



H3Africa

Human Heredity and Health in Africa

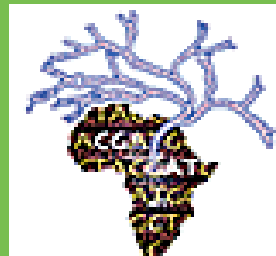


The Human Heredity and Health in Africa Consortium

3-6 October 2013, Johannesburg, South Africa

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Wellcome Trust

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Genomics research in Africa

- African populations and their genetic variation are **understudied**
- African researchers are **under-represented** in modern genetics and genomics research
- Capacity to undertake population-based genetics and genomics research in Africa is **under-developed**



H3Africa

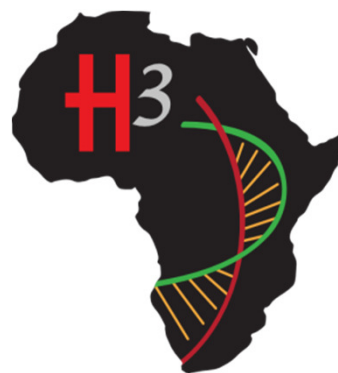
The origins of the H3Africa Initiative

- First discussed at an AfSHG meeting in Cairo
- Advanced at funding agencies by Francis Collins, Charles Rotimi and Mark Walport
- H3Africa was selected as an NIH Common Fund project (current budget \$10M/year) and approved for funding by the WT (current budget £10M)



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NIH



AfSHG

Formal launch

In Addis Ababa, Ethiopia in October 2012



The Goals of H3Africa

- Increase the number of African scientists who are internationally competitive in genomics and population-based research
- Establish collaborative networks of African investigators pursuing genomics-based disease-oriented projects
- Create/expand infrastructure for genomics research, including bioinformatics and biorepositories



Distinguishing features of H3Africa projects

- Awards are made directly to African Institutes & PIs
- Projects comprise a research network of multiple sites
- Data must be shared through a public repository
- Must deposit biospecimens in H3Africa Biorepository
- Must include training and capacity building
- Must use the H3Africa bioinformatics network – H3ABioNet
- May include societal implications research



H3Africa

- The H3Africa consortium has funded 20 projects
 - A bioinformatics network
 - 4 pilot biorepositories
 - 15 Research Projects working on:
 - **Obesity**
 - **Stroke**
 - **Microbiome (2)**
 - **Trypanosomes (2)**
 - **Schizophrenia**
 - **Rare neurological Disorders**
 - **TB (2)**
 - **Sickle Cell Disease (ethics)**
 - **Kidney disease**
 - **Heart disease**
 - **Diabetes**
 - **Fevers of unknown origin**



National Institutes of Health - Wellcome Trust H3Africa Research Network



27 countries, 20 primary awards and 93 collaborators



**Third H3Africa Consortium Meeting in Johannesburg, South Africa
3-6 October 2013**

Questions?

