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Peru Infectious Diseases Epidemiology Research Training Consortium

Project Number 5D43TW007393-15 **Former Number** 2D43TW007393-12

Contact PI/Project Leader

LESCANO, ANDRES G

Awardee Organization UNIVERSIDAD PERUANA CAYETANO

HEREDIA



Abstract Text

DESCRIPTION (provided by applicant): South America faces a changing epidemiological environment with a mix of endemic and emerging challenges. Past challenges have covered a broad range of ailments moving from SARS to avian and pandemic influenza and dengue hemorrhagic fever. We are now threatened by the imminent emergence of Chikungunya virus, the rise of artemisinin-resistant Plasmodium falciparum in the Guyana shield and the spread of visceral leishmaniasis in the southern cone. An adequate response to emerging infections requires epidemiologists with advanced research training. However, there are no doctoral programs of international caliber in resource-limited countries like Peru. The NAMRU-6/UPCH/UNMSM/UFMG/JHBSPH/USUHS/CDC consortium proposes to substantially expand our ability to train doctorallevel investigators in a cost-effective and sustainable way, fosterin a new generation of international-caliber scientists. Specifically, we will create a four-year doctorl program in Epidemiology in Peru and will enroll two four-student classes. Additionally, we will reinsert seven PhDs scientists in Peru upon completion of coursework while another seven PhD students/graduates enroll in world-class programs. Our Brazilian partners will prove to be critical for this activity. We will add another 90 graduates from our self-sustainable Epidemiology Masters' program, ~25% conducting infectious diseases research and ~20% working in the public sector. Finally, we will train 200 undergraduate students in short research methods courses or laboratory/field rotations to establish the foundation of a new generation of scientists in Peru who can address the control of emerging and parasitic infections. The viability of our approach is supported by our substantial track record accomplished during our previous awards. We have provided international doctoral training for eight Peruvian scientists and five additional Masters' graduates have started doctoral coursework. Furthermore, we have offered our Masters' program seven years in a row training 184 Latin American students. Our consortium has published 60 papers and our Masters' students have produced 152 papers after graduation, duplicating their rate of articles published per year as compared to before their training. Moving forward, competitive research funding from the Department of Defense will be critical to provide long-term career sustainability to our trainees. Training will take place in a ich environment supported by DoD and NIH collaborations in extensive multi-year research projects. Our proposal is supported by a large pool of highly trained local and foreign mentors, sophisticated laboratories, and diverse field and clinical sites: 45 organizations, 32 PhD scientists residing permanently in Peru and 116 letters of support documents a solid regional collaboration.

Public Health Relevance Statement

PUBLIC HEALTH RELEVANCE: Emerging infections and parasitic diseases are primary concerns in Peru and South America. In the early 1990's Peru suffered a massive Cholera epidemic of great mortality and important economic effects. Dengue and malaria have re-emerged in the last 25 years and the H1N1 influenza pandemic caused important mortality. On the other hand, parasitic infections present both on epidemic and endemic contexts. Since the 2012 flood, malaria has increased substantially in the Amazon Basin, with twice as many cases of Plasmodium vivax and a three-fold increase in P. falciparum. Approximately 10,000 cases of leishmaniasis are seen annually, with a current focus in the Amazon region of Madre de Dios. Chagas disease, intestinal parasites and many other constitute endemic conditions of the country. Highly trained epidemiologists are needed to control the double threat of emerging and endemic infectious diseases.

NIH Spending Category

Antimicrobial Resistance Infectious Diseases Emerging Infectious Diseases HIV/AIDS

Vector-Borne Diseases Rare Diseases

Project Terms

Address Artemisinins Avian Influenza Caliber Award Centers for Disease Control and Prevention (U.S.) **Collaborations** Chikungunya virus Cone Country **Dengue Hemorrhagic Fever Department of Defense Doctor of Philosophy Enrollment Environment Epidemiology Funding Epidemiologist Face Foundations Generations** Guyana **Infectious Diseases Research** Infection Infectious Disease Epidemiology Thank you for your feedback!

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> **Latin American** Letters **Public Sector** Mentors **Paper** Parasitic infection Peru Peruvian Research **Research Methodology Publishing Research Personnel Research Project Grants Research Training Severe Acute Respiratory Syndrome** Solid Resources Rotation **Scientist**

Details

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Program Official Contact PI/ Project Leader Other Pls

Not Applicable Name Name

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Organization

Country PERU (PE)

2019

Name Department Type State Code

UNIVERSIDAD PERUANA CAYETANO Unavailable **Congressional District HEREDIA Organization Type**

City Unavailable LIMA

Other Information

FOA Administering Institutes or Centers **Project Start** 01-September-PAR-14-193 FOGARTY INTERNATIONAL CENTER Date 2005

Study Section **DUNS Number** CFDA Code **Project End Date** 28-February-Special Emphasis Panel ZRG1-934798430 989

<u>AARR-H(52)R</u>] 2020

Award Notice Date Fiscal Year **Budget Start** 05-March-2019

Budget End Date 28-February-

2020

Project Funding Information for 2019

Total Funding Direct Costs Indirect Costs \$261,622 \$250,048 \$11,574

Year **Funding IC FY Total Cost by IC** \$261,622 2019 FOGARTY INTERNATIONAL CENTER

NIH Categorical Spending

Click here for more information on NIH Categorical Spending

Date

01-March-2019

Funding IC	FY Total Cost by IC	NIH Spending Category
FOGARTY INTERNATIONAL CENTER	\$25,000	Antimicrobial Resistance; Emerging Infectious Diseases; HIV/AIDS; Infectious Diseases; Rare Diseases; Vector-Borne Diseases;
FOGARTY INTERNATIONAL CENTER	\$236,622	Antimicrobial Resistance; Emerging Infectious Diseases; Infectious Diseases; Rare Diseases; Vector-Borne Diseases;

品 Sub Projects

No Sub Projects information available for 5D43TW007393-15

Publications

No Publications available for 5D43TW007393-15

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No Patents information available for 5D43TW007393-15

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 5D43TW007393-15

Clinical Studies

No Clinical Studies information available for 5D43TW007393-15

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Related News Releases

No news release information available for 5D43TW007393-15

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No Historical information available for 5D43TW007393-15

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