Human Heredity and Health in Africa

Inaugural Consortium Meeting
Addis Ababa

October 8-10 2012

Pat Goodwin
NIH and WT H3Africa grants

- Principal Investigator
- Co-Investigator/Collaborator
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 research-funding 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 Trust

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.
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
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

MSc/PhD training (35/80)

Training Fellowship (19/23)

Intermediate Fellowship (11/13)

Senior Research Fellowships (0/1)

Benin, Cameroon, Gambia, Ghana, Kenya, Malawi, Nigeria, Tanzania, South Africa, Sudan, Zimbabwe

( ) - Number of awards 2006 to date for African scientists/total number of awards
Support for research in Africa

Major Programmes

KEMRI-Wellcome Trust Programme
Malawi-Liverpool-Wellcome Trust Clinical Programme
The Africa Centre for Health and Population Studies
Birth to Twenty (Wits)

Pan-African Programmes

Indepth
African Institutions Initiative
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)
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)_
National Institutes of Health - H3Africa Research Network

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

- NIH Primary Award Institution
- NIH Collaborating Institutions

Other collaborating institutions are in Canada, Israel, the United Kingdom, and the United States of America.
National Institutes of Health - Wellcome Trust H3Africa Research Network

- ★ NIH Primary Award Institution
- ○ NIH Collaborating Institutions
- ★★ WT Primary Award Institution
- ○○ WT Collaborating Institutions

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