BUILDING SCALABLE PATHOGEN GENOMIC EPIDEMIOLOGY FOR ETHIOPIA

Fact Sheet

Project Information

EpiGen Ethiopia
Grant agreement ID: 101103188

DOI
10.3030/101103188

Funded under
Health

Total cost
€ 5 499 097,50

EU contribution
€ 5 499 097,50

Coordinated by
STICHTING AMSTERDAM INSTITUTE FOR GLOBAL HEALTH AND DEVELOPMENT
Netherlands

Start date
1 June 2023

End date
31 May 2028

Objective

The 21st century witnesses increased incidence of epidemics (Zika, dengue, Ebola, SARS), with as latest highlight the recent COVID-19. Following the outbreak of several infectious diseases during the last few decade, the need for generating real-time pathogen genomic data for public health action has become more important than ever. In the African context, infrastructure, human resource capability, data analysis, including bioinformatics, lack of linkage between clinical, epidemiological, and pathogen genomic data as well the interaction between clinicians, researchers and decision makers are some of the major challenges. The aim of the EpiGen
The project is to build a capacity for integrated pathogen genomic surveillance for informed public health decision process. The overarching specific objectives include strengthening collection and analysis of clinical and epidemiological data, enhancing the capacity and capability for pathogen genomic sequencing, including strengthening the laboratory infrastructure, human work force, pathogen genomic data analysis, and the integration of metadata with genomic data, developing and implementing innovative digital diagnostic platforms, creating semi-real time mobile phone applications for policy decisions, and promoting communities of practice and knowledge exchange through fostering African collaboration and networking in the domain of pathogen genomic surveillance for infectious diseases. EpiGen project’s multi-disciplinary consortium is drawn from several institutions from Ethiopia engaged in National Public Health Programs, and EU partners (The Netherlands, Spain and Germany). Overall, the model approach proposed by EpiGen will enhance Ethiopia’s national effort in mitigating the threat of infectious diseases. The implementation of a national genomic-informed surveillance for infectious diseases will play significant public health role towards contributing to disease prevention and control programmes in Ethiopia and beyond.

**Fields of science**

natural sciences > computer and information sciences > data science

natural sciences > biological sciences > genetics

medical and health sciences > health sciences > public health > epidemiology

medical and health sciences > health sciences > infectious diseases > RNA viruses > ebola

medical and health sciences > health sciences > infectious diseases > RNA viruses > coronaviruses

**Keywords**

Pathogen Genomic Sequencing  Public Health  Surveillance  Epidemiology

Infectious diseases  Emerging  emerging re-emerging  Africa  EDCTP3

**Programme(s)**

HORIZON.2.1 - Health  MAIN PROGRAMME

**Topic(s)**
HORIZON-JU-GH-EDCTP3-2022-CALL1-01-03 - Genomic epidemiology for surveillance and control of poverty-related and emerging/re-emerging infections in sub-Saharan Africa

Call for proposal

HORIZON-JU-GH-EDCTP3-2022-01

See other projects for this call

Funding Scheme

HORIZON-JU-RIA - HORIZON JU Research and Innovation Actions

Coordinator

STICHTING AMSTERDAM INSTITUTE FOR GLOBAL HEALTH AND DEVELOPMENT

Net EU contribution
€ 714 625,00

Address
Paasheuvelweg 25 tower c4
1105 BP Amsterdam
Netherlands

Region
West-Nederland > Noord-Holland > Groot-Amsterdam

Activity type
Research Organisations

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 0,00

Participants (11)
HEINRICH-HEINE-UNIVERSITAET DUESSELDORF

Germany

Net EU contribution

€ 401 125,00

Address

Universitaetsstrasse 1
40225 Dusseldorf

Region

Nordrhein-Westfalen > Düsseldorf > Düsseldorf, Kreisfreie Stadt

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding

€ 0,00

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FUNDACION PRIVADA INSTITUTO DE SALUD GLOBAL BARCELONA

Spain

Net EU contribution

€ 406 942,50

Address

C rossello 132 planta 05
08036 Barcelona

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
ETHIOPIAN PUBLIC HEALTH INSTITUTE

Ethiopia

Net EU contribution

€ 2 411 250,00

Address

Arbegnoch street gulelle sub city
Addis ababa

Activity type

Research Organisations

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

ARMAUER HANSEN RESEARCH INSTITUTE

Ethiopia

Net EU contribution

€ 349 750,00

Address

Jimma road alert compound
1005 Addis ababa

Activity type

Research Organisations

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
ARSI UNIVERSITY
Ethiopia
Net EU contribution
€ 130 550,00
Address
Asella
0000 Asella
SME
Yes
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

JIMMA UNIVERSITY
Ethiopia
Net EU contribution
€ 130 550,00
Address
Jimma university
Jimma
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
PHARMACCESS INTERNATIONAL
Netherlands
Net EU contribution
€ 458 705,00
Address
Paasheuvelweg 25
1105 BP Amsterdam
Region
West-Nederland > Noord-Holland > Groot-Amsterdam
Activity type
Other
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

MINISTRY OF HEALTH
Ethiopia
Net EU contribution
€ 108 375,00
Address
Addis ababa
Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

BAHIR DAR UNIVERSITY
Ethiopia
Net EU contribution
€ 130 550,00
Address
Bahir dar university
Bahir dar
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

SAINT PAUL MILLENNIUM MEDICAL COLLEGE
Ethiopia
Net EU contribution
€ 126 125,00
Address
Swaziland street
33250 Addis ababa
Activity type
Research Organisations
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
HAWASSA UNIVERSITY

Ethiopia

Net EU contribution

€ 130 550,00

Address

Hawassa city misrak sub city tesso kebele
Hawassa

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation

Participation in EU R&I programmes

HORIZON collaboration network

Other funding

€ 0,00

EC signature date 29 June 2023
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European Union, 2023