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Clinical and genetic studies of hereditary neurological disorders in Mali

Project Number
3U01HG007044-07S1

Contact PI/Project Leader
LANDOURE, GUIDA

Awardee Organization
UNIV OF SCIENCES, TECH & TECH OF BAMAKO

Description

Abstract Text

Summary Despite the vast diversity of its populations, genetic studies in Africa have been limited. African populations, Malians in particular, have a high rate of intra-ethnic and consanguineous marriage, resulting in increased prevalence of autosomal recessive diseases. Family-based genetic studies can be limited in developed countries due to small sib ships. The average fertility rate in Mali is over 6 births per woman, offering a unique opportunity to find new **disease** genes or mutations that can then be studied in other populations. Neurological disorders present public health challenges globally with total disability- adjusted life years (DALYs) greater than some **infectious** diseases. These challenges are even greater when considering hereditary neurological diseases that cause premature death, severe disability and loss of productivity, resulting in high health care costs. Although most are currently untreatable, increasing awareness and community engagement about hereditary neurological disorders can reduce this burden. Our previous studies have established the molecular defects in a good number of families and identified variants in novel genes. Through genetic counseling and community engagement session, patients and families as well as their communities have gained knowledge regarding the cause of these diseases; lifting in part the psychosocial burden, and orienting their partner choice. However, more work is needed for a full understanding of the mechanism of these diseases. Despite the increased number of trained physicians and students in the characterization of these diseases and the basics in genetics, many other families haven't gotten access to medical genetic services. Standard genetic testing in several other families has been inconclusive, confirming our premise that Malians have specific phenotypic variants of hereditary neurological disorders that may be due to novel mutations or to mutations in as yet undiscovered genes. The infrastructures built with the previous award have created a suitable environment to perform state-of-art research and train the next generation African scientists. To ensure sustainability, African government should be fully engaged to empower genetic training and research funding. With this support, African scientists and clinicians would be ready to meet **emerging** medical genetics and genomic challenges. With the commitment of some African leaders and philanthropists, there is a hope that Africans will soon fund a big part of the research in Africa.

Public Health Relevance Statement

Project narrative This project will identify new clinical and genetic neurological entities that may be studied in other populations. Genetic counseling and community engagement will have more impact in decreasing stigma and perhaps decreasing the rate of consanguineous marriages with the effect of reducing the burden of recessive diseases in the Malian population. The acquired infrastructures will set the stage for training the next generation African scientists, and for scientific productivity and advances to ensure sustainability for future generations.

NIH Spending Category

Behavioral and Social Science | Biotechnology | Clinical Research | Genetic Testing | Genetics | Health Services | Human Genome | Neurosciences

Project Terms

Affect | Africa | Africa South of the Sahara | African | Award | Awareness | Biology | Birth | Cell Culture Techniques | Cessation of life | Clinical

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Genetic Diseases | Genetic Services | Genetic screening method | Genetic study

Read More

Details

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City
BAMAKO

Country
MALI (ML)

Department Type
Unavailable

Organization Type
Unavailable

State Code

Congressional District

Other Information

FOA
RFA-RM-16-015

Study Section
ZHG1-HGR-M(M1)

Fiscal Year	Award Notice Date
2019	28-August-2019

Administering Institutes or Centers
NATIONAL HUMAN GENOME RESEARCH INSTITUTE

DUNS Number **565539819**
CFDA Code **172**

Project Start Date	**27-September-2013**
Project End Date	**30-June-2022**
Budget Start Date	**28-August-2019**
Budget End Date	**30-June-2020**

Project Funding Information for 2019

Total Funding
$134,837

Direct Costs
$130,997

Indirect Costs
$3,840

Year	Funding IC	FY T
2019	NATIONAL HUMAN GENOME RESEARCH INSTITUTE	$134,837

NIH Categorical Spending

Click here for more information on NIH Categorical Spending

Funding IC	FY Total Cost by IC	NIH Spending Category
NATIONAL HUMAN GENOME RESEARCH INSTITUTE	$134,837	Behavioral and Social Science; Biotechnology; Clinical Research; Genetic

Thank you for your feedback!

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Awardee Organization
UNIV OF SCIENCES, TECH & TECH OF BAMAKO

No Sub Projects information available for 3U01HG007044-07S1

Publications

No Publications available for 3U01HG007044-07S1

Patents

No Patents information available for 3U01HG007044-07S1

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 3U01HG007044-07S1

Clinical Studies

No Clinical Studies information available for 3U01HG007044-07S1

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Related News Releases

No news release information available for 3U01HG007044-07S1

History

No Historical information available for 3U01HG007044-07S1

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No Similar Projects information available for 3U01HG007044-07S1

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