant to the IO, University of California, Davis
(b) (6) [REDACTED], Protocol PI, University of California, San Diego
(b) (6) [REDACTED], Assistant Director of the IACUC, University of California, Davis
(b) (6) [REDACTED], Attending Veterinarian, University of California, Davis
(b) (6) [REDACTED], Science Officer, CDMRP
(b) (6) [REDACTED], Contract Specialist, CDMRP



COMPONENT OVERSIGHT OFFICE (COO) VISIT CHECKLIST

| | | | |
|-------------------|-------------|-----------------------|--|
| Site/Visit Type: | Extramural | Site Visited: | University of California, Davis |
| Date(s) Of Visit: | 29 May 2019 | Award and Protocol #: | Award: (b) (4) Protocol: [REDACTED] |
| Award PI Name: | (b) (6) | Awarded Organization: | University of California, San Diego |
| Funding Agency: | CDMRP | Species Approved: | NHPs |
| Protocol PI Name: | (b) (6) | Site Visitors: | (b) (6) |
| Protocol Title: | (b) (4) | | |

I. Names and titles of personnel present at in- and out-brief:

| NAME | TITLE OR DEPARTMENT |
|------------------|--|
| (b) (6) (in/out) | Executive Director of UC Davis Teaching and Research Animal Care Program |
| (b) (6) (in) | Assistant Director, colony Management and Research Services |
| (b) (6) (in/out) | Laboratory Manager |
| (b) (6) (out) | Senior Veterinary Manager |
| (b) (6) (out) | Occupational Health and Safety Officer |
| | |
| | |
| | |
| | |

II. IACUC Membership and Function:

| | A | MD | SD | N/A |
|---|---|----|----|-----|
| a. Appropriate constitution (at least 5 required members, or 3 required members if not PHS Assured) | X | | | |
| b. Non-affiliated members (NAM) attend meetings regularly | X | | | |
| c. Member appointments available and current | X | | | |
| d. IACUC member training program in place | X | | | |
| e. Appropriate documentation of IACUC training for all members to include alternates | | X | | |

¹ A-acceptable MD- minor deficiencies SD- significant deficiencies



COMPONENT OVERSIGHT OFFICE (COO) VISIT CHECKLIST

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|---|---|--|--|---|
| f. Mechanism in place for reporting welfare concerns | X | | | |
| g. IACUC function document (SOP/Policy/Instruction) | X | | | |
| h. Instructions for reporting concerns prominently displayed throughout the facility | X | | | |
| i. Reported concerns were well investigated by the IACUC | X | | | |
| n. Adverse events, violations, and animal welfare concerns reported to COO and documented in file | | | | X |
| j. If part-time AV, written program of veterinary care including regularly scheduled visits to the facility | | | | X |

Comments:

e. The IACUC had developed an IACUC training tracking sheet that adequately lists all required IACUC training as outlined in the IACUC function policy. However, documentation on the tracking sheets were incomplete for multiple IACUC members. It was difficult to determine if some IACUC members had completed their training requirements. Also, some training certificate dates did not match their respective training completion dates on the IACUC training tracking sheet. Recommend accurate documentation on the IACUC training tracking sheet to correctly reflect each individual's training record. *Guide for the Care and Use of Laboratory Animals, Eighth Edition, Chapter 2, Page 15, "should"*.

i. No welfare concerns were reported for DoD-funded projects; however, concerns reported on non-DoD-funded studies are thoroughly discussed in IACUC minutes and appear to be well investigated by the Committee.

III: IACUC Minutes and Protocol Review:

| | A | MD | SD | N/A |
|---|---|----|----|-----|
| a. Attendance records maintained either in minutes or elsewhere | X | | | |
| b. Quorum present at each meeting | X | | | |
| c. Minutes demonstrate IACUC business other than protocol review | X | | | |
| d. Documentation in minutes or elsewhere of protocol review details | X | | | |
| e. Dissenting opinions included and explained | X | | | |
| f. IACUC documents and protocol records maintained for at least 3 years | X | | | |
| g. Protocols contain sufficient detail | X | | | |
| h. Annual protocol reviews conducted and documented | X | | | |
| i. Scientific justification for exceptions to AWARs and the Guide present in applicable protocols | X | | | |
| j. COO approval documents included in protocol files | X | | | |
| k. Appropriate keywords used for databases searched | X | | | |

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Comments:

Minutes reviewed: 02 May 2019, 18 April 2019, 4 April 2019, 30 June 2016 (protocol approved)

General: Minutes were well written and included sufficient details of the protocol review process as well as other IACUC business.

IV: Semi-Annual Facility Inspection and Program Review (FIPR):

| | A | MD | SD | N/A |
|--|---|----|----|-----|
| a. FIPRs conducted and reports generated at least every six months | X | | | |
| b. At least two members participated in every area of the FIPR | X | | | |
| c. Non-affiliated member participation | X | | | |
| d. Deficiencies appropriately classified as minor or significant | X | | | |
| e. Report includes a reasonable and specific plan for correction of each deficiency with correction deadlines | X | | | |
| f. Individual responsible for correction of each deficiency identified | | | | X |
| g. Report identifies all locations visited during the facility inspection and areas of the program reviewed | X | | | |
| h. Departures from the provisions of the AWARs and the Guide are identified and justified | X | | | |
| i. Minority opinions are addressed | X | | | |
| j. Reports are signed by majority of IACUC members | X | | | |
| k. Documentation indicating reports are forwarded to IO | X | | | |
| Dates of FIPR reports reviewed: 24 January 2019 (July 1 – December 31, 2018), 26 July 2018 (January 1 – June 30, 2018), 25 January 2018 (July 1 – December 31, 2017) | | | | |
| Comments: | | | | |

V: General:

| | A | MD | SD | N/A |
|---|---|----|----|-----|
| a. Up-to-date listing of all SOPs, including most recent review date in accordance with SOP | X | | | |
| b. Comprehensive Disaster Plan in place that covers animal disposition and prioritization? | X | | | |
| c. Disaster Plan identifies essential personnel | X | | | |
| d. Disaster Plan part of the institution's overall emergency response program | X | | | |



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|--|---|--|--|---|
| e. Comprehensive occupational health and safety (OHSP) plan in place | X | | | |
| f. All staff members, to include contractors, evaluated as part of the OHSP. If not, procedures are in place to ensure individuals not included in the OHSP have alternative means of evaluation | X | | | |
| g. Acceptable Psychological Well-Being Plan for NHPs in place, if applicable | X | | | |
| h. Acceptable Exercise Plan for Dogs in place, if applicable | | | | X |
| i. Environmental Enrichment Plan covers all species | X | | | |
| j. Mechanism in place to assure all protocol personnel have been trained to perform their role | X | | | |
| k. Training records match the training requirements of the institution and IACUC | X | | | |
| Comments: c. Some personnel listed in the disaster plan no longer work for the University. Recommend updating the disaster plan contact list to reflect current personnel. k. Study personnel training is up to date; training was performed and tracked in the (b) (4) | | | | |

V. FUNDED ANIMAL WORK:

| EXTRAMURAL SITES ONLY | A | MD | SD | N/A |
|--|---|----|----|-----|
| a. Observed animal procedures are being performed as reviewed and approved by ACURO | X | | | |
| b. All personnel performing animal procedures approved in the IACUC protocol | X | | | |
| c. All changes to the protocol been reviewed and approved by the local IACUC | X | | | |
| d. All changes to the protocol been approved by ACURO | X | | | |
| Comments: The replacement of (b) (4) is a commendable refinement in the protocol. | | | | |

VETERINARIAN REVIEW:

| I. PHYSICAL ENVIRONMENT | A | MD | SD | N/A |
|--|---|----|----|-----|
| a. Microenvironment and Macroenvironment | X | | | |
| b. Housing | X | | | |
| c. Space Recommendations | X | | | |
| d. Temperature and Humidity | X | | | |
| e. Ventilation | X | | | |
| f. Illumination | X | | | |
| g. Noise/Vibration | X | | | |

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Comments:

| II. BEHAVIORAL MANAGEMENT | A | MD | SD | N/A |
|---------------------------|---|----|----|-----|
| a. Structural Environment | X | | | |
| b. Social Environment | X | | | |
| Comments: | | | | |

| III. HUSBANDRY | A | MD | SD | N/A |
|---|---|----|----|-----|
| a. Food | X | | | |
| b. Water | X | | | |
| c. Bedding | X | | | |
| d. Sanitation | X | | | |
| e. Waste Disposal | X | | | |
| f. Pest Control | X | | | |
| g. Emergency, Holiday, and Weekend Care | X | | | |
| Comments: | | | | |

| IV. POPULATION MANAGEMENT | A | MD | SD | N/A |
|-------------------------------|---|----|----|-----|
| a. Identification and Records | X | | | |
| b. Genetics and nomenclature | X | | | |
| Comments: | | | | |

| V. ANIMAL PROCUREMENT AND TRANSPORTATION | A | MD | SD | N/A |
|---|---|----|----|-----|
| a. Quarantine, Stabilization, and Separation | X | | | |
| b. Surveillance, Diagnosis, Treatment, and Control of Disease | X | | | |
| Comments: | | | | |

| VI. VETERINARY MEDICAL CARE | A | MD | SD | N/A |
|---|---|----|----|-----|
| a. Preventive Medicine | X | | | |
| b. Surgery | X | | | |
| c. Facilities for Aseptic Surgery | X | | | |
| d. Pain, Analgesia, and Anesthesia | X | | | |
| e. Euthanasia | X | | | |
| Comments: The implementation of 24 hour medical care as an institutional standard practice is commendable. Animals on (b) (4) appeared well cared for, well socialized, and behaved appropriately. | | | | |

| VII. FUNCTIONAL AREAS | A | MD | SD | N/A |
|-----------------------|---|----|----|-----|
| a. Corridors | X | | | |

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COMPONENT OVERSIGHT OFFICE (COO) VISIT CHECKLIST

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|--|---|--|--|---|
| b. Animal Room Doors | X | | | |
| c. Exterior Windows | | | | X |
| d. Floors | X | | | |
| e. Drainage | X | | | |
| f. Walls | X | | | |
| g. Ceilings | X | | | |
| h. Heating, Ventilation, and Air Conditioning (HVAC) | X | | | |
| i. Power and Lighting | X | | | |
| j. Storage Areas | X | | | |
| k. Noise Control | X | | | |
| l. Facilities for Sanitizing Materials | X | | | |
| Comments: | | | | |

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