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SPF 4 Rhesus Macaque Breeding Colony for AIDS Research

Project Number
5U42OD010426-17

Contact PI/Project Leader
TIMMEL, GREGORY BRION

Awardee Organization
OREGON HEALTH & SCIENCE
UNIVERSITY

Description

Abstract Text

PROJECT SUMMARY, Overall A safe, effective vaccine continues to be the best hope for controlling the Human Immunodeficiency Virus (HIV) **pandemic**. Due to similarities between the Indian-origin rhesus macaque (Macaca mulatta) and human immune systems, vaccine development as well as other approaches for controlling AIDS are heavily dependent upon the SIV and SHIV macaque models. There is a continuing need for Indian-origin rhesus macaques to support this work. Efficient domestic breeding programs, effectively managed to produce well characterized animals, with enhanced usefulness in biomedical research offer the best solution to ensuring the supply of Indian-origin rhesus macaques for AIDS vaccine development and other treatment and pathogenesis studies. The purpose of this proposal is to provide support for the genetically characterized, specific pathogen free, Indian-origin rhesus macaque AIDS Research Colony resource that was established in 2001 at the Oregon National Primate Research Center.

Public Health Relevance Statement

Project Narrative The specific aims in this proposal are designed to continue our current efforts to maintain a genetically diverse MHC-defined SPF Indian-origin rhesus macaque colony targeting AIDS-related research focused on the use of opportunistic viral agents as vaccine vectors, as well as other approaches to AIDS prevention and treatment.

Project Terms

AIDS prevention	AIDS vaccine development		AIDS/HIV problem		Acquired Immunodeficiency Syndrome		
Animals	Biomedical Research	Breeding	Caring	Disease	Ensure	Funding	
Genetic Variation	Genetic screening method		Genotype	HIV	Health Sciences	Human	
Immune system	Macaca	Macaca mulatta	Modeling	Oregon	Pathogenesis	Primates	
Request for Applications		Research	Resources	SIV	Universities	Vaccines	Viral Work
design	germ free condition	offspring	pandemic disease		pathogen	programs	
simian human immunodeficiency virus			testing services		vaccine development		vector vaccine

Details

Contact PI/ Project Leader

Name
TIMMEL, GREGORY BRION

Title
ASSOCIATE DIRECTOR, ONPRC

Contact
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Other PIs

Not Applicable

Program Official

Name
ARNEGARD, MATTHEW ERIN

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Organization

Name
OREGON HEALTH & SCIENCE
UNIVERSITY

City
PORTLAND

Country
UNITED STATES (US)

Department Type
VETERINARY SCIENCES

Organization Type
PRIMATE CENTERS

State Code
OR

Congressional District
03

Thank you for your feedback!

Other Information

FOA PAR-14-066		Administering Institutes or Centers OFFICE OF THE DIRECTOR, NATIONAL INSTITUTES OF HEALTH		Project Start Date	01-January-2013
Study Section Special Emphasis Panel[ZRG1-AARR-J(51)R]		DUNS Number 096997515	CFDA Code 351	Project End Date	28-February-2021
Fiscal Year 2019	Award Notice Date 14-February-2019			Budget Start Date	01-March-2019
				Budget End Date	29-February-2020

Project Funding Information for 2019

Total Funding \$357,926	Direct Costs \$204,529	Indirect Costs \$153,397
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Year	Funding IC	FY Total Cost by IC
2019	OFFICE OF THE DIRECTOR, NATIONAL INSTITUTES OF HEALTH	\$357,926

Sub Projects

Export

Project Number	Sub	Principal Investigator(s)/ Project Leader(s)	Organization	Fiscal Year	Admin IC	FY Total Cost by IC
Husbandry & Management Core						
5U42OD010426-17	7211	ANDREWS, KIRK RICHARD	OREGON HEALTH & SCIENCE UNIVERSITY	2019	OD	\$145,174
Viral Testing Core						
5U42OD010426-17	7212	KAHL, CHRISTOPH ADRIAN	OREGON HEALTH & SCIENCE UNIVERSITY	2019	OD	\$46,054
MHC Genetic Typing Core						
5U42OD010426-17	7213	VINSON, AMANDA	OREGON HEALTH & SCIENCE UNIVERSITY	2019	OD	\$166,698

Publications

Export

Journal (Link to PubMed abstract)	Authors	Publication Year	Similar Publications	CitedBy	iCited
Mitigation of endemic GI-tract pathogen-mediated inflammation through development of multimodal treatment regimen and its impact on SIV acquisition in rhesus macaques.					
PLoS pathogens 2021 05; 17 (5). e1009565	Bochart, Rachele M; Busman-Sahav. Kathleen: Bondoc.	2021			
View All					
Brain pathology caused in the neonatal macaque by short and prolonged exposures to anticonvulsant drugs.					
Neurobiology of disease 2021 02; 149 105245	Noguchi, Kevin K; Fuhler, Nicole A; Wand. Sophie H:	2021			
View All					
Predictors of Subcutaneous Injection Site Reactions to Sustained-Release Buprenorphine in Rhesus Macaques (Macaca mulatta).					
Journal of the American Association for Laboratory Animal Science : JAALAS 2021 05 01; 60 (3) 329-336	Haertel, Andrew J; Schultz, Matthew A; Colgin, Lois M; Johnson, Amanda L	2021			
A large repertoire of B cell lineages targeting one cluster of epitopes in a vaccinated rhesus macaque.					
Vaccine 2021 09 15; 39 (39) 5607-5614	Li, Liuzhe; Hessell, Ann J; Kong, Xiang-Peng; Haigwood, Nancy L; Gorny, Mirosław K	2021			
Cloning and functional testing of rhesus macaque (Macaca mulatta) IL-9 and IL-33.					
Journal of medical primatology 2020 06; 49 (3) 144-152	Sarkar, Sanghita; Hessell, Ann J; Haigwood, Nancy L; Kobie, James J	2020			

Thank you for your feedback!

Journal (Link to PubMed abstract)	Authors	Publication Year	Similar Publications	CitedBy	iCite RCR
Rapid Induction of Multifunctional Antibodies in Rabbits and Macaques by Clade C HIV-1 CAP257 Envelopes Circulating During Epitope-Specific Neutralization Breadth Development.					
Frontiers in immunology 2020; 11 984	Malherbe, Delphine C; Wibmer, Constantinos Kurt: Nonvane.	2020	 	 	 0.74
View All					

In vitro and in vivo characterization of a recombinant rhesus cytomegalovirus containing a complete genome.

 Patents

No Patents information available for 5U42OD010426-17

 Outcomes

The Project Outcomes shown here are displayed verbatim as submitted by the Principal Investigator (PI) for this award. Any opinions, findings, and conclusions or recommendations expressed are those of the PI and do not necessarily reflect the views of the National Institutes of Health. NIH has not endorsed the content below.

No Outcomes available for 5U42OD010426-17

 Clinical Studies

No Clinical Studies information available for 5U42OD010426-17

 News and More

Related News Releases

No news release information available for 5U42OD010426-17

 History

No Historical information available for 5U42OD010426-17

 Similar Projects

No Similar Projects information available for 5U42OD010426-17