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#### DEPARTMENT OF THE ARMY

HEADQUARTERS, U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND AND FORT DETRICK 810 SCHREIDER STREET FORT DETRICK, MARYLAND 21702-5000

March 21, 2019

(b) (6)

Named Animal Care Welfare Officer
Oxford University
(b) (6)

Oxford, United Kingdom

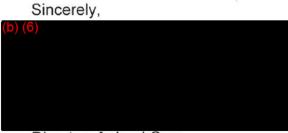
Dear (b) (6)

Review Office, Office of Research Protections, U.S. Army Medical Research and Materiel Command, conducted a site visit to Oxford University on 27 February 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. Suggestions for improvement are offered in the absence of regulatory, or guideline standards. These "best practices" are methods the staff observed to work well within other programs/facilities and are offered for the Institute's consideration.

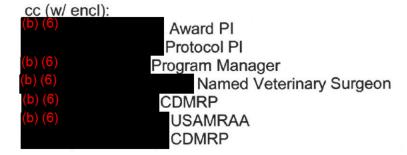
The Oxford University Animal Care and Use Program is compliant with United Kingdom Home Office regulations, with practices comparable to the recommendations of the Guide for the Care and Use of Laboratory Animals (Institute for Laboratory Animal Research). The strong collegial culture and dedication to the highest standards of animal welfare at the institute were impressive.

The Animal and 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)



Director, Animal Care and Use Review Office









Site/Visit Type:	Site Visit		Site Visited:	Oxford University
Date(s) Of Visit:	27 Feb 2019		Award and Protocol #:	(b) (4)
Award PI Name:	(b) (6)		Awarded Organizatio	Scientific & Biomedical Microsystems
Funding Agency:	CDMRP		Species Approved:	NHP
Protocol PI Name:	(b) (6)		Site Visitors	(b) (6)
Protocol Title:	(b) (4)			
	Human	Medical '	Training On	ly
Course Taught: N/A		day	s of didactic	
Service Component: Conventional Ari Conventional Air Conventional Na Special Operation	Force	COM)		
Unit Trained: N/A	# of Stude N/A	nts Traine	ed:	# of Animals Used: N/A

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

NAME	TITLE OR DEPARTMENT
(b) (6)	Protocol PI
	Program Manager

#### II. IACUC Membership and Function:

	А	MD	SD	N/A
a. Appropriate constitution (at least 5 required members, or 3 required members if not PHS Assured)	Х		, A	
b. Non-affiliated members (NAM) attend meetings regularly	Х			
c. Member appointments available and current	Х			

<sup>&</sup>lt;sup>1</sup> A-acceptable





d. IACUC member training program in place			X
e. Appropriate documentation of IACUC training for all members to include alternates	Х		
f. Mechanism in place for reporting welfare concerns	Х		
g. IACUC function document (SOP/Policy/Instruction)	Х		
h. Instructions for reporting concerns prominently displayed throughout the facility	Х		
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			Х
j. If part-time AV, written program of veterinary care including regularly scheduled visits to the facility			Х
INTRAMURAL SITES ONLY			
k. IACUC has at least 1 regular and 1 alternate NAM			
I. Documentation of approved waivers from COO for any IACUC meeting where a NAM isn't present			
m. IACUC training records include the 8 hours of required training for all members and alternates			
Comments:			10 100 10 10 10 10 10 10 10 10 10 10 10
While there are no regulatory requirements for Ethics Committee	ee membe	r training.	all

While there are no regulatory requirements for Ethics Committee member training, all members CVs are on file and reviewed at the institutional level as well as the Home Office.

#### III: IACUC Minutes and Protocol Review:

	Α	MD	SD	N/A
a. Attendance records maintained either in minutes or elsewhere	Х			
b. Quorum present at each meeting	Х			
c. Minutes demonstrate IACUC business other than protocol review	Х			
d. Documentation in minutes or elsewhere of protocol review details	Х			
e. Dissenting opinions included and explained				X
f. IACUC documents and protocol records maintained for at least 3 years				Х
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	Χ			
k. Appropriate keywords used for databases searched	Х			





INTRAMURAL SITES ONLY						
Required database searches for duplication						
m. Protocol coversheet contains all required signatures						
n. Protocols written in current DoD standardized format						
Dates of minutes reviewed: 2 May 2017, 13 March 2018						
<b>Comments</b> : Minutes of Ethics Committee meetings where fund discussed were reviewed.	led license was					

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

	Α	MD	SD	N/A
a. FIPRs conducted and reports generated at least every six months				Х
b. At least two members participated in every area of the FIPR				Х
c. Non-affiliated member participation				Х
d. Deficiencies appropriately classified as minor or significant				Х
e. Report includes a reasonable and specific plan for correction of each deficiency with correction deadlines	Х			
f. Individual responsible for correction of each deficiency identified	Х			
g. Report identifies all locations visited during the facility inspection and areas of the program reviewed	Х			
h. Departures from the provisions of the AWARs and the Guide are identified and justified				Х
i. Minority opinions are addressed				X
j. Reports are signed by majority of IACUC members				Х
k. Documentation indicating reports are forwarded to IO	Х			
Dates of FIPR reports reviewed: (Home Office Inspections) 3 HOIs from 2016, 3 HOIs from 2017, 5 HOIs from 2018				
Comments: Only 1 of the 11 reports reviewed did not indicate	that the	nere we	ere no i	ssues
raised. (b) (4)				

# V: General:

	Α	MD	SD	N/A
a. Up-to-date listing of all SOPs, including most recent review	Х			
date in accordance with SOP				

<sup>1</sup> A-acceptable

MD- minor deficiencies

SD- significant deficiencies





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	Х		
e. Comprehensive occupational health and safety (OHSP) plan in place	Х		
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	Х		
<ul> <li>g. Acceptable Psychological Well-Being Plan for NHPs in place, if applicable</li> </ul>	X		
h. Acceptable Exercise Plan for Dogs in place, if applicable			X
i. Environmental Enrichment Plan covers for all species	Х		
j. Mechanism in place to assure all protocol personnel have been trained to perform their role	Х		
k. Training records match the training requirements of the institution and IACUC	Х		

#### Comments:

j. Training records are maintained at the institute level and are reviewed regularly by Home Office Inspectors during site inspections as well as by investigative and facility staff to ensure appropriate licensing is in place prior to experimental procedures being conducted. The UK has extensive training requirements that are managed at the government level.

#### V. **FUNDED ANIMAL WORK:**

EXTRAMURAL SITES ONLY	Α	MD	SD	N/A
Observed animal procedures are being performed as reviewed and approved by ACURO	Х			
b. All personnel performing animal procedures approved in the IACUC protocol	Х			
c. All changes to the protocol been reviewed and approved by the local IACUC	Х		240	
d. All changes to the protocol been approved by ACURO	Χ			

#### Comments:

d. Before the new animal can be enrolled in DOD funded studies, be submitted to ACURO for review and approval.

# license must

#### VETERINARIAN REVIEW:

I. PHYSICAL ENVIRONMENT	A	MD	SD	N/A
a. Microenvironment and Macroenvironment	X			

<sup>1</sup> A-acceptable

MD- minor deficiencies

SD- significant deficiencies





b. Housing	X	
c. Space Recommendations	X	
d. Temperature and Humidity	X	
e. Ventilation	X	
f. Illumination	X	
g. Noise/Vibration	X	
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:				

V. POPULATION MANAGEMENT	A	MD	SD	N/A
a. Identification and Records	X			
o. Genetics and nomenclature	X			
D. Genetics and nomenciature  Comments:	X		L	

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

VI. VETERINARY MEDICAL CARE	Α	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			

<sup>&</sup>lt;sup>1</sup> A-acceptable





#### Comments:

VII. FUNCTIONAL AREAS	Α	MD	SD	N/A
a. Corridors	X			
b. Animal Room Doors	X			
c. Exterior Windows	X			100000000
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			
I. Facilities for Sanitizing Materials	Х			
Comments:		•		