



OFFICE OF THE DIRECTOR, NATIONAL INSTITUTES OF HEALTH

Grant Number: 5P40OD010938-36 REVISED
FAIN: P40OD010938

Principal Investigator(s):
CHRISTIAN R ABEE, DVM

Project Title: Squirrel Monkey Breeding and Research Resource

Gonzales, Renee
The University of Texas
MD Anderson Cancer Center
Exec Director, Sponsored Programs
1515 Holcombe Blvd, Unit 1626
Houston, TX 770304009

Award e-mailed to: AwardNotice@mdanderson.org

Period Of Performance:

Budget Period: 02/01/2016 – 01/31/2017

Project Period: 04/01/1997 – 01/31/2020

Dear Business Official:

The National Institutes of Health hereby revises this award to reflect an increase in the amount of \$76,835 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to UNIVERSITY OF TX MD ANDERSON CAN CTR in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the Office Of The Director, National Institutes Of Health of the National Institutes of Health under Award Number P40OD010938. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

Award recipients must promote objectivity in research by establishing standards that provide a reasonable expectation that the design, conduct and reporting of research funded under NIH awards will be free from bias resulting from an Investigator's Financial Conflict of Interest (FCOI), in accordance with the 2011 revised regulation at 42 CFR Part 50 Subpart F. The Institution shall submit all FCOI reports to the NIH through the eRA Commons FCOI Module. The regulation does not apply to Phase I Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) awards. Consult the NIH website <http://grants.nih.gov/grants/policy/foi/> for a link to the regulation and additional important information.

If you have any questions about this award, please contact the individual(s) referenced in Section IV.

Sincerely yours,

Gavin Wilkom
Grants Management Officer
OFFICE OF THE DIRECTOR, NATIONAL INSTITUTES OF HEALTH

Additional information follows

SECTION I – AWARD DATA – 5P40OD010938-36 REVISED**Award Calculation (U.S. Dollars)**

Salaries and Wages	\$159,326
Fringe Benefits	\$44,611
Personnel Costs (Subtotal)	\$203,937
Other	\$282,374

Federal Direct Costs	\$486,311
Federal F&A Costs	\$282,060
Approved Budget	\$768,371
Total Amount of Federal Funds Obligated (Federal Share)	\$768,371
TOTAL FEDERAL AWARD AMOUNT	\$768,371

AMOUNT OF THIS ACTION (FEDERAL SHARE)	\$76,835
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SUMMARY TOTALS FOR ALL YEARS		
YR	THIS AWARD	CUMULATIVE TOTALS
36	\$768,371	\$768,371
37	\$768,371	\$768,371
38	\$768,371	\$768,371
39	\$768,371	\$768,371

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

Fiscal Information:

CFDA Name: Research Infrastructure Programs
CFDA Number: 93.351
EIN: 1746001118A1
Document Number: POD010938I
PMS Account Type: P (Subaccount)
Fiscal Year: 2016

IC	CAN	2016	2017	2018	2019
OD	8014500	\$768,371	\$768,371	\$768,371	\$768,371

Recommended future year total cost support, subject to the availability of funds and satisfactory progress of the project

NIH Administrative Data:

PCC: CMR03 / **OC:** 414E / **Released:** 01/29/2016
Award Processed: 01/30/2016 12:00:53 AM

eRA Commons User Name

SECTION II – PAYMENT/HOTLINE INFORMATION – 5P40OD010938-36 REVISED

For payment and HHS Office of Inspector General Hotline information, see the NIH Home Page at <http://grants.nih.gov/grants/policy/awardconditions.htm>

SECTION III – TERMS AND CONDITIONS – 5P40OD010938-36 REVISED

This award is based on the application submitted to, and as approved by, NIH on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- The grant program legislation and program regulation cited in this Notice of Award.
- Conditions on activities and expenditure of funds in other statutory requirements, such as those included in appropriations acts.
- 45 CFR Part 75.
- National Policy Requirements and all other requirements described in the NIH Grants Policy Statement, including addenda in effect as of the beginning date of the budget period.

- e. Federal Award Performance Goals: As required by the periodic report in the RPPR or in the final progress report when applicable.
- f. This award notice, INCLUDING THE TERMS AND CONDITIONS CITED BELOW.

(See NIH Home Page at <http://grants.nih.gov/grants/policy/awardconditions.htm> for certain references cited above.)

Research and Development (R&D): All awards issued by the National Institutes of Health (NIH) meet the definition of "Research and Development" at 45 CFR Part§ 75.2. As such, auditees should identify NIH awards as part of the R&D cluster on the Schedule of Expenditures of Federal Awards (SEFA). The auditor should test NIH awards for compliance as instructed in Part V, Clusters of Programs. NIH recognizes that some awards may have another classification for purposes of indirect costs. The auditor is not required to report the disconnect (i.e., the award is classified as R&D for Federal Audit Requirement purposes but non-research for indirect cost rate purposes), unless the auditee is charging indirect costs at a rate other than the rate(s) specified in the award document(s).

Carry over of an unobligated balance into the next budget period requires Grants Management Officer prior approval.

This award is subject to the requirements of 2 CFR Part 25 for institutions to receive a Dun & Bradstreet Universal Numbering System (DUNS) number and maintain an active registration in the System for Award Management (SAM). Should a consortium/subaward be issued under this award, a DUNS requirement must be included. See <http://grants.nih.gov/grants/policy/awardconditions.htm> for the full NIH award term implementing this requirement and other additional information.

This award has been assigned the Federal Award Identification Number (FAIN) P40OD010938. Recipients must document the assigned FAIN on each consortium/subaward issued under this award.

This award is not subject to the Transparency Act subaward and executive compensation reporting requirement of 2 CFR Part 170.

In accordance with P.L. 110-161, compliance with the NIH Public Access Policy is now mandatory. For more information, see NOT-OD-08-033 and the Public Access website: <http://publicaccess.nih.gov/>.

Treatment of Program Income: Additional Costs

SECTION IV – OD Special Terms and Conditions – 5P40OD010938-36 REVISED

REVISION #1:

ORIP FUNDING PLAN FOR FY2016

This revised award increases the total costs authorized for FY2016 and reflects the NIH Fiscal Policy for Grant Awards for FY2016 (see NIH Guide Notice [NOT-OD-16-046](#)) and the implementation of the ORIP FY2016 grants funding policy: http://dpcpsi.nih.gov/orip/rf/fyg_fp2016

All previous terms and conditions remain in effect.

SUBJECT FOA

This award is subject to the conditions set forth in PAR14-005, "Animal and Biological Material Resource Centers (P40)," which are hereby incorporated by reference as special terms and

conditions of this award. Copies of this Funding Opportunity Announcement can be found at the following link: <http://grants.nih.gov/grants/guide/pa-files/PAR-14-005.html>.

INTERIM FUNDING PLAN

This award is being issued at 90% of the previously committed amount. Once NIH funding plans are published, this award will be revised accordingly.

PRIOR APPROVAL REQUEST

Any prior approval request (e.g., changes to key personnel as noted on the award, changes in human and animal subjects requiring prior approval, carryover requests) must be submitted to the assigned Grants Management Specialist and Programmatic Official. Please refer to Part II Chapter 8 the NIH Grants Policy Statement for the activities and/or expenditures that require NIH approval at <http://grants.nih.gov/grants/policy/nihgps/nihgps.pdf>

NON-COMPETING RENEWAL (NON-SNAP)

The NIH requires the use of the Research Performance Progress Report (RPPR) for all Type 5 progress reports. The RPPR and other documents applicable to this Non-SNAP grant are due the first of the month preceding the month in which the budget period ends (e.g., if the budget period ends 11/30, the due date is 10/1). Please see <http://grants.nih.gov/grants/rppr/index.htm> for additional information on the RPPR.

COMMUNICATIONS/PRESS RELEASE

If the grantee plans to issue a press release concerning the outcome of ORIP grant-supported research, it should notify Ms. Patricia Newman, ORIP Communications at 301-435-0744, in advance to allow for coordination.

The ORIP WWW home page is at <http://dpcpsi.nih.gov/orip/>

STAFF CONTACTS

The Grants Management Specialist is responsible for the negotiation, award and administration of this project and for interpretation of Grants Administration policies and provisions. The Program Official is responsible for the scientific, programmatic and technical aspects of this project. These individuals work together in overall project administration. Prior approval requests (signed by an Authorized Organizational Representative) should be submitted in writing to the Grants Management Specialist. Requests may be made via e-mail.

Grants Management Specialist: Shannon Oden

Email: odens@mail.nih.gov **Phone:** 301.435.0844 **Fax:** 301-480-3777

Program Official: Manuel H Moro

Email: morom@mail.nih.gov **Phone:** 301-435-0960 **Fax:** 301 480-3819

SPREADSHEET SUMMARY

GRANT NUMBER: 5P40OD010938-36 REVISED

INSTITUTION: UNIVERSITY OF TX MD ANDERSON CAN CTR

Budget	Year 36	Year 37	Year 38	Year 39
Salaries and Wages	\$159,326	\$159,326	\$159,326	\$159,326
Fringe Benefits	\$44,611	\$44,611	\$44,611	\$44,611
Personnel Costs (Subtotal)	\$203,937	\$203,937	\$203,937	\$203,937
Other	\$282,374	\$282,374	\$282,374	\$282,374
TOTAL FEDERAL DC	\$486,311	\$486,311	\$486,311	\$486,311
TOTAL FEDERAL F&A	\$282,060	\$282,060	\$282,060	\$282,060
TOTAL COST	\$768,371	\$768,371	\$768,371	\$768,371

Facilities and Administrative Costs	Year 36	Year 37	Year 38	Year 39
F&A Cost Rate 1	58%	58%	58%	58%

F&A Cost Base 1	\$486,311	\$486,311	\$486,311	\$486,311
F&A Costs 1	\$282,060	\$282,060	\$282,060	\$282,060



Grant Number: 5P40OD010938-36
FAIN: P40OD010938

Principal Investigator(s):
CHRISTIAN R ABEE, DVM

Project Title: Squirrel Monkey Breeding and Research Resource

Gonzales, Renee
The University of Texas
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Exec Director, Sponsored Programs
1515 Holcombe Blvd, Unit 1626
Houston, TX 770304009

Award e-mailed to: AwardNotice@mdanderson.org

Period Of Performance:

Budget Period: 02/01/2016 – 01/31/2017

Project Period: 04/01/1997 – 01/31/2020

Dear Business Official:

The National Institutes of Health hereby awards a grant in the amount of \$691,536 (see "Award Calculation" in Section I and "Terms and Conditions" in Section III) to UNIVERSITY OF TX MD ANDERSON CAN CTR in support of the above referenced project. This award is pursuant to the authority of 42 USC 241 42 CFR 52 and is subject to the requirements of this statute and regulation and of other referenced, incorporated or attached terms and conditions.

Acceptance of this award including the "Terms and Conditions" is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Each publication, press release, or other document about research supported by an NIH award must include an acknowledgment of NIH award support and a disclaimer such as "Research reported in this publication was supported by the Office Of The Director, National Institutes Of Health of the National Institutes of Health under Award Number P40OD010938. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health." Prior to issuing a press release concerning the outcome of this research, please notify the NIH awarding IC in advance to allow for coordination.

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Sincerely yours,

Gavin Wilkom
Grants Management Officer
OFFICE OF THE DIRECTOR, NATIONAL INSTITUTES OF HEALTH

Additional information follows

SECTION I – AWARD DATA – 5P40OD010938-36**Award Calculation (U.S. Dollars)**

Salaries and Wages	\$147,261
Fringe Benefits	\$41,233
Personnel Costs (Subtotal)	\$188,494
Other	\$249,187

Federal Direct Costs	\$437,681
Federal F&A Costs	\$253,855
Approved Budget	\$691,536
Total Amount of Federal Funds Obligated (Federal Share)	\$691,536
TOTAL FEDERAL AWARD AMOUNT	\$691,536

AMOUNT OF THIS ACTION (FEDERAL SHARE) \$691,536

SUMMARY TOTALS FOR ALL YEARS		
YR	THIS AWARD	CUMULATIVE TOTALS
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38	\$768,371	\$768,371
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Fiscal Information:

CFDA Name: Research Infrastructure Programs
CFDA Number: 93.351
EIN: 1746001118A1
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NIH Administrative Data:

PCC: CMR03 / **OC:** 414E / **Released:** 01/08/2016
Award Processed: 01/09/2016 12:00:43 AM

eRA
Commons
User Name

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INTERIM FUNDING PLAN

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PRIOR APPROVAL REQUEST

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NON-COMPETING RENEWAL (NON-SNAP)

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Grants Management Specialist: Shannon Oden

Email: odens@mail.nih.gov **Phone:** 301.435.0844 **Fax:** 301-480-3777

Program Official: Manuel H Moro

Email: morom@mail.nih.gov **Phone:** 301-435-0960 **Fax:** 301 480-3819

SPREADSHEET SUMMARY

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F&A Costs 1	\$253,855	\$282,060	\$282,060	\$282,060

A. COVER PAGE

Project Title: Squirrel Monkey Breeding and Research Resource	
Grant Number: 5P40OD010938-36	Project/Grant Period: 04/01/1997 - 01/31/2020
Reporting Period: 04/01/2015 - 01/31/2016	Requested Budget Period: 02/01/2016 - 01/31/2017
Report Term Frequency: Annual	Date Submitted: 11/24/2015
Program Director/Principal Investigator Information: CHRISTIAN R ABEE , DVM MS Phone number: 512-321-3991 Email: cabee@mdanderson.org	Recipient Organization: UNIVERSITY OF TX MD ANDERSON CAN CTR 1515 HOLCOMBE BLVD Unit 1676 HOUSTON, TX 770304009 DUNS: 800772139 EIN: 1746001118A1 RECIPIENT ID:
Change of Contact PD/PI: N/A	
Administrative Official: CLAUDIA DELGADO UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER 1515 HOLCOMBE BLVD HOUSTON, TX 77030 Phone number: 7137922282 Email: cydelgad@mdanderson.org	Signing Official: RENEE K GONZALES 1515 Holcome Unit 1676 Houston, TX 77030 Phone number: 713-792-3220 Email: osp@mdanderson.org
Human Subjects: No	Vertebrate Animals: Yes
hESC: No	Inventions/Patents: No

B. ACCOMPLISHMENTS**B.1 WHAT ARE THE MAJOR GOALS OF THE PROJECT?**

Currently the Squirrel Monkey Breeding and Research Resource (SMBRR, P40 OD010938-35) maintains 534 squirrel monkeys at the Michale E. Keeling Center for Comparative Medicine and Research (KCCMR). This includes 380 *Saimiri boliviensis boliviensis*, 18 *Saimiri boliviensis peruviansis*, and 136 *Saimiri sciureus*. The animals range in age from less than one year to 23 years old.

Our goals/specific aims for this grant period have not changed from the previous year. The overall objective of the SMBRR is to efficiently manage this unique national research resource and conduct research to better understand the biology of the squirrel monkey to enhance its biomedical research value. The Resource Management Core manages the breeding colony, provides animals, tissues/biological fluids, cell lines, expert advice, and other research resources to NIH grantees throughout the United States. This core develops and executes the operating plan for maintaining a genetically defined and self-sustaining breeding colony. The Applied Research Core carries out research to improve the health of the colony with an emphasis on reproductive health and identification of human disease models. A second study will expand our understanding of pelvic organ prolapse (POP), a common pathological condition of multiparous squirrel monkeys and women. This study will help define the squirrel monkey model of this important process and will help us manage colony reproductive health. Studies will be carried out to phenotypically characterize squirrel monkey immune cells, to analyze proliferation responses and cytokine production of Peripheral Blood Mononuclear Cells (PBMCs) to in vitro stimulations with reagents that activate innate immunity, and to assess the capacity of squirrel monkey DC to modulate antigen specific immunity.

B.1.a Have the major goals changed since the initial competing award or previous report?

No

B.2 WHAT WAS ACCOMPLISHED UNDER THESE GOALS?

File uploaded: B.2_Goals_and_Accomplishments.pdf

B.3 COMPETITIVE REVISIONS/ADMINISTRATIVE SUPPLEMENTS

For this reporting period, is there one or more Revision/Supplement associated with this award for which reporting is required?

No

B.4 WHAT OPPORTUNITIES FOR TRAINING AND PROFESSIONAL DEVELOPMENT HAS THE PROJECT PROVIDED?

NOTHING TO REPORT

B.5 HOW HAVE THE RESULTS BEEN DISSEMINATED TO COMMUNITIES OF INTEREST?

Data generated from the national resource will be disseminated through our website, manuscripts, and presentations of the core faculty to professional organizations. The SMBRR website (smbrr.kccmr.org) provides information about the natural history of squirrel monkeys and includes information on reagents directly applicable to research with the squirrel monkeys. The resource maintains a listing in the Primate Resource Referral Service providing contact information, as well as the availability of animals and biologics. During the past reporting period presentations were made at the American Society of Primatologists meeting and American Association of Laboratory Animal Science meeting.

B.6 WHAT DO YOU PLAN TO DO DURING THE NEXT REPORTING PERIOD TO ACCOMPLISH THE GOALS?

During the upcoming grant period, we will continue to work on increasing efficiency of the resource both at the level of the colony breeding statistics and the way materials are advertised to the research community. We are listing the Primate Resource Referral Service and have an online request form on our website. Both these allow investigators to request information on the availability of animals and biologics from the resource.

Part of improving the resource will include assessing the heterogeneity of the colony. We will use our resource's extended pedigree to calculate how much of the founding genetics have been maintained in the colony. We will then develop management strategies to maximize the amount of heterogeneity we maintain in the future.

Also planned for the next grant period are investigations into clinical risk factors associated with aging in the squirrel monkey. Using the extensive database of clinical treatments and causes of death, we can construct an epidemiological profile of morbidity and mortality in the squirrel monkey. We will also be working on developing Dried Blood Spot technology to increase the efficiency of blood sample storage and shipment.

Studies are planned to continue the work by our center on characterizing the immune system of the squirrel monkey. One set of studies will analyze proliferation responses and cytokine production of Peripheral Blood Mononuclear Cells (PBMCs) to in

Excluded by Requester

vitro stimulations with reagents that activate innate immunity including toll-like receptor ligands (TLR ligands), mitogens (e.g. Phytohaemagglutinin [PHA], ConcanavalinA [conA] and pokeweed mitogen), and adaptive immunity to recall antigens (e.g. Tetanus, flu, candida, bacterial lipopolysaccharide). Second we will assess the capacity of DC to modulate antigen specific immunity in terms of expanding antigen-specific memory T-cell responses in vitro or by priming naive T-cells in vivo.

B.2 WHAT WAS ACCOMPLISHED UNDER THESE GOALS?**SQUIRREL MONKEY BREEDING AND RESEARCH RESOURCE (SMBRR) AIMS/GOALS**

The overall objective of the SMBRR is to efficiently manage this unique national research resource and conduct research to better understand the biology of the squirrel monkey to enhance its biomedical research value. The Resource Management Core manages the breeding colony, provides animals, tissues/biological fluids, cell lines, expert advice, and other research resources to NIH grantees throughout the United States. This core develops and executes the operating plan for maintaining a genetically defined and self-sustaining breeding colony. The Applied Research Core carries out research to improve the health of the colony with an emphasis on reproductive health and identification of human disease models.

The major aim of the Resource/Behavioral Management Core is to continue to improve and expand the resources we provide to the biomedical research community and to improve the reproductive efficiency of the squirrel monkey in captivity. During the past reporting period we have had a total of 67 live births out of a total of 74 pregnancies (90% live birth rate). The other 10% consisted of 3 spontaneous abortions, 2 stillbirths, and 2 inter-uterine deaths. There were 12 non-infant, non-study related deaths and a total of 58 animals provided to external investigators from the resource. A separate aim for the Resource/Behavioral Management Core is to improve the efficiency in data management and in particular to increase our use of computerized databases. During the current support period we have introduced web-based data entry for daily observations and social exemption approval by the attending veterinarian and behaviorist. A working group is currently developing standards for clinical data that will be collected in the clinic. The working group consists of senior care staff, supervisors, and veterinarians. We expect significant progress during the next grant period.

Studies in the Applied Research Core have continued during the past reporting period. The aims of this core is to carry out research to improve the health and reproduction in the resource with an emphasis on reproductive health and identification of human disease models. One example of studies of a human disease model are our continuing efforts looking into the causes of pelvic organ prolapse (POP), a common pathological condition of multiparous squirrel monkeys and women. Two breeding groups were established for this study. These groups of 10 females each for three successive pregnancies. One group was assigned to undergo C-section and the other to give birth by natural vaginal delivery. Pregnancies were diagnosed by serial ultrasound examination (approximately weekly pelvic ultrasound examinations during the breeding season). This past summer consisted of the third birthing season for this study, and the animals are currently scheduled for follow-up MRI's. Results from this study have been published Excluded by Requester and presented at international meetings Excluded by Requester

REFERENCES:

Excluded by Requester

C. PRODUCTS

C.1 PUBLICATIONS

Are there publications or manuscripts accepted for publication in a journal or other publication (e.g., book, one-time publication, monograph) during the reporting period resulting directly from this award?

Yes

Publications Reported for this Reporting Period

Public Access Compliance	Citation
Complete	Excluded by Requester
Complete	
Complete	
In Process at NIHMS	
Complete	

C.2 WEBSITE(S) OR OTHER INTERNET SITE(S)

NOTHING TO REPORT

C.3 TECHNOLOGIES OR TECHNIQUES

NOTHING TO REPORT

C.4 INVENTIONS, PATENT APPLICATIONS, AND/OR LICENSES

Have inventions, patent applications and/or licenses resulted from the award during the reporting period?

No

C.5 OTHER PRODUCTS AND RESOURCE SHARING

C.5.a Other products

File uploaded: C.5.a_Other_Products.pdf

C.5.b Resource sharing

NOTHING TO REPORT

OTHER PRODUCTS AND RESOURCE SHARING

During the past funding period, we have continued the development of the Squirrel Monkey Breeding and Research Resource (SMBRR) website. This site provides access to all aspects of the resource. Information is provided on how to request access to the animals; biologic tissues and fluids from animals or the biologics bank; information on cell lines; and assays that have been used successfully with squirrel monkeys. During the coming year, information on the routine husbandry and special procedures will be put online for use by investigators and squirrel monkey colony managers.

D. PARTICIPANTS

D.1 WHAT INDIVIDUALS HAVE WORKED ON THE PROJECT?

Commons ID	S/K	Name	SSN	DOB	Degree(s)	Role	Cal	Aca	Sum	Foreign Org	Country	SS
eRA Commons User Name	Y	ABEE, CHRISTIAN R	SSN	DOB	MS,DVM	PD/PI	EFFORT					NA
	Y	Excluded by Requester			BS,MS,P HD,BS,P HD,MS	Co-Investigator						NA
	Y					Co-Investigator						NA
	N					Technician						NA
	N					Non-Student Research Assistant						NA

Glossary of acronyms:

S/K - Senior/Key
 DOB - Date of Birth
 Cal - Person Months (Calendar)
 Aca - Person Months (Academic)
 Sum - Person Months (Summer)

Foreign Org - Foreign Organization Affiliation

SS - Supplement Support

RE - Reentry Supplement

DI - Diversity Supplement

OT - Other

NA - Not Applicable

D.2 PERSONNEL UPDATES

D.2.a Level of Effort

Will there be, in the next budget period, either (1) a reduction of 25% or more in the level of effort from what was approved by the agency for the PD/PI(s) or other senior/key personnel designated in the Notice of Award, or (2) a reduction in the level of effort below the minimum amount of effort required by the Notice of Award?

No

D.2.b New Senior/Key Personnel

Are there, or will there be, new senior/key personnel?

No

D.2.c Changes in Other Support

Has there been a change in the active other support of senior/key personnel since the last reporting period?

No

D.2.d New Other Significant Contributors

Are there, or will there be, new other significant contributors?

No

D.2.e Multi-PI (MPI) Leadership Plan

Will there be a change in the MPI Leadership Plan for the next budget period?

NA

E. IMPACT

E.1 WHAT IS THE IMPACT ON THE DEVELOPMENT OF HUMAN RESOURCES?

Not Applicable

E.2 WHAT IS THE IMPACT ON PHYSICAL, INSTITUTIONAL, OR INFORMATION RESOURCES THAT FORM INFRASTRUCTURE?

NOTHING TO REPORT

E.3 WHAT IS THE IMPACT ON TECHNOLOGY TRANSFER?

Not Applicable

E.4 WHAT DOLLAR AMOUNT OF THE AWARD'S BUDGET IS BEING SPENT IN FOREIGN COUNTRY(IES)?

NOTHING TO REPORT

F. CHANGES

F.1 CHANGES IN APPROACH AND REASONS FOR CHANGE

Not Applicable

F.2 ACTUAL OR ANTICIPATED CHALLENGES OR DELAYS AND ACTIONS OR PLANS TO RESOLVE THEM

NOTHING TO REPORT

F.3 SIGNIFICANT CHANGES TO HUMAN SUBJECTS, VERTEBRATE ANIMALS, BIOHAZARDS, AND/OR SELECT AGENTS**F.3.a Human Subjects**

No Change

F.3.b Vertebrate Animals

No Change

F.3.c Biohazards

No Change

F.3.d Select Agents

No Change

G. SPECIAL REPORTING REQUIREMENTS

G.1 SPECIAL NOTICE OF AWARD TERMS AND FUNDING OPPORTUNITIES ANNOUNCEMENT REPORTING REQUIREMENTS

NOTHING TO REPORT

G.2 RESPONSIBLE CONDUCT OF RESEARCH

Not Applicable

G.3 MENTOR'S REPORT OR SPONSOR COMMENTS

Not Applicable

G.4 HUMAN SUBJECTS

G.4.a Does the project involve human subjects?

No

G.4.b Inclusion Enrollment Data

Not Applicable

G.4.c ClinicalTrials.gov

Does this project include one or more applicable clinical trials that must be registered in ClinicalTrials.gov under FDAAA?

G.5 HUMAN SUBJECTS EDUCATION REQUIREMENT

Are there personnel on this project who are newly involved in the design or conduct of human subjects research?

G.6 HUMAN EMBRYONIC STEM CELLS (HESCS)

Does this project involve human embryonic stem cells (only hESC lines listed as approved in the NIH Registry may be used in NIH funded research)?

No

G.7 VERTEBRATE ANIMALS

Does this project involve vertebrate animals?

Yes

G.8 PROJECT/PERFORMANCE SITES

Organization Name:	DUNS	Congressional District	Address
Primary: The University of Texas MD Anderson Cancer Center	800772139	TX-009	The University of Texas MD Anderson Cancer Center Bastrop TX 786026621
The University of Texas MD Anderson Cancer Center	800772139		1515 HOLCOMBE BLVD Unit 1676 HOUSTON TX 770304009

G.9 FOREIGN COMPONENT

No foreign component

G.10 ESTIMATED UNOBLIGATED BALANCE

G.10.a Is it anticipated that an estimated unobligated balance (including prior year carryover) will be greater than 25% of the current year's total approved budget?

No

G.11 PROGRAM INCOME

Is program income anticipated during the next budget period?

Yes

Anticipated Amount	Source(s)
175000	Animal Sales

G.12 F&A COSTS

Is there a change in performance sites that will affect F&A costs?

No

RPPR

RESEARCH & RELATED BUDGET - SECTION A & B

FINAL

ORGANIZATIONAL DUNS*: 800772139

Budget Type*: ☒ Project ☐ Subaward/Consortium

Enter name of Organization: UNIVERSITY OF TX MD ANDERSON CAN CTR

Start Date*: 02-01-2016

End Date*: 01-31-2017

A. Senior/Key Person												
Prefix	First Name*	Middle Name	Last Name*	Suffix	Project Role*	Base Salary (\$)	Calendar Months	Academic Months	Summer Months	Requested Salary (\$)*	Fringe Benefits (\$)*	Funds Requested (\$)*
1. Dr	Christian	R.	Abee		Project Lead	Institutional Base Salary	EFFORT			18,330.00	5,132.00	23,462.00
2.	Excluded by Requester				Co-Investigator					69,743.00	19,528.00	89,271.00
3.					Co-Investigator					47,612.00	13,331.00	60,943.00
Total Funds Requested for all Senior Key Persons in the attached file												
Additional Senior Key Persons: File Name:											Total Senior/Key Person	173,676.00

B. Other Personnel							
Number of Personnel*	Project Role*	Calendar Months	Academic Months	Summer Months	Requested Salary (\$)*	Fringe Benefits*	Funds Requested (\$)*
	Post Doctoral Associates						
	Graduate Students						
	Undergraduate Students						
	Secretarial/Clerical	EFFORT					
2	Team Lead, Anim Res/Research Assistant				27,938.00	7,823.00	35,761.00
2	Total Number Other Personnel					Total Other Personnel	35,761.00
						Total Salary, Wages and Fringe Benefits (A+B)	209,437.00

RESEARCH & RELATED Budget {A-B} (Funds Requested)

RESEARCH & RELATED BUDGET - SECTION C, D, & E

ORGANIZATIONAL DUNS*: 800772139

Budget Type*: ☒ Project ☐ Subaward/Consortium

Enter name of Organization: UNIVERSITY OF TX MD ANDERSON CAN CTR

Start Date*: 02-01-2016

End Date*: 01-31-2017

C. Equipment Description

List items and dollar amount for each item exceeding \$5,000

Equipment Item	Funds Requested (\$)*
Total funds requested for all equipment listed in the attached file	0.00
Total Equipment	0.00
Additional Equipment: File Name:	

D. Travel

Funds Requested (\$)*

1. Domestic Travel Costs (Incl. Canada, Mexico, and U.S. Possessions)	0.00
2. Foreign Travel Costs	0.00
Total Travel Cost	0.00

E. Participant/Trainee Support Costs

Funds Requested (\$)*

1. Tuition/Fees/Health Insurance	0.00
2. Stipends	0.00
3. Travel	0.00
4. Subsistence	0.00
5. Other:	
0 Number of Participants/Trainees	Total Participant Trainee Support Costs
	0.00

RESEARCH & RELATED Budget (C-E) (Funds Requested)

RESEARCH & RELATED BUDGET - SECTIONS F-K

ORGANIZATIONAL DUNS*: 800772139

Budget Type*: ☒ Project ☐ Subaward/Consortium

Enter name of Organization: UNIVERSITY OF TX MD ANDERSON CAN CTR

Start Date*: 02-01-2016

End Date*: 01-31-2017

F. Other Direct Costs		Funds Requested (\$)*
1. Materials and Supplies		0.00
2. Publication Costs		0.00
3. Consultant Services		0.00
4. ADP/Computer Services		0.00
5. Subawards/Consortium/Contractual Costs		0.00
6. Equipment or Facility Rental/User Fees		0.00
7. Alterations and Renovations		0.00
8. Animal Per Diem		276,874.00
Total Other Direct Costs		276,874.00

G. Direct Costs	Funds Requested (\$)*
Total Direct Costs (A thru F)	486,311.00

H. Indirect Costs			
Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	Funds Requested (\$)*
1. F&A	58.0	486,311.00	282,060.00
Total Indirect Costs			282,060.00
Cognizant Federal Agency			
(Agency Name, POC Name, and POC Phone Number)			

I. Total Direct and Indirect Costs	Funds Requested (\$)*
Total Direct and Indirect Institutional Costs (G + H)	768,371.00

J. Fee	Funds Requested (\$)*
	0.00

K. Budget Justification*	File Name: Budget_Justification.pdf
	(Only attach one file.)

RESEARCH & RELATED Budget (F-K) (Funds Requested)

BUDGET JUSTIFICATION**Personnel:**

No Change in personnel from that originally proposed. \$209,437

Other Expenses – Animal Care Costs (per diem):

No changes in Other Expenses from that originally proposed. \$276,874