

**NATIONAL INSTITUTES OF HEALTH
DEPARTMENT OF HEALTH AND HUMAN SERVICES**

**NATIONAL PRIMATE RESEARCH CENTERS (NPRC) PROGRAM
DIVISION OF COMPARATIVE MEDICINE
NATIONAL CENTER FOR RESEARCH RESOURCES**

**5P51RR013986-08
SOUTHWEST NATIONAL PRIMATE RESEARCH CENTER**

Final

SOUTHWEST NATIONAL PRIMATE RESEARCH CENTER

ANNUAL PROGRESS REPORT

Reporting From: 04/30/2005

Reporting To: 04/29/2006

25.859% AIDS Related

withheld



Patent or Copyright was not awarded this grant year.

PERSONNEL ROSTER

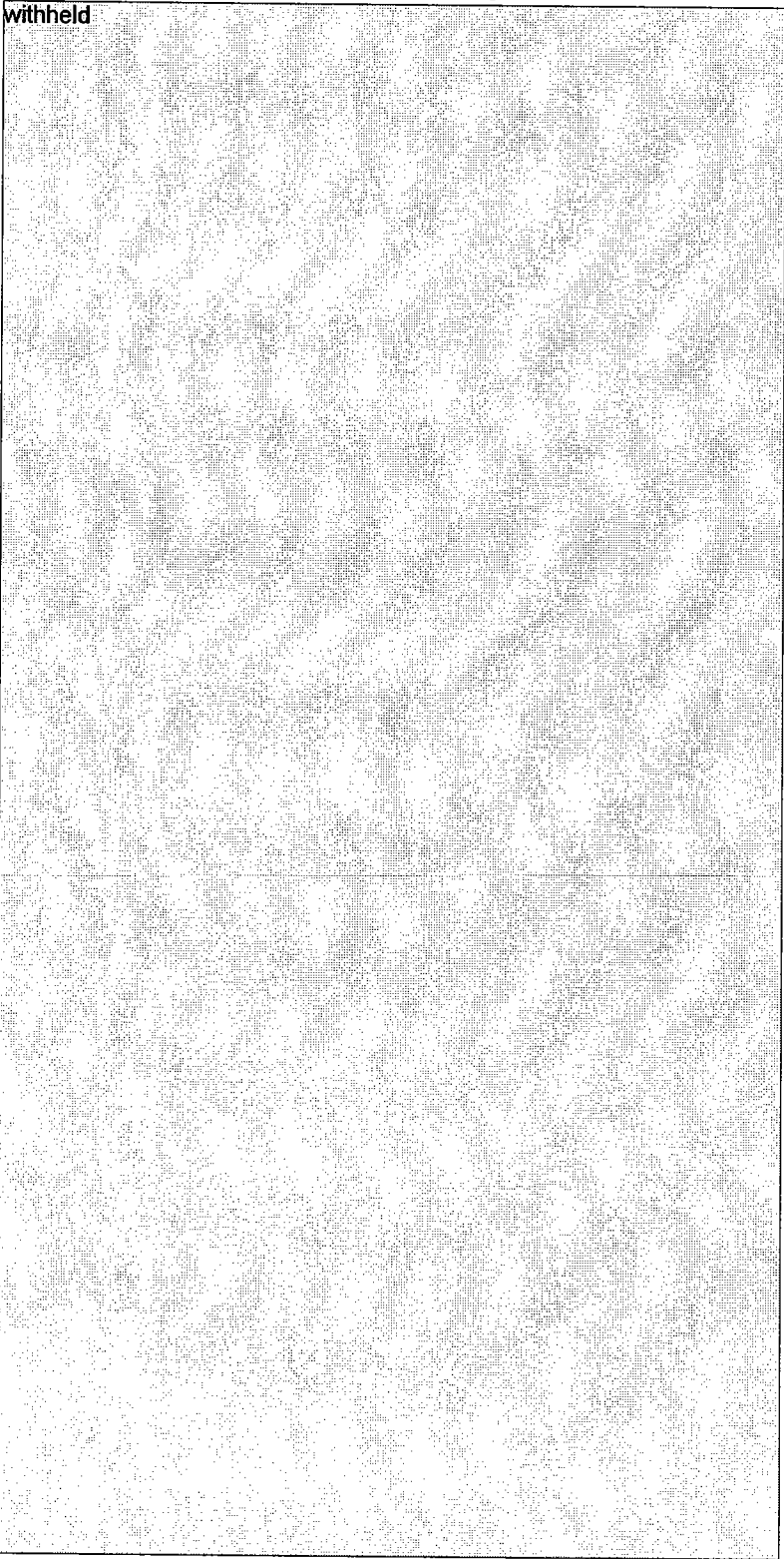
Core Doctoral Scientists

Name, Degree	Department	Non-Host Institution: State, Country
withheld	withheld	SNPRC: TX, USA : TX, USA

Affiliated

Name, Degree	Department	Non-Host Institution: State, Country
withheld	withheld	UNIV TEXAS HEALTH SCIENCE CENTER, SAN ANTONIO: TX, USA UNIVERSITY OF MARYLAND: MD, USA NHLBI: MD, USA UNIV TEXAS HEALTH SCIENCE CENTER, SAN ANTONIO: TX, USA UNIVERSITY OF PITTSBURGH: PA, USA UNIVERSITY OF WASHINGTON: WA, USA UNIV. OF TEXAS HEALTH SCIENCE CENTER, SAN ANTONIO: TX, USA Proprietary Info Proprietary Info UNIVERSITY OF PITTSBURGH: PA, USA Proprietary Info Proprietary Info UNIVERSITY OF PITTSBURGH: PA, USA

Affiliated

Name, Degree	Department	Non-Host Institution: State, Country
withheld		UNIVERSITY OF TEXAS HEALTH SCIENCES CENTER, SAN ANTONIO: TX, USA
		Proprietary Info
		Proprietary Info
		UNIV CA, SF: CA, USA
		UNIV TX HEALTH SCIENCE CENTER SAN ANTONIO: TX, USA
		OREGON REGIONAL PRIMATE RESEARCH CENTER: OR, USA
		UNIVERSITY OF PITTSBURGH: PA, USA
		Proprietary Info
		UNIVERSITY OF TEXAS @ AUSTIN: TX, USA
		UNIVERSITY OF PITTSBURGH: PA, USA
		Proprietary Info
		Proprietary Info
		UNIVERSITY OF ILLINOIS AT CHICAGO: IL, USA
		UNIVERSITY OF PITTSBURGH: PA, USA
		WRIGHT STATE UNIVERSITY: WI, USA
	UNIVERSITY OF KENTUCKY: KY, USA	
	UNIV TX HEALTH SCIENCE CENTER, SAN ANTONIO: TX, USA	
	UNIVERSITY OF WASHINGTON: WA, USA	
	Proprietary Info	
	UNIV TX HEALTH SCIENCE CENTER SAN ANTONIO: TX, USA	
	UNIV OF TEXAS HEALTH SCIENCE CENTER, SAN ANTONIO: TX, USA	
	UNIVERSITY OF NEBRASKA: NE, USA	
	Proprietary Info	
	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO: TX, USA	
	UNIV WA: WA, USA	
	UNIV OF TEXAS MEDICAL BRANCH, GALVESTON: TX, USA	

Affiliated

Name, Degree	Department	Non-Host Institution: State, Country
withheld		Proprietary Info OHIO STATE UNIVERSITY: OH, USA
		Proprietary Info
		Proprietary Info
		Proprietary Info NCI-FREDERICK: MD, USA
		Proprietary Info
		Proprietary Info UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO: TX, USA UTHSCSA: TX, USA
		U ILLINOIS: IL, USA UNIV TX MEDICAL BRANCH, GALVESTON: TX, USA NIDDK, NIH: MD, USA
		Proprietary Info
		Proprietary Info UNIVERSITY OF TEXAS MEDICAL SCHOOL, HOUSTON: TX, USA
		UNIVERSITY OF TEXAS, SAN ANTONIO: TX, USA UNIV OF TEXAS HEALTH SCIENCE CENTER , SAN ANTONIO: TX, USA UNIV OF TEXAS HEALTH SCIENCE CENTER, SAN ANTONIO: TX, USA UNIV TX SW MED CENTER, DALLAS: TX, USA
		Proprietary Info UNIVERSITY OF PITTSBURGH: PA, USA
		UNIV OF TEXAS HEALTH SCIENCE CENTER, SAN ANTONIO: TX, USA
		Proprietary Info
		UNIV OF TEXAS HEALTH SCIENCE CENTER, SAN ANTONIO: TX, USA
		Proprietary Info

Affiliated

Name, Degree	Department	Non-Host Institution: State, Country
withheld		<p>EASTER VIRGINIA MEDICAL SCHOOL: VA, USA Proprietary Info</p> <p>Proprietary Info</p> <p>Proprietary Info</p> <p>UNIVERSITY OF TEXAS MEDICAL BRANCH-GALVESTON: TX, USA UNIVERSITY OF PITTSBURGH: PA, USA Proprietary Info</p> <p>Proprietary Info</p> <p>Proprietary Info</p> <p>UNIV TX SW MED CENTER DALLAS: TX, USA WRIGHT STATE UNIVERSITY: WI, USA Proprietary Info</p> <p>UNIVERSITY OF TEXAS HEALTH SCIENCES CENTER, SAN ANTONIO: TX, USA UNIVERSITY OF PITTSBURGH: PA, USA Proprietary Info</p> <p>UNIVERSITY OF TEXAS HEALTH SCIENCES CENTER, SAN ANTONIO: TX, USA Proprietary Info</p> <p>WRIGHT STATE UNIVERSITY: WI, USA Proprietary Info</p> <p>Proprietary Info</p> <p>OHIO STATE UNIV-CHILDREN'S RESEARCH INSTITUTE: OH, USA UNIVERSITY OF TEXAS MEDICAL BRANCH, GALVESTON: TX, USA Proprietary Info</p> <p>Proprietary Info</p> <p>Proprietary Info</p>
		<p>UNIVERSITY OF PITTSBURGH: PA, USA</p>

Affiliated

Name, Degree

Department

Non-Host Institution: State, Country

withheld

UNIVERSITY OF UTAH: UT, USA
UNIV TX HEALTH SCIENCE CENTER
SAN ANTONIO: TX, USA

SUBPROJECT DESCRIPTIONS

NPRC MANAGEMENT SUBPROJECTS

CONSTRUCTION OF SPF RHESUS MACAQUE FACILITY (0276)

NPRC UNIT: ADMINISTRATIVE

%NPRC \$: 2.297% AIDS RELATED RESEARCH

INVESTIGATOR	DEGREES	STAFF CODE	DEPARTMENT	NON-HOST INSTITUTION: STATE, COUNTRY
Withheld				, TX USA

SUBPROJECT DESCRIPTION

The proposed construction will provide a complex of six buildings to be used for SPF Indian-origin rhesus monkeys and using them in AIDS-related research. The breeding facilities will consist of four buildings each with 14 indoor-outdoor cages. Total square footage of these buildings is 14,864. The breeding cages are separated into four buildings to reduce disease transmission. A climate-controlled building (544 sq. ft.) will be constructed in close association with the breeding cage buildings to be used for treating ill animals. It will have a treatment room, an isolation room and support rooms. The remaining building in the complex will be a personnel support facility. It will include two locker rooms, an office and a break room (624 sq. ft.). The SPF breeding colony to be housed in this complex is funded by a National Institutes of Health (NIH) Cooperative Agreement (U42-RR16024). Under this cooperative agreement, the SNPRC will produce SPF rhesus monkeys for use primarily by NIH-grantees conducting AIDS-related research. The SWRPRC breeding colony, currently consisting of about 290 animals, is housed in a 40-year-old complex approximately 20 miles from the SNPRC and on a military base that is scheduled to be turned over to the City of San Antonio in 2002. In addition to the operational difficulties of maintaining such a facility from a distance, the present facility can not accommodate the approximate doubling in colony size that is expected within the next four years. The SNPRC combines experienced professional staff, proven methods, and excellent facilities for the virological and immunological evaluation of SPF rhesus macaques used in simian immunodeficiency virus (SIV)/AIDS research. These resources, combined with the recently acquired SPF rhesus colony and staff skilled in state-of-the-art genetic and demographic management, position the SWRPRC to play a pivotal role in meeting the national need for SPF rhesus in AIDS-related research. The proposed construction will provide the animal housing facilities necessary for the SNPRC to fully realize its potential to meet this national research need.

IMPROVEMENT OF PRIMATE CLINICAL CARE FACILITY (0278)

NPRC UNIT: ADMINISTRATIVE

%NPRC \$: 0.189% **AIDS RELATED RESEARCH**

INVESTIGATOR	DEGREES	STAFF CODE	DEPARTMENT	NON-HOST INSTITUTION: STATE, COUNTRY
withheld				, TX USA

SUBPROJECT DESCRIPTION

Research on chronic diseases has been and will continue to be an important and well-funded component of the National Institutes of Health (NIH)-supported research program at the SNPRC. The ongoing success of chronic disease research is dependent upon the continued provision of high-quality clinical care; however, growth in investigator research support and animal utilization has taxed ability to provide necessary clinical care and support for NHPs. This application requests funding to improve existing animal care facilities to fulfill the following long-term objectives: 1) to modernize and expand the Institution's capacity for providing clinical care for treating NHPs, especially baboons, that are active participants in or are being held for future research protocols; 2) to equip the renovated treatment rooms with additional examination tables, gurneys, carts, and procedure lights which are needed to provide high-quality animal care; 3) to upgrade the Institution's radiographic capabilities by acquisition of digital x-ray equipment; and 4) to bring the facilities into compliance with current National Research Council (NRC) ventilation recommendations for animal care areas. The proposed alteration and renovation will remediate current inefficiencies of space utilization and traffic movement and will utilize the space gained to create a larger treatment area. Clinical procedure capabilities will be expanded and modernized with needed equipment, and a critical care area will be established adjacent to the clinic area. An office space currently adjacent to the clinic will be relocated away from animal care areas. Finally, the heating, ventilation, and air-conditioning (HVAC) system will be replaced with a system that supplies 100 percent fresh air. The net result of the proposed renovations is to modernize aged facilities and to increase institutional capacity for provision of high-quality animal care.

RHESUS BREEDING COLONY IN NEPAL AND IMPORTATION TO USA (0399)

NPRC UNIT: ADMINISTRATIVE

%NPRC \$: 0.714% AIDS RELATED RESEARCH

INVESTIGATOR	DEGREES	STAFF CODE	DEPARTMENT	NON-HOST INSTITUTION: STATE, COUNTRY
withheld				, TX USA

SUBPROJECT DESCRIPTION

There is a severe shortage of rhesus monkeys (*Macaca mulatta*) required to fulfill critical needs in research on AIDS, on development of vaccines against infectious agents that could be used as biological weapons, and on a wide variety of other topics in biomedical research. Rhesus macaques derived from monkeys of Indian origin have unique characteristics that are particularly valuable in research on the development of AIDS vaccines. Despite the recent expansion of breeding colonies in the United States, the shortage of these important research animals is actually increasing in severity, accentuating the need for new sources of Indian-type rhesus. Indian-type rhesus macaques exist in large numbers throughout many regions of Nepal. The production and exportation of captive born rhesus macaques is approved under Nepalese law. The objective of this proposal is to address the urgent need for a new source of Indian-type rhesus macaques for use in biomedical research by developing a captive breeding colony in Nepal. We are developing a self-sustaining colony capable of supplying 75 animals per year to the US to meet critical biomedical research needs.

SUBPROJECT PROGRESS

The current year has been devoted to constructing relocatable buildings at the site selected for establishment of the breeding colony in Nepal. The first set of buildings is 80% complete. A senior veterinarian has received advanced training in the management of macaques at the Southwest National Primate Research Center and **Personal Info** The first wild-caught founders of the breeding colony are expected to enter the facilities during 2006.

RESEARCH SUBPROJECTS

