11/29/21, 2:37 AM RePORT) RePORTER

Back to Search Results

Description

Details

Sub-Projects

Publications

Patents

Outcomes

Clinical Studies

News and More

<u>History</u>

Similar Projects

Advancement of Vaccines and Treatments for Ebola and Marburg Virus Infections

Project Number Contact PI/Project Leader 5U19AI142785-03 **GEISBERT, THOMAS WILLIAM** **Awardee Organization UNIVERSITY OF TEXAS MED BR**

GALVESTON

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Abstract Text

OVERALL - Project Summary/Abstract Among viruses that cause disease in humans the filoviruses, Ebolavirus and Marburgvirus, stand out for their impressive lethality. These viruses are the most deadly human pathogens known to man with reported case fatality rates of up to 90%. The recent unprecedented 2013-16 epidemic of Zaire ebolavirus in West Africa resulting in over 28,000 cases and 11,000 deaths demonstrates the ability of filoviruses to emerge in new regions. In addition to natural outbreaks, Ebolavirus and Marburgvirus are known to have been the subjects of former biological weapons programs and have the potential for deliberate misuse. Currently, there are no filovirus vaccines or treatments approved for human use. For these reasons Ebolavirus and Marburgvirus have recently been included as only two of eleven human pathogens on the new US Department of Health and Human Services (HHS) Tier 1 list of Category A select agents. All three Research Projects (RP) that comprise the Center focus on developing broad spectrum rapid acting vaccines or therapeutics against all medically relevant variants and species of the family Filoviridae. RP1 employs recombinant vesicular stomatitis virus (VSV)-based rapid acting vaccines, RP2 focuses on fully human anti-filovirus monoclonal antibodies, and RP3 focuses on anti-filovirus small interfering RNAs, small molecule antivirals (GS-5734 and favipiravir), and combination treatments. A unique aspect of this Center is that these approaches represent a very small cohort of medical countermeasures that have shown the ability to provide complete single injection vaccination or therapeutic protection of nonhuman primates against filoviruses. This level of readiness is a major strength and consequential advantage of our Center. The primary objective of the Advancement of Vaccines and Treatments for Filovirus Infections Center is to perform "well documented" and also "pivotal" NHP studies that will facilitate the development of products used for the broad spectrum treatment of filovirus infections. The synergy and cooperation among the three RPs, the Administrative Core, and the Biosafety Level (BSL)-4 Core is built into the Center by design as all three RPs work together to assess and combine countermeasures for enhanced efficacy. Quality system data management will be employed in both the preparation of advanced stage test articles and in the conduct of animal studies.

Public Health Relevance Statement

OVERALL - Narrative The filoviruses, Ebolavirus and Marburgvirus, are categorized as HHS Tier 1 Category A pathogens based on their risk of deliberate misuse with the most significant potential for mass casualties or devastating effects to the economy, critical infrastructure, or public confidence. There are no medical countermeasures approved for human use; therefore, this Center focuses on the advanced development of the most promising rapid acting vaccine and lead candidate postexposure treatments. These projects represent the most effective strategies that have shown single injection vaccine or therapeutic protection of nonhuman primates against filoviruses.

Project Terms

Advanced Development Antiviral Agents Bundibugyo virus Africa Angola Animals Case Fatality Rates Case Study Categories Category A pathogen Cells **Cessation of life Combined Modality Therapy** Congo Consequentialism **Data Management Resources** Disease **Disease Outbreaks Ebola virus Epidemic Family Filoviridae Infections Filovirus** Goals **Journals** Health Human Infrastructure Injections Intervention Laboratories Licensure Marburgvirus Medical Microbiology **Monoclonal Antibodies Nature Needlestick Injuries Pongidae Population** Preparation Preventive vaccine **Publications** Readiness **Small Interfering RNA** Recombinants **Research Project Grants** Risk Services **Sudan Ebola virus**

Read More



Contact PI/ Project Leader

Name **GEISBERT, THOMAS WILLIAM**

Title **PROFESSOR** Contact

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Other Pls

Not Applicable

Program Official

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Thank you for your feedback!

11/29/21, 2:37 AM RePORT) RePORTER

尽 Back to Search Results

(≡) <u>Description</u>

Details

Sub-Projects

Publications

Patents

Outcomes

Clinical Studies

News and More

<u>History</u>

Similar Projects

Advancement of Vaccines and Treatments for Ebola and Marburg Virus Infections

Project Number Contact PI/Project Leader 5U19AI142785-03 **GEISBERT, THOMAS WILLIAM** **Awardee Organization UNIVERSITY OF TEXAS MED BR GALVESTON**

UITY **SCHOOLS OF MEDICINE** 14

GALVESTON

Country

UNITED STATES (US)

Other Information

Fiscal Year

2021

FOA Administering Institutes or Centers **NATIONAL INSTITUTE OF ALLERGY** RFA-AI-17-042 AND INFECTIOUS DISEASES Study Section ZAI1-LG-M(J1)

CFDA Code **DUNS Number** 800771149 855

Date

08-March-2019

01-March-2021

Project End Date 29-February-

2024

Budget Start

Project Start

Date

Budget End Date 28-February-

2022

Project Funding Information for 2021

Award Notice Date

19-February-2021

Total Funding Indirect Costs Direct Costs \$5,964,014 \$7,043,167 \$1,079,153

Year	Funding IC	FY Total Cost by IC		
2021	NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES \$	\$7,043,167		

品 Sub Projects

L Export

		:								
Project Number	Sub	Principal Investigator(s)/ Project Leader(s)	Organization		Fiscal Year	Admin IC	FY To Cost IC			
Research Project 2. Therapeutic Human Wonocional Antibody Treatments for Phoviruses										
5U19AI142785- 8 03	3191	<u>CROWE, JAMES E</u>	UNIVERSITY OF TEXAS MED BR GALVESTON	2021	NIAID	\$2,57	8,594			
Research Project 1: Vaccine for Rapid Response to Filovirus Outbreak										
<u>5U19AI142785-</u> 8 <u>03</u>	8190	♣ <u>ELDRIDGE, JOHN HAYWARD</u> ☑	UNIVERSITY OF TEXAS MED BR GALVESTON	2021	NIAID	\$96.	3,069			
BSL-4 Evaluation Core (Core B)										
<u>5U19AI142785-</u> 8189 <u>03</u>		<u>GEISBERT, THOMAS</u> <u>WILLIAM</u>	UNIVERSITY OF TEXAS MED BR GALVESTON	2021	NIAID	\$2,542,134				
Administrative Core (Core A)										
5U19AI142785- 8 03	3188	<u>SEISBERT, THOMAS</u> <u>WILLIAM</u>	UNIVERSITY OF TEXAS MED BR GALVESTON	2021	NIAID	\$18	8,571			
Research Proje	ect 3:	siRNA Therapy and Small M	lolecule Combination Treatmer	nt for Filo	/iruses					
5U19AI142785- 8 03	3192	<u>SEISBERT, THOMAS</u> <u>WILLIAM</u> □	UNIVERSITY OF TEXAS MED BR GALVESTON	2021	NIAID	\$77	0,799			

Publications

No Publications available for 5U19AI142785-03



No Patents information available for 5U19Al142785-03

11/29/21, 2:37 AM RePORT) RePORTER

尽 Back to Search Results

Description

Details

Sub-Projects

Publications

Patents

Outcomes

Clinical Studies

News and More

History

Similar Projects

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Awardee Organization
UNIVERSITY OF TEXAS MED BR
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No Outcomes available for 5U19Al142785-03

Clinical Studies

No Clinical Studies information available for 5U19Al142785-03

News and More

Related News Releases

No news release information available for 5U19AI142785-03

← History

No Historical information available for 5U19Al142785-03

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