

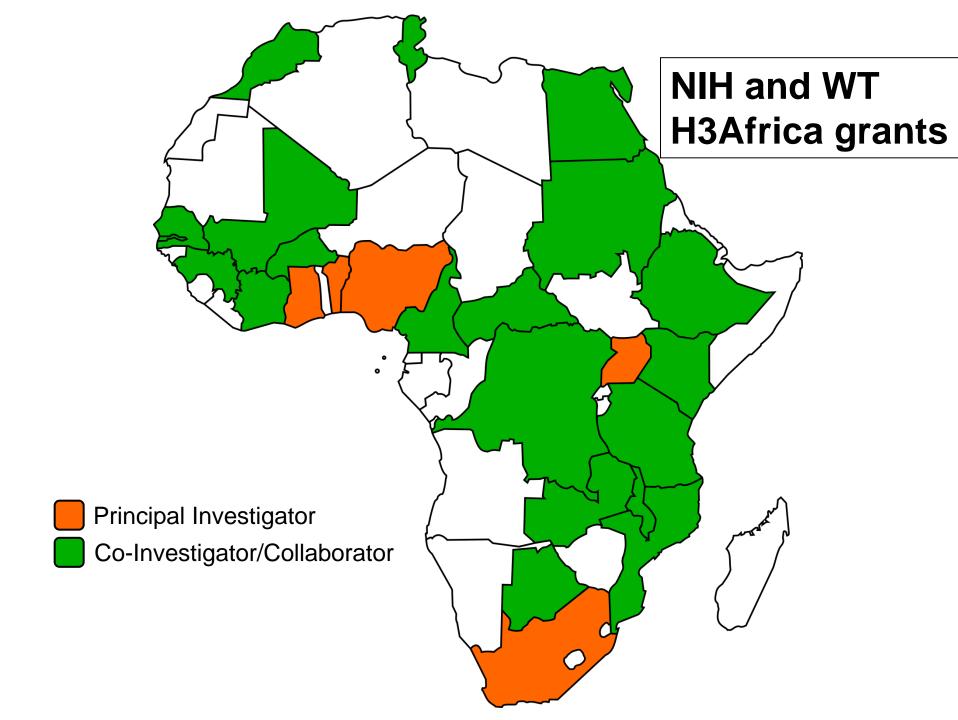
Human Heredity and Health in Africa

Inaugural Consortium Meeting Addis Ababa

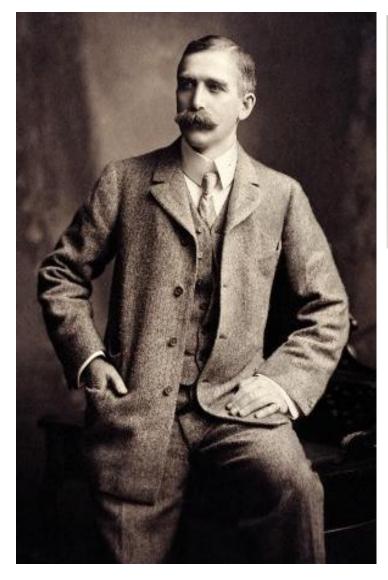
October 8-10 2012

Pat Goodwin

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Sir Henry Wellcome 1853 - 1936





"Research Fund .. for the advancement of research ... which may conduce to the improvements of the physical conditions of mankind ... and in particular for ... medicinal agents and methods for prevention and cure of disorders ... in tropical and other regions."



The Wellcome Trust

- an independent researchfunding charity funded from private endowment managed for long-term stability and growth
- total spend approx £600M per annum (2011)
- a long history of support for research in Africa
- a significant international player in genetics and genomics research

The Wellcome Building 183 Euston Road Wellcome Collection





The Gibbs Building 215 Euston Road Trust Office



The Wellcome Trust

Strategic Plan 2010-200 Extraordinary Opportunities Our **vision** is to achieve extraordinary improvements in human and animal health

Our **mission** is to support the brightest minds in biomedical research and the medical humanities

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Five major challenges...

Maximising the health benefits of genetics and genomics

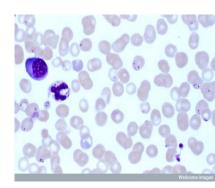
Understanding the brain

Combating infectious diseases

Investigating development, ageing & chronic disease

Connecting environment, nutrition and health







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Support for research in Africa

 First research grant (1938) to Henry Foy to work on malaria

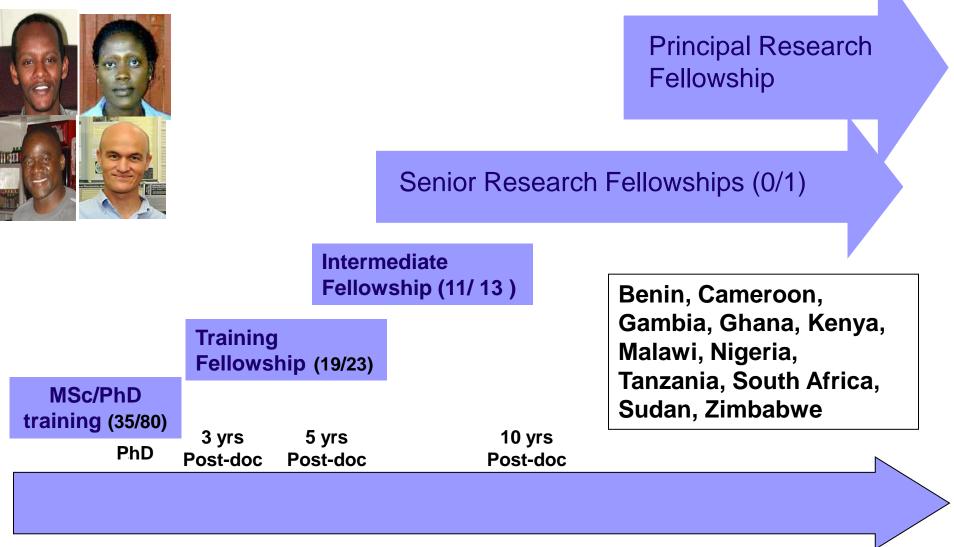


- Fellowships in Public Health and Tropical Medicine
- Research and Capacity Building Programmes





Fellowship schemes for developing country researchers



() - Number of awards 2006 to date for African scientists/total number of awards

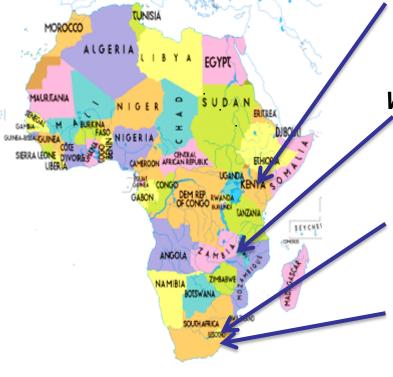
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Support for research in Africa Major Programmes

Pan-African Programmes

Indepth

African Institutions Initiative



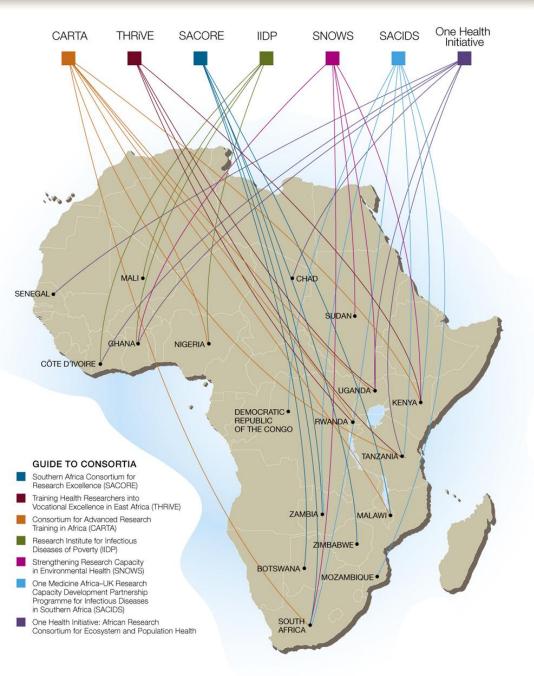
KEMRI-Wellcome Trust Programme

Malawi-Liverpool-Wellcome Trust Clinical Programme

The Africa Centre for Health and Population Studies

Birth to Twenty (Wits)

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African Institutions Initiative

Aim: to build a critical mass of research capacity in Africa by supporting networks and strengthening infrastructure

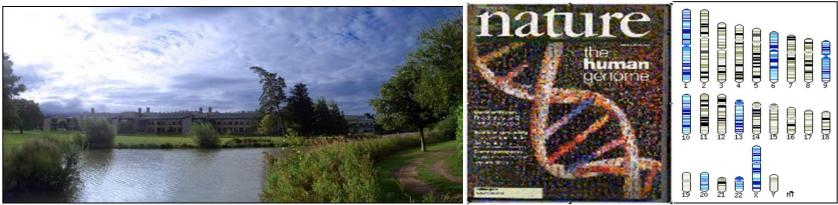
• £28m in total

•7 awards to consortia involving 70 institutions,51 from Africa

 5 year period starting August 2009 (renewable)

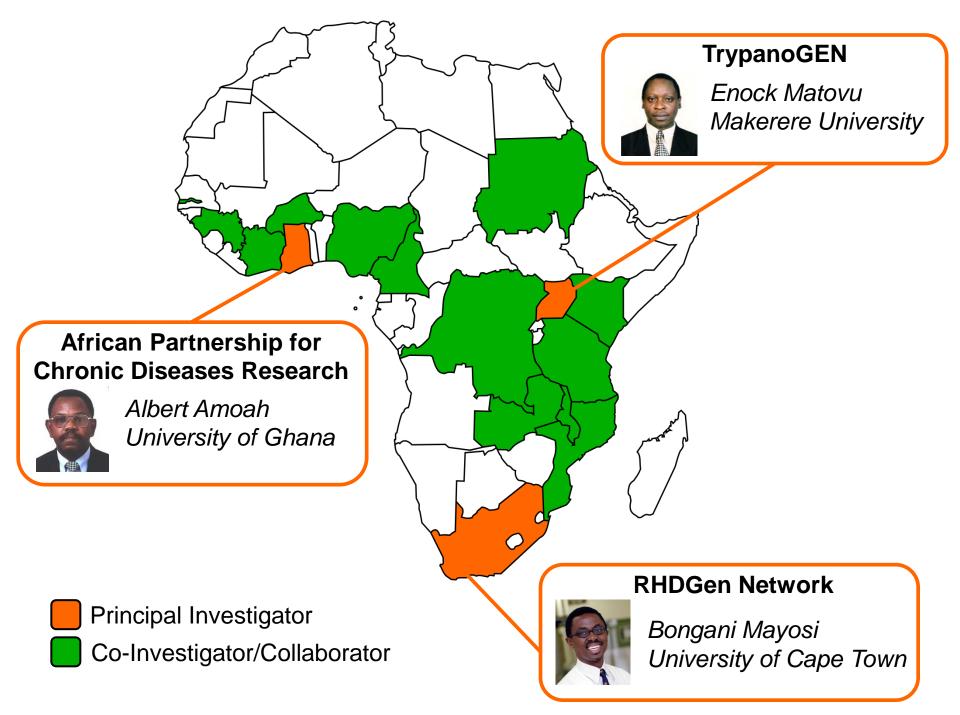
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Support for research in genetics/genomics



- Human Genome Project
- International HapMap Project
- Wellcome Trust Case Control Consortium
- 1000 Genomes Project
- ENCODE





Wellcome Trust H3Africa Research Networks

Albert Amoah (University of Ghana) Burden, spectrum and aetiology of type 2 diabetes in sub-Saharan Africa *Cameroon, Ghana, Malawi, Nigeria, South Africa, Tanzania, Uganda*

Enock Matovu (Makerere University, Uganda) TrypanoGen: an integrated approach to the identification of genetic determinants of susceptibility to trypanosomiasis (Burkino Faso, Cameroon, DRC, Malawi, Tanzania, Uganda)

Bongani Mayosi (University of Cape Town, South Africa) Genetics of rheumatic heart disease and the molecular epidemiology of Streptococcus pyogenes pharyngitis (the RHDGen Network).

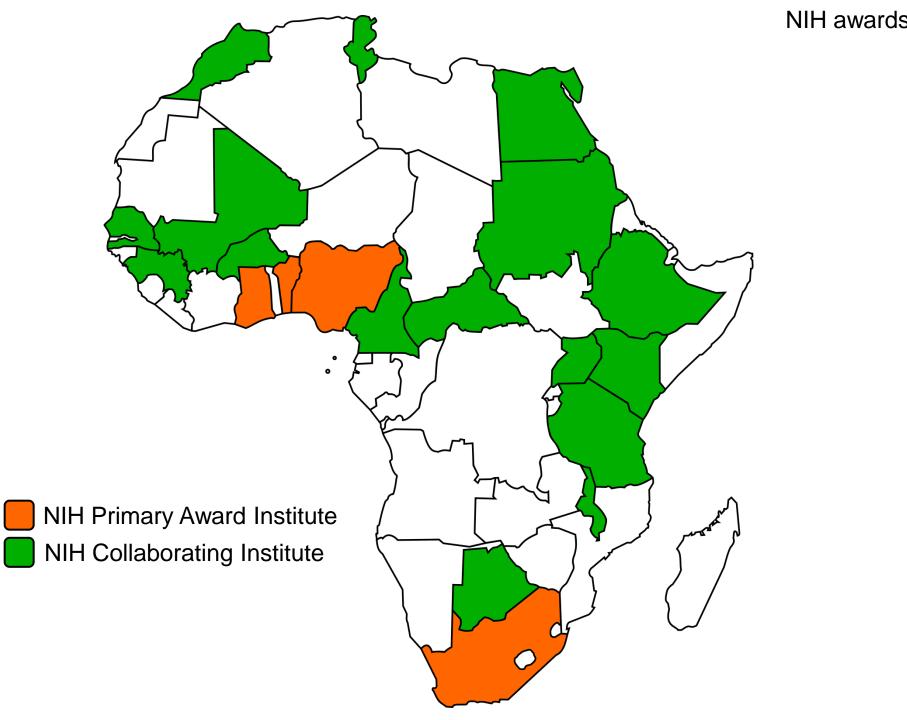
(Kenya, Mozambique, Nigeria, South Africa, Sudan, Uganda, Zambia)

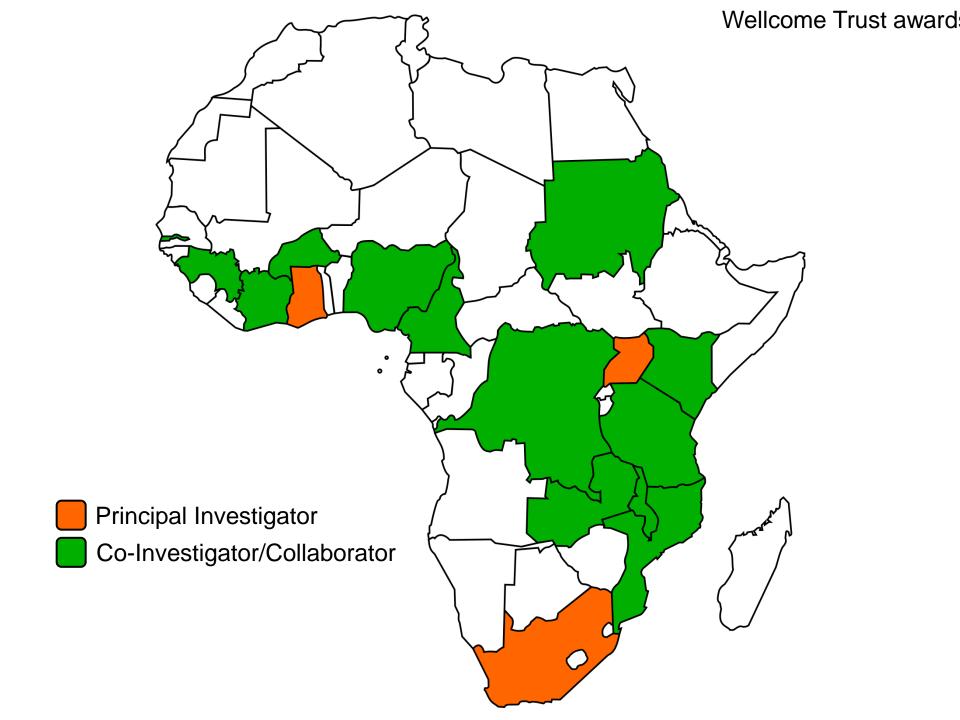




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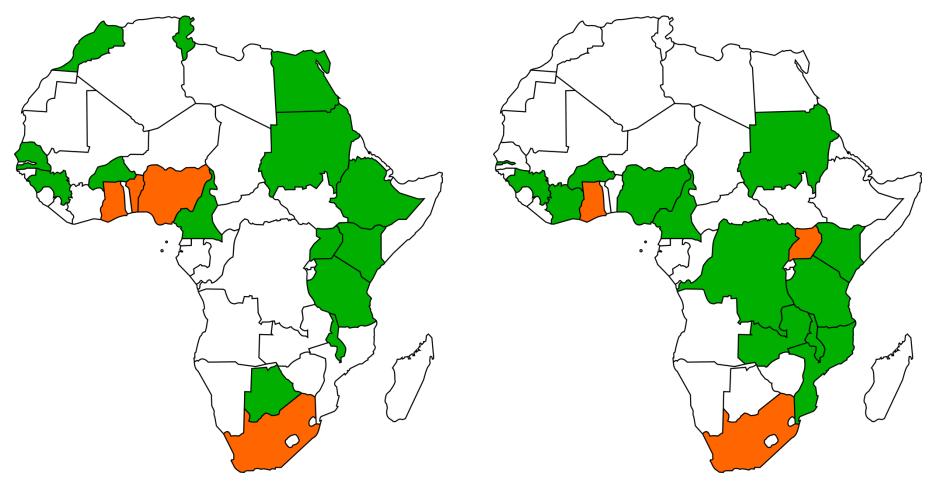






NIH awards

Wellcome Trust awards



Principal Investigator
Co-Investigator/Collaborator

National Institutes of Health - H3Africa Research Network

Nigeria

South Africa



Alash'le Abimiku Institute of Human Virology Nigeria, Nigeria IHVN H3Africa Biorepository (I-HAB)



Dwomoa Adu and Akinlolu Ojo University of Ghana Medical School & University of Michigan, Ghana & USA H3Africa Kidney Disease Research Network



Dissou Affolabi

National Hospital for Tuberculosis and Pulmonary Diseases, Benin Contribution of genetic variation to pharmacokinetic variability and toxicity in patients undergoing multi-drug tuberculosis treatment in Sub-Saharan Africa: RAFAgene project



Michele Ramsay University of the Witwatersrand & NHLS, South Africa Genomic and environmental risk factors for cardiometabolic disease in Africans

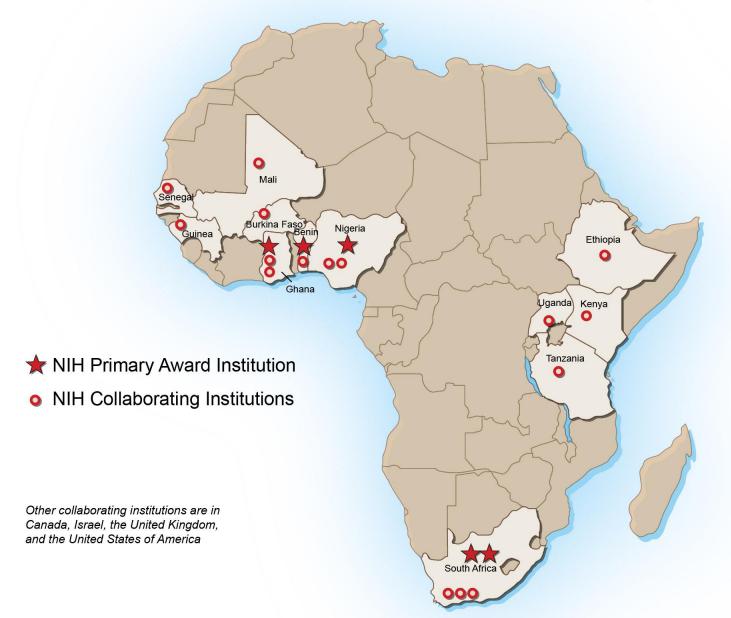


Akin Abayomi Stellenbosch University, South Africa Development of stem cell, blood & DNA bio repositories to facilitate studies on Health, Disease & Pharmacogenomics of African Populations

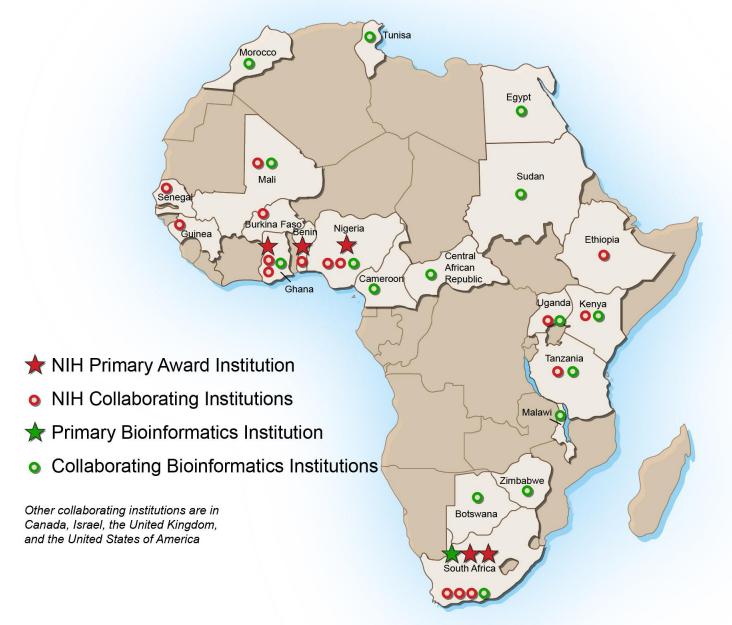


Nicola Mulder University of Cape Town, South Africa H3ABioNet: a sustainable African Bioinformatics Network for H3Africa

National Institutes of Health - H3Africa Research Projects



National Institutes of Health - H3Africa Research Network



National Institutes of Health - Wellcome Trust H3Africa Research Network

