

SeqAfrica: Project Impact Fact Sheet


Overview

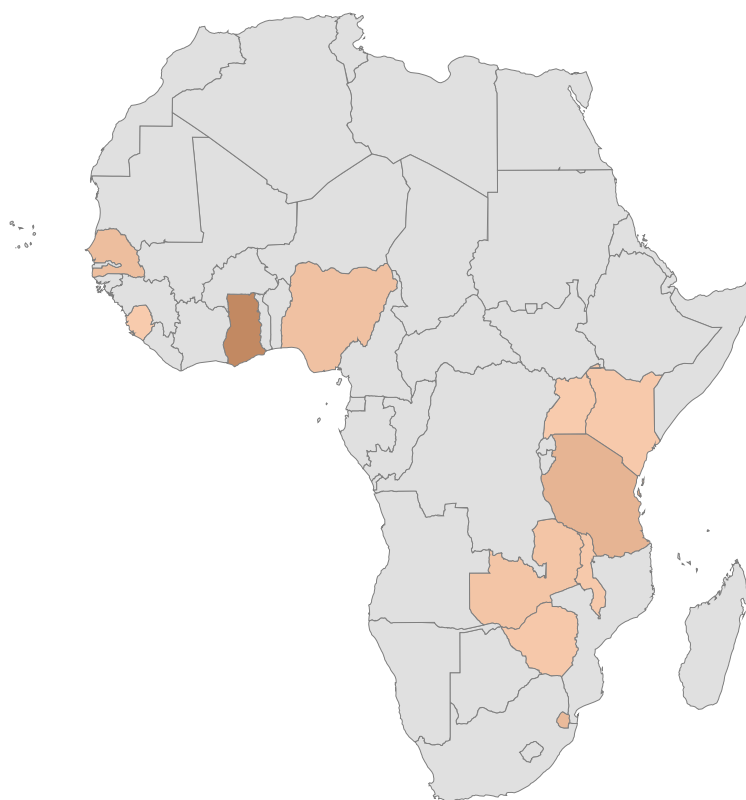
SeqAfrica was a two-phase UK International Development Fleming Fund–supported regional project that strengthened whole genome sequencing (WGS) and bioinformatics capacity across Africa to support antimicrobial resistance (AMR) surveillance. Through regional sequencing centers and targeted training, the project supported laboratories in improving genomic workflows, data quality, and cross-sectoral collaboration in 11 countries receiving Fleming Fund Country Grants.

Whole Genome Sequencing

A total of 10,134 genomes were generated/analyzed for Fleming Fund Country Grant countries in the SeqAfrica project in both Phase I and Phase II.

Genomes Per Country

Number of Genomes 
 9 10137



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Country Dashboard:

Eswatini

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Genomic Proficiency Testing (i.e., External Quality Assessment of WGS)
- Training in bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

5
Professionals trained, Phase II

1219
Genomes generated, both phases

Ghana

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Training in bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

25
Professionals trained, Phase II

4714
Genomes generated, both phases

Kenya

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Genomic Proficiency Testing (i.e., External Quality Assessment of Whole Genome Sequencing)
- Training in Bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

28
Professionals trained, Phase II

139
Genomes generated, both phases

Nigeria

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Genomic Proficiency Testing (i.e. External Quality Assessment of Whole Genome Sequencing)
- Training in Bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

20

Professionals trained, Phase II

697

Genomes generated, both phases

Malawi

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Genomic Proficiency Testing (i.e. External Quality Assessment of Whole Genome Sequencing)
- Training in Bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

20

Professionals trained, Phase II

146

Genomes generated, both phases

Senegal

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Genomic Proficiency Testing (i.e., External Quality Assessment of Whole Genome Sequencing)
- Training in Bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

15

Professionals trained, Phase II

940

Genomes generated, both phases

Sierra Leone

Areas of collaboration between laboratories and the SeqAfrica project included:

- Training in Bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

14
Professionals trained, Phase II

27
Genomes generated, both phases

Tanzania

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Genomic Proficiency Testing (i.e., External Quality Assessment of Whole Genome Sequencing)
- Training in Bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

14
Professionals trained, Phase II

1619
Genomes generated, both phases

Uganda

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Genomic Proficiency Testing (i.e., External Quality Assessment of Whole Genome Sequencing)
- Training in Bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

5
Professionals trained, Phase II

437
Genomes generated, both phases

Zambia

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Genomic Proficiency Testing (i.e., External Quality Assessment of Whole Genome Sequencing)
- Training in Bioinformatics for WGS sequencing analysis for AMR pathogens

SeqAfrica In-Country Impact:

16
Professionals trained, Phase II

437
Genomes generated, both phases

Zimbabwe

Areas of collaboration between laboratories and the SeqAfrica project included:

- Whole genome sequencing of bacterial isolates
- Genomic Proficiency Testing (i.e., External Quality Assessment of Whole Genome Sequencing)
- Training in Bioinformatics for WGS sequencing analysis for AMR pathogens
- Participation in a simulated exercise of an AMR outbreak

SeqAfrica In-Country Impact:

23
Professionals trained, Phase II

187
Genomes generated, both phases