

[Back to Search Results](#)

- [Description](#)
- [Details](#)
- [Sub-Projects](#)
- [Publications](#)
- [Patents](#)
- [Outcomes](#)
- [Clinical Studies](#)
- [News and More](#)
- [History](#)
- [Similar Projects](#)

West African Emerging Infectious Disease Research Center (WA-EIDRC)

Project Number	Contact PI/Project Leader	Awardee Organization
1U01AI151812-01	ANDERSEN, KRISTIAN GRAUGAARDOther PIs	SCRIPPS RESEARCH INSTITUTE

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Description

Abstract Text

Ensuring a world safe from microbial threats is a pressing challenge, as outbreaks exact tolls on human health, disrupt regional security, and have the potential to rapidly escalate into global crises. In recent years, severe outbreaks of Ebola, Lassa, Zika, and other emerging viruses have illustrated how vulnerable the world is to threats from RNA viral pathogens. These public health emergencies have exposed the urgent need for improved infrastructure, scientific knowledge, and diagnostic tools in areas of the world most at risk, and underscore the need for proactive pathogen surveillance, detection, and discovery. West Africa has a disproportionate vulnerability to outbreaks, but we lack awareness of acute threats, their natural history, and effective strategies for prevention. Rooted research between local and global partners, combined with novel assays and strategies for pandemic preparedness is required to answer these questions. We will build the capacity to rapidly respond to future outbreaks by establishing the West African Emerging **Infectious Disease** Research Center. This center will expand on years of successful cross-disciplinary research and capacity building, bringing together leading researchers from the United States, Liberia, Nigeria, Senegal, and Sierra Leone. We will: (1) perform comprehensive surveys of acute RNA viral **disease** and determine critical threats circulating in hosts and reservoirs; (2) identify risk factors of virus transmission and evolution; (3) dissect pathogenesis and natural history of severe RNA viral diseases; and (4) determine diagnostic criteria for infection outcome to guide public health interventions. Our work will significantly expand research capacity in West Africa via technology development of novel solutions for surveillance, diagnostics, and pathogen discovery. By establishing our center with a focus on priority pathogen research, technology transfer, training, and capacity building, we will develop flexible strategies for detecting, mitigating, and preventing the emergence of future **infectious disease** outbreaks.

Public Health Relevance Statement

In recent years, severe outbreaks and epidemics of Ebola, Lassa, and Zika have illustrated how vulnerable the world is to threats from RNA viral pathogens. To counter the dangers posed by these viruses, we must develop flexible and scalable technologies for diagnostics, surveillance, pathogen discovery and transmission, and deploy them in the most outbreak-prone regions of the world. Here, we will establish the West African Emerging Infectious Diseases Research Center with partners in the United States, Senegal, Sierra Leone, Liberia, and Nigeria, to develop effective strategies, and deploy the necessary tools, for detecting, mitigating, and preventing future outbreaks from emerging and re-emerging infectious diseases.

NIH Spending Category











Biodefense	Biotechnology	Clinical Research	Emerging Infectious Diseases
Genetics	Infectious Diseases	Prevention	Rare Diseases

Project Terms

Acute	Affect	Africa	African	Animals	Area	Awareness
Biological Assay	Chiroptera	Clinical	Clinical Management			
Clustered Regularly Interspaced Short Palindromic Repeats	Collaborations					
Communicable Diseases	Communication	Communities	Country			

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[Back to Search Results](#)

-  [Description](#)
-  [Details](#)
-  [Sub-Projects](#)
-  [Publications](#)
-  [Patents](#)
-  [Outcomes](#)
-  [Clinical Studies](#)
-  [News and More](#)
-  [History](#)
-  [Similar Projects](#)

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Details

Contact PI/ Project Leader	Other PIs	Program Official
Name ANDERSEN, KRISTIAN GRAUGAARD ↗	Name GARRY, ROBERT F ↗ SABETI, PARDIS CHRISTINE ↗	Name PATTERSON, JEAN LOIS
Title ASSOCIATE PROFESSOR		Contact jean.patterson@nih.gov
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Organization

Name SCRIPPS RESEARCH INSTITUTE	Department Type Unavailable	State Code CA
City LA JOLLA	Organization Type Research Institutes	Congressional District 49
Country UNITED STATES (US)		

Other Information

FOA RFA-AI-19-028	Administering Institutes or Centers NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	Project Start Date 21-May-2020
Study Section Special Emphasis Panel[ZA11 EC-M (J2)]	DUNS Number CFDA Code 781613492 855	Project End Date 30-April-2025
Fiscal Year 2020	Award Notice Date 21-May-2020	Budget Start Date 21-May-2020
		Budget End Date 30-April-2021











Project Funding Information for 2020

Total Funding \$1,883,223	Direct Costs \$1,534,498	Indirect Costs \$348,725
Year	Funding IC	
2020	NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	\$1,883,223

NIH Categorical Spending	Click here for more information on NIH Categorical Spending	
Funding IC	FY Total Cost by IC	NIH Spending Category

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[Back to Search Results](#)

-  [Description](#)
-  [Details](#)
-  [Sub-Projects](#)
-  [Publications](#)
-  [Patents](#)
-  [Outcomes](#)
-  [Clinical Studies](#)
-  [News and More](#)
-  [History](#)
-  [Similar Projects](#)

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1U01AI151812-01	ANDERSEN, KRISTIAN GRAUGAARD Other PIs	SCRIPPS RESEARCH INSTITUTE

Infectious
Diseases;
Genetics;
Infectious
Diseases;
Prevention;
Rare Diseases;

Sub Projects

No Sub Projects information available for 1U01AI151812-01

Publications

No Publications available for 1U01AI151812-01

Patents

No Patents information available for 1U01AI151812-01

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 1U01AI151812-01

Clinical Studies

No Clinical Studies information available for 1U01AI151812-01

News and More











Related News Releases

No news release information available for 1U01AI151812-01

History

Thank you for your feedback!

[Back to Search Results](#)

-  [Description](#)
-  [Details](#)
-  [Sub-Projects](#)
-  [Publications](#)
-  [Patents](#)
-  [Outcomes](#)
-  [Clinical Studies](#)
-  [News and More](#)
-  [History](#)
-  [Similar Projects](#)

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No Similar Projects information available for 1U01AI151812-01

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