

GenPath Africa

GENOMIC SURVEILLANCE TO CONTROL PATHOGEN INFECTIONS IN AFRICA



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FACT SHEET

ACRONYM

GenPath Africa

FULL TITLE

Genomic surveillance to control pathogen infections in Africa

PROGRAMME

EDCTP3

CONTRACT NUMBER

Grant Agreement N° 101103171

ABSTRACT

The overall goal of GenPath Africa is to control pathogen infections in Africa. The consortium of African and European investigators builds on their collective experience in responding to SARS-CoV-2 to better diagnose, monitor and clinically manage current and future epidemics in Africa.

GenPath Africa will expand genomics capacity to combat drug resistant HIV-1 and TB through precision medicine and by using genomic epidemiology to guide the public health response. Recent developments in wastewater and One Health surveillance will be applied to detect emerging pathogens. In addition, capacity development activities will include degree training in South Africa, the transfer of technology to the National Public Health Institute of Mozambique and the South African National Health Laboratory Service, and the collaboration with other key players and existing networks across the continent to harmonise training materials.

Through these activities we aim to make precision medicine and precision public health a reality in southern and eastern Africa.

In its mission to advance the impact of genomic surveillance, GenPath Africa has strong partners by its side. It is one of six projects that were created to form a Genomic Epidemiology Network in Sub-Saharan Africa. Together, this powerful new partnership aims to:

- Increase the use of genomic epidemiology across Africa to answer critical public health questions.
- Create data platforms through which integrated epidemiologic, clinical, and genomic data can be collected and combined.
- Implement selected pilot projects that apply genomic epidemiology to specific disease areas and use the results to inform public health decision-making and product development.
- Establish a community of practice, training programmes, and fellowship opportunities in genomic epidemiology on the continent.

DURATION

48 months (01/05/2023 – 30/04/2027)

PROJECT FUNDING

4,999,170.25 EUR

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**Co-funded by
the European Union**

This project (Grant Agreement no 101103171) is supported by the Global Health EDCTP3 Joint Undertaking and its members as well as Bill & Melinda Gates Foundation.

Funded by the European Union under the Global Health EDCTP3 Joint Undertaking. Views and opinions expressed are however those of the authors only and do not necessarily reflect those of the Global Health EDCTP3 Joint Undertaking nor its contributing partner that is not part of the consortium (Bill & Melinda Gates Foundation). Neither of the aforementioned parties can be held responsible for them.