



Human Heredity and  
Health in Africa (H3Africa)

# 8 Years of Genomic Research in Africa

This data covers the SFA Foundation component of H3Africa funded by Wellcome

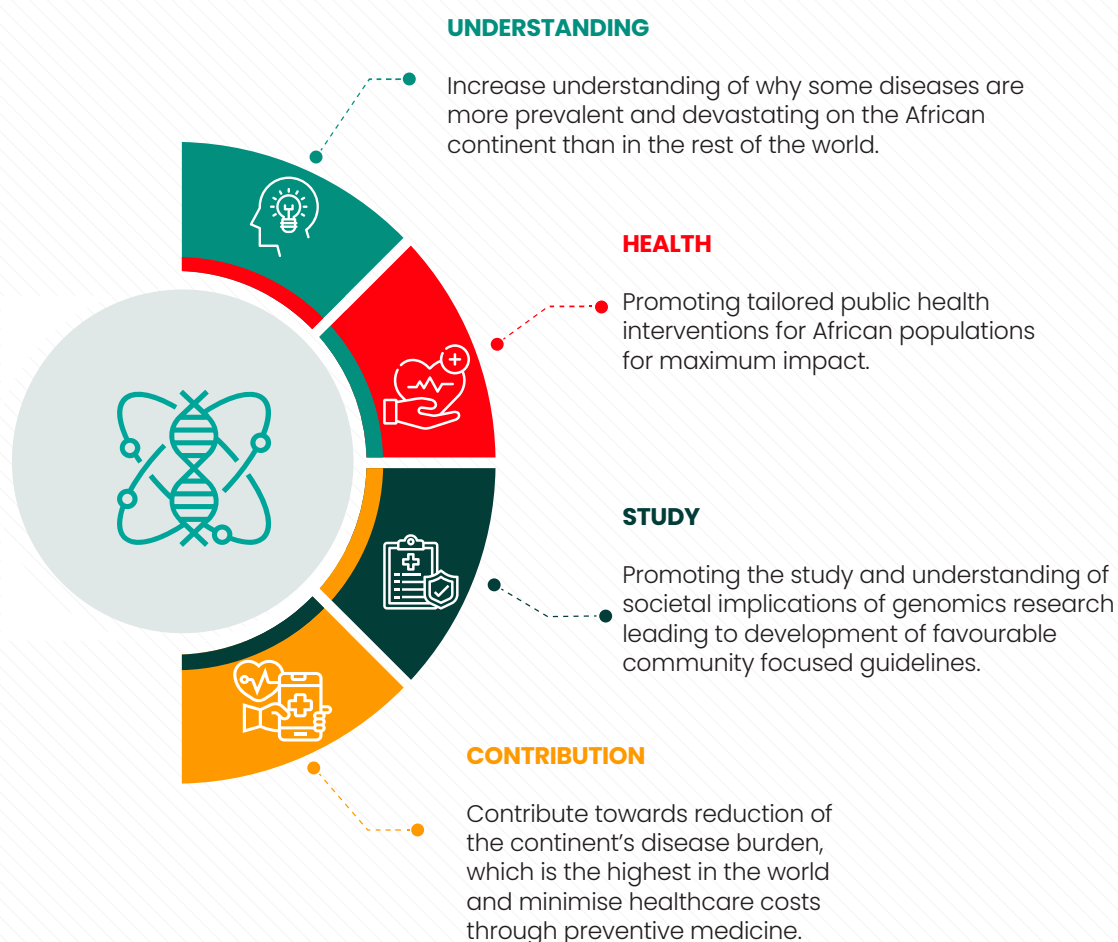
# Background

The medical field is increasingly shifting from a one shoe fits all approach to personalized medicine. These developments are informed by new data resulting from improved advances in the genomics field. Unfortunately, although the African continent is home to ~1.3 billion people with the greatest genetic diversity globally, this diversity remains understudied. For the continent to enjoy the benefits of the genomic revolution and for the rest of the world to better understand the role of human genes in disease, it is imperative that we extensively study the genome of the African people. The Human Heredity and Health in Africa (H3Africa) program seeks to build human capacity and other infrastructure

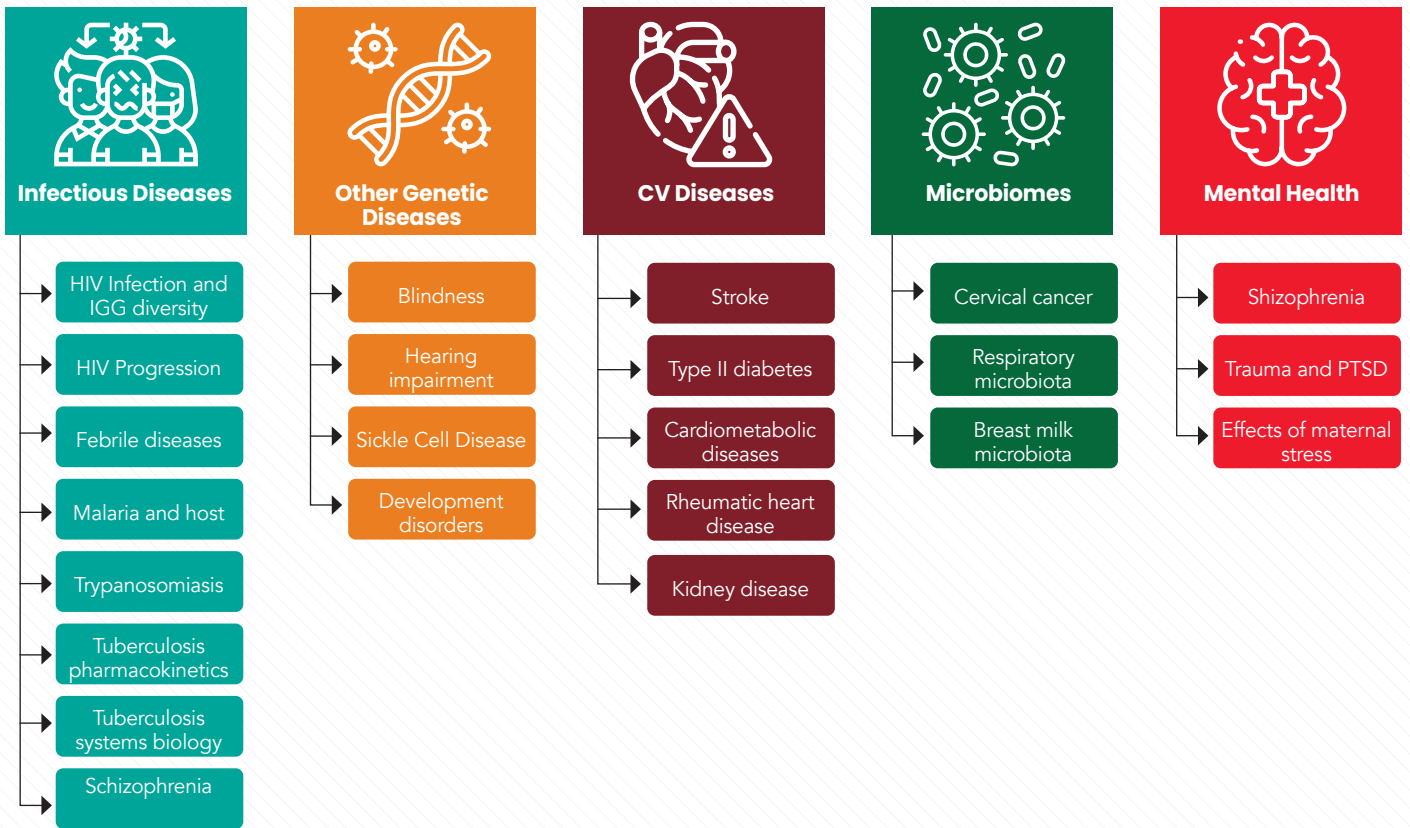
necessary for the African continent to benefit from the genomic revolution.

The Human Heredity and Health in Africa (H3Africa) is a major programme initiated in 2010 by the **National Institute of Health (NIH)**, **Wellcome**, and **African Society of Human Genetics (AfSHG)**. H3Africa supports population-based studies that use genetic, clinical and epidemiological tools to better understand the interplay between human genes and the environment and its effect on disease susceptibility, pathogenesis and prevention with the goal of improving the health of African populations.

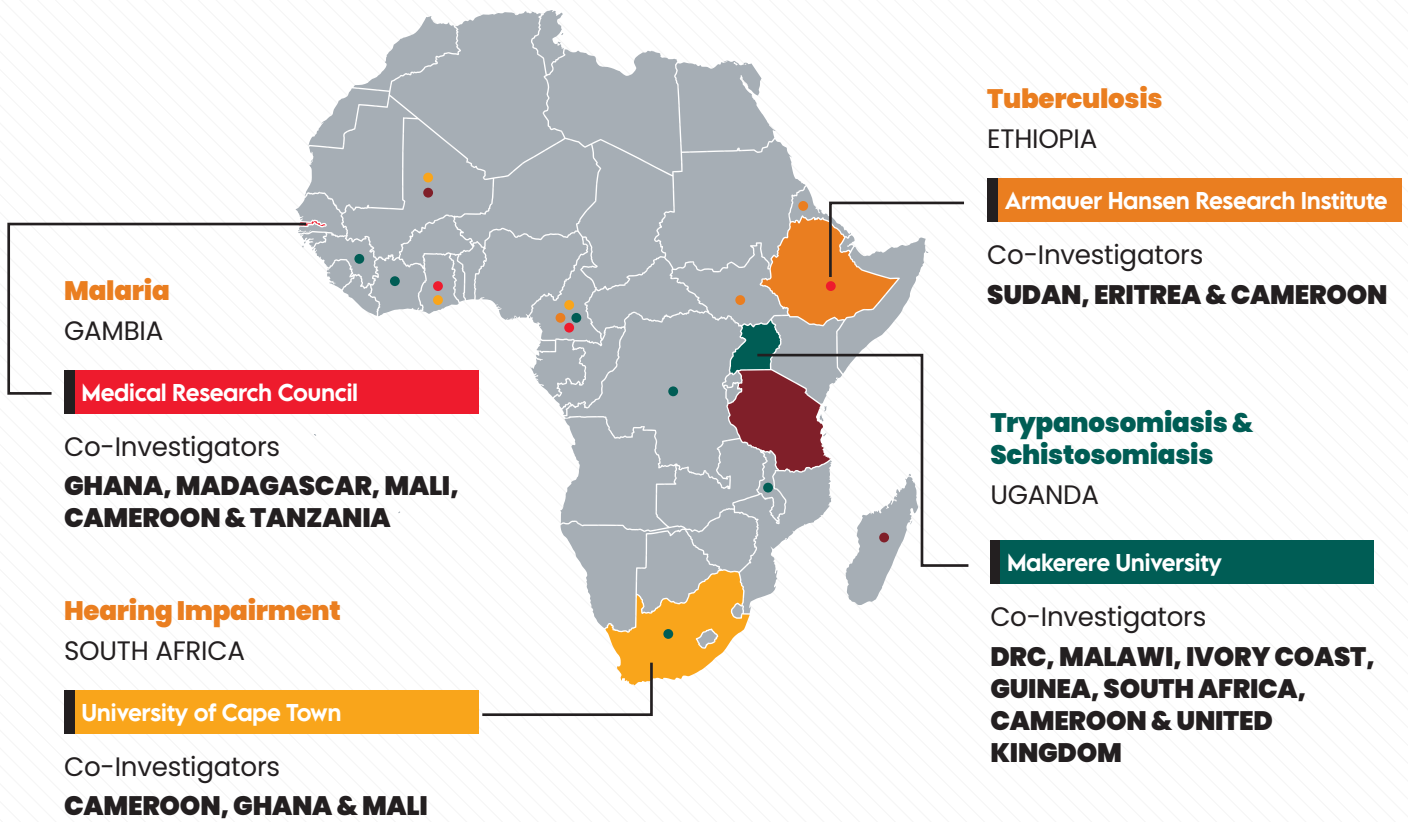
## Importance of genomics research for Africa in mapping the genetic diversity of Africans



## H3Africa disease focus areas



## H3Africa grantees spread



## KEY



Makerere University Co-Investigators



University of Cape Town Co-Investigators



Medical Research Council Co-Investigators



Armauer Hansen Research Institute Co-Investigators

## H3Africa lead institutions and co-investigators

<b>Armauer Hansen Research Institute</b>	<b>Ethiopia</b>
Institute of Endemic Disease, University of Khartoum	Sudan
Eritrea Institute of Technology, Asmara	Eritrea
University of Buea	Cameroon
<b>College of Veterinary Medicine, Animal Resources and Biosecurity, Makerere University</b>	<b>Uganda</b>
Institute nationale des Rescherche Biomedicale (INRB)	DRC
Human African Trypanosomiasis National Control Program (PNLTHA)	Guinea
Faculty of Science, University of Dschang	Cameroon
Universite Jean Lorougnon Guede	Ivory Coast
College of Medicine, University of Malawi	Malawi
Uganda Virus Research Institute, Entebbe	Uganda
Rhodes University	South Africa
University of Liverpool	United Kingdom
University of Glasgow	United Kingdom
<b>Medical Research Council</b>	<b>The Gambia</b>
University of Ghana	Ghana
Addis Ababa University	Ethiopia
University of Buea	Cameroon
<b>National Institute for Medical Research (NIMR)</b>	<b>Tanzania</b>
Institut Pasteur de Madagascar	Madagascar
University of Science Technical and Technology of Bamako	Mali
<b>University of Capetown</b>	<b>South Africa</b>
University of Ghana	Ghana
University of Yaounde	Cameroon
University of Science, Technical and Technology of Bamako	Mali

## H3Africa achievements at a glance



### Key Milestones

**4**

projects focusing on malaria, tuberculosis, hearing impairment, and neglected tropical diseases (trypanosomiasis and schistosomiasis)

**15**

countries in east, west, south and central Africa

**22**

institutions

**25**

investigators

**\$11M**

invested over xxyears, 20xx-20xx



### Genomics Research

**27**

awards, prizes & recognitions amounting to \$5M by PhD students

**\$862,334**

Additional funding to current H3Africa awards

**9**

new collaborations established

**25**

investigators

**52**

peer reviewed journals/ publications



### Data Governance

**30**

data requests reviewed by the H3Africa's Data and Biospecimen Access Committee (DBAC)

**9**

requesters granted access to H3Africa data

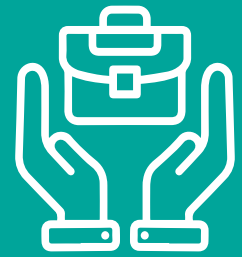


### Capacity Building

**49**

Masters, PhDs, Post docs trained

H3AFRICA  
IN NUMBERS



---

**\$176M**

Overall  
monetary  
investment  
by NIH /  
Wellcome  
Trust



---

**+500**

Consortium  
Members

## 8 years of Genomic research in Africa

This data covers the SFA Foundation component of H3Africa funded by Wellcome



Riverside Drive, Chiromo, Nairobi, Kenya  
E-Mail: [info@scienceforafrica.foundation](mailto:info@scienceforafrica.foundation)  
T: +254 705 199 199  
[www.scienceforafrica.foundation](http://www.scienceforafrica.foundation)

