NIHR GLOBAL HEALTH RESEARCH UNIT TACKLING INFECTIONS TO BENEFIT AFRICA AT THE UNIVERSITY OF EDINBURGH



TIBA

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NHS
National Institute for Health Research

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4 April 2017

Professor Mark Woolhouse, OBE
Chair of Infectious Disease Epidemiology
The University of Edinburgh
Ashworth Laboratories
Kings Buildings
Charlotte Auerbach Road
Edinburgh
EH9 3FL
Scotland

Dear Professor Woolhouse

Project number 16/136/33 : NIHR Global Health Research Unit

Thank you for submitting a proposal for consideration by the NIHR Global Health Research Programme.

Following the NIHR Global Health Research Panel meeting on 6 and 7 March 2017 I am pleased to inform you that the NIHR Global Health Research Panel has recommended your proposal for funding, subject to confirmation that you will reflect the panel comments below in your planned programme of work, and to your responses to any points regarding clarification of your proposed budget below.

Please would you inform your co-applicants of this decision.

Please note this is an award in principle. The award cannot be confirmed until the contract has been agreed and signed by all parties. Therefore, please keep the outcome confidential until you have been notified that the Department of Health embargo period on public announcement has ended.



WITH THANKS TO:

tiba

Berhanu Abegaz
Aggrey Ambali
Gordon Awandare
Janet Byaruhanga
Moses Chimbari
Sam Kinyanjui
Mwele Malecela
Olawale Maiyegun
Maowia Mukhtar
Paul Ndebele
Faith Osier
Nthabi Phaladze
Nadine Rujeni
Simba Rusakaniko
Elopy Sibanda
Nelson Torto
Charles Waiswa

Dave Arnot
Till Bachmann
Geoff Banda
Mark Blaxter
Harry Campbell
Ross Fitzgerald
Liz Fletcher
Liz Grant
Keith Matthews
Francisca Mutapi
Andrew Rambaut
Susan Rosser
Alex Rowe
James Smith
Devi Sridhar
Joyce Tait
Sue Welburn

Paula Brydges
Catherine Burns
Fiona Edler
Tammy Kelly-Wright
Hamish Macandrew
Andrew Millar
Andy Mount
Gareth Poxon
Jonathan Seckl
Hilary Snaith
Kath Tracey
Brian Walker
Mark Woolhouse

NHS National Institute for Health Research



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

A partnership between:

University of Edinburgh, UK
University of Botswana
University of Ghana
KEMRI-WT, Kenya
University of Rwanda
University of Kwazulu-Natal, South Africa
University of Khartoum, Sudan
NIMR, Tanzania
COCTU, Uganda
University of Zimbabwe





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Our vision:

To harness the expertise and technical capability in biomedical and social sciences at the University of Edinburgh and African partners to reduce the burden and threat of infectious diseases in Africa by informing and influencing health policy and strengthening health systems.

TIBA is an Africa-led, wide-ranging, multi-disciplinary research programme that explores and draws lessons from the ways that different African health systems tackle infectious diseases.



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Our context:

Partner countries population total ≈ 300M

Population living in poverty ≈ 75M

Health care spend (public funds) ≈ US$20B

TIBA beneficiaries ≈ 50M people

Achieved by: improving health policy, health systems operation and health R&D environment in Africa partner countries and beyond



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Our science:

Disciplines - infection biology, clinical medicine, primary health care, health systems, international development, governance and ethics, diagnostics, surveillance and epidemiology, molecular biology and drug development, immunology and vaccinology, genomics and bioinformatics, synthetic biology, innovation

Diseases - schistosomiasis, malaria, trypanosomiasis, lymphatic filariasis, co-morbidities, NCDs + emerging infectious diseases



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Our aims:

1. Improve the diagnosis and surveillance of infectious diseases in resource-poor settings
2. Improve the deployment of existing drug treatments and enhance local capacity to develop new ones
3. Improve the deployment of existing vaccines and enhance local capacity to develop new ones
4. Improve the management of endemic and epidemic infectious diseases by:
    i. Strengthening health systems, governance and ethics
    ii. Improving policy development and implementation
    iii. Enhancing capacity to respond to infectious disease emergencies



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Our budget:

Just under £7M over 4 years

+ in kind contributions

>80% allocated to Africa partners



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Ghana partner:

Dr Gordon Awandare

Head,
West Africa Centre of Excellence for Cell Biology and Infectious Pathogens

University of Ghana



Flashback: Dr. Gordon Awandare (left) receiving an Award for Meritorious Service at University Congregation from Chancellor Kofi Annan, July 2014



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

South Africa partner:

Professor Moses Chimbari

Dean of Research,
College of Health Sciences,

University of Kwazulu-Natal,
South Africa



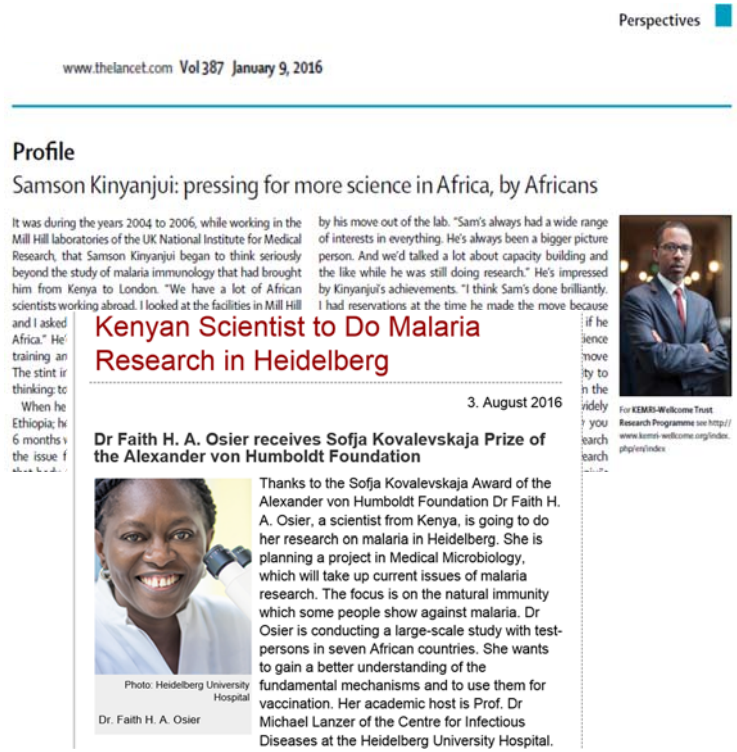


TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Kenya partners:

Dr Samuel Kinyanjui
Head of Training and Capacity Building,
KEMRI-WT Programme,
Kilifi

Professor Faith Osier
University of Heidelberg, Germany and
KEMRI Centre for Geographic Medicine Research



Perspectives

www.thelancet.com Vol 387 January 9, 2016

Profile

Samson Kinyanjui: pressing for more science in Africa, by Africans

It was during the years 2004 to 2006, while working in the Mill Hill laboratories of the UK National Institute for Medical Research, that Samson Kinyanjui began to think seriously beyond the study of malaria immunology that had brought him from Kenya to London. "We have a lot of African scientists working abroad. I looked at the facilities in Mill Hill and I asked Africa." He' training an The stint ir thinking: to When he Ethiopia; h 6 months the issue f

by his move out of the lab. "Sam's always had a wide range of interests in everything. He's always been a bigger picture person. And we'd talked a lot about capacity building and the like while he was still doing research." He's impressed by Kinyanjui's achievements. "I think Sam's done brilliantly. I had reservations at the time he made the move because

For KEMRI-Wellcome Trust Research Programme see http://www.kemri-wellcome.org/index.php/en/index

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Kenyan Scientist to Do Malaria Research in Heidelberg

3. August 2016

Dr Faith H. A. Osier receives Sofja Kovalevskaja Prize of the Alexander von Humboldt Foundation

Photo: Heidelberg University Hospital

Dr. Faith H. A. Osier

Thanks to the Sofja Kovalevskaja Award of the Alexander von Humboldt Foundation Dr Faith H. A. Osier, a scientist from Kenya, is going to do her research on malaria in Heidelberg. She is planning a project in Medical Microbiology, which will take up current issues of malaria research. The focus is on the natural immunity which some people show against malaria. Dr Osier is conducting a large-scale study with test-persons in seven African countries. She wants to gain a better understanding of the fundamental mechanisms and to use them for vaccination. Her academic host is Prof. Dr Michael Lanzer of the Centre for Infectious Diseases at the Heidelberg University Hospital.



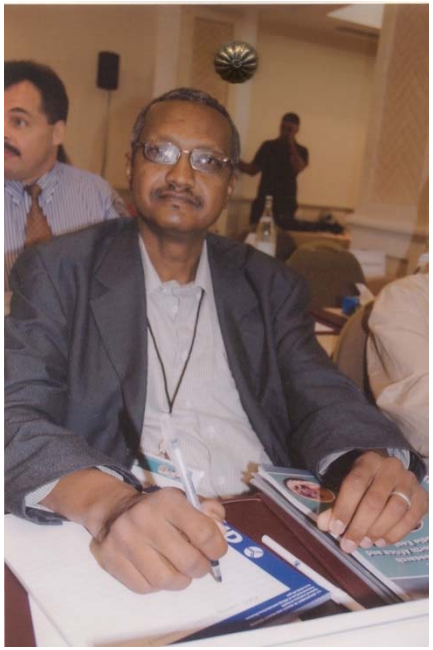
TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Sudan partner:

Professor Maowia Mukhtar

Head,
Institute for Endemic Diseases,

University of Khartoum, Sudan





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Tanzania partner:

Dr Upendo Mwingira

National Institute for Medical Research,

Tanzania





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Botswana partners:

Professor Nthabi Phaladze
WHO Collaborating Centre for Nursing and Midwifery Development,
University of Botswana

Dr Boitumelo Mudabuka
Botswana Institute for Technical Research and Innovation

Dr. Nthabiseng Phaladze of Uni of Botswana discusses establishment of #ethics centre @bermaninstitute @JohnsHopkinsIH





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Rwanda partner:

Dr Nadine Rujeni

Lecturer,
College of Medicine and Health Sciences,

University of Rwanda





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Zimbabwe partners:

Professor Simbarashe Rusakaniko
Chairman, Dept. Community Medicine,
University of Zimbabwe

Dr Paul Ndebele
Director,
Medical Research Council of Zimbabwe

Professor Elopy Sibanda
Head,
Asthma, Allery and Immunology Clinic



Prof. Elopy Sibanda receiving Adjunct Professorship of the Medical University of Vienna award from Rector Müller, 2016



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Uganda partner:

Professor Charles Waiswa

Director,
Coordinating Office for Control of Trypanosomiasis,

Uganda

SOS partners COCTU and COVAB, Makerere given Innovation Award for sleeping sickness control campaign

2013-12-12

The successes achieved by the Stamp Out Sleeping sickness (SOS) campaign in the control of sleeping sickness in Northern Uganda have been recognised by the Ugandan Ministry of Public Service which has awarded COCTU and COVAB, Makerere with the prestigious Collaboration and Networking across Government Award". The Stamp Out Sleeping sickness (SOS) campaign is a public private partnership (PPP) that was launched in Kampala, Uganda in October 2006.



SOS partners COCTU and COVAB,Makerere given innovation award for sleeping sickness control campaign Awarded by Prime minister AMAMA MBABAZI



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

University of Edinburgh partners:

Edinburgh Genomics

Professor Mark Blaxter





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

University of Edinburgh partners:

Edinburgh Infectious Diseases

Professor Ross Fitzgerald





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

University of Edinburgh partners:

Global Health Academy

Dr Liz Grant





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

University of Edinburgh partners:

Innogen Institute

Professor Joyce Tait,
Dr Geoffrey Banda





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

University of Edinburgh partners:

SynthSys

Prof. Susan Rosser
Dr Liz Fletcher





TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Our supporters:

African Academy of Sciences
African Union
New Partnership for Africa's Development (NEPAD)







Industry - Avia-GIS, Immunovaccine, J&J, Kestrel Technology Group, Merck KgA, Omega, PEPperPRINT



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Our activities:

47 research projects

9 Rapid Impact projects @ £100K

5 Making a Difference projects @ £500K

4 Toolkit projects @ £100K

9 NIHR-funded In-Africa PhD studentships
+ 8 PhD studentships [+13 Masters studentships] funded by African partners

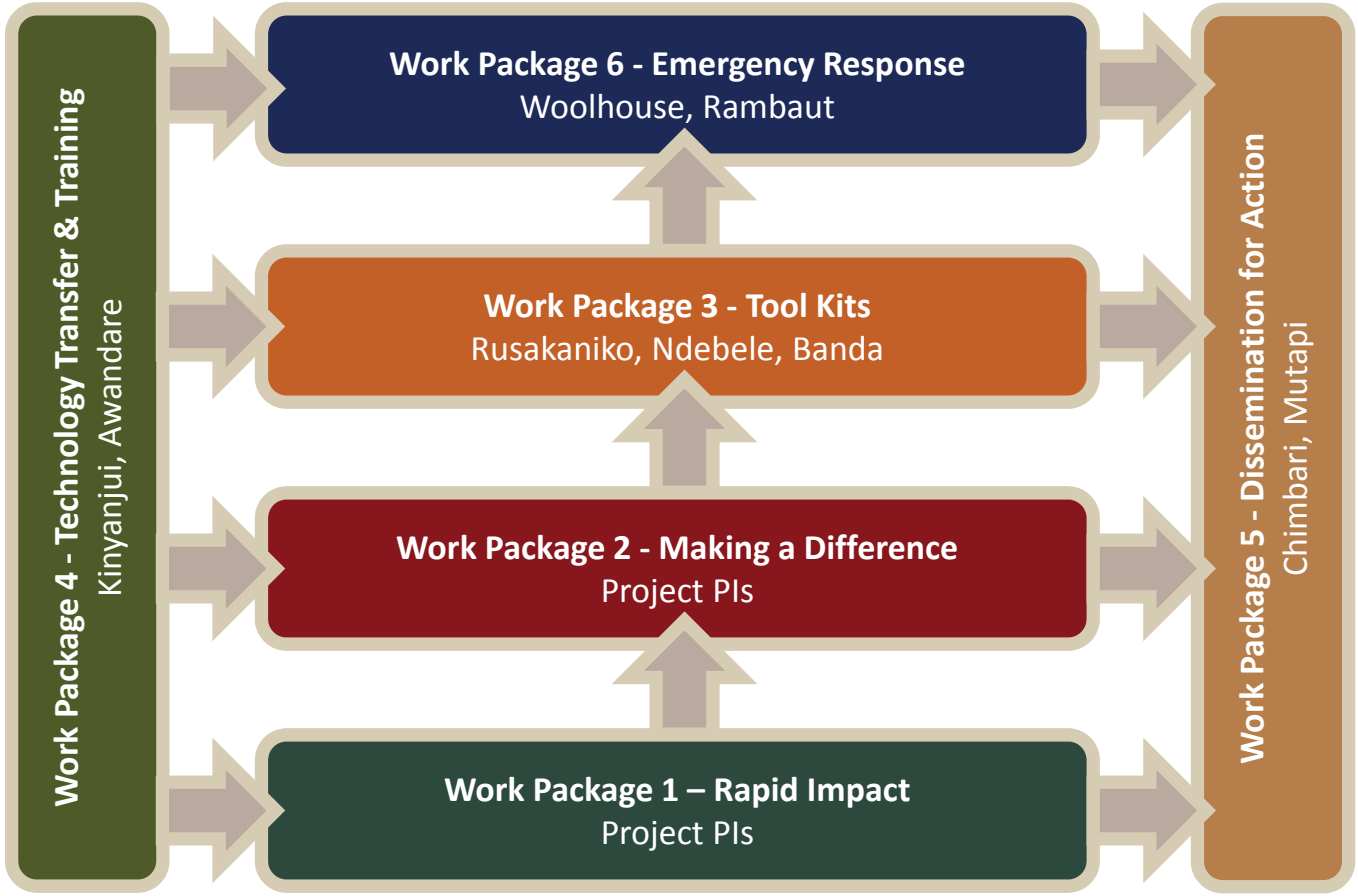
9 NIHR-funded Out-of-Africa one-year Research Fellowships @ UoE
+ 3 In-Africa fellowships funded by African partners

In-Africa training programmes @£125K

Information exchange via web sites and annual meetings



WORK PACKAGES





WP1: RAPID IMPACT PROJECTS

Years 1-2:

Nine Rapid Impact projects (£100K each)

TIBA will support 9 Rapid Impact (RI) projects, one proposed by each African partner. These are designed to capture the diverse challenges of health care systems in Africa and will both inform the development of our Making a Difference projects and provide data for our Toolkit projects. Each RI project will address a current knowledge gap which is resulting in either non-deployment of diagnostics or interventions or a lack of operational knowledge to improve the health of affected populations.



WP2: MAKING A DIFFERENCE PROJECTS

Years 2-3:

Five Making a Difference projects (£500K each)

- Demonstrate relevance to national health needs
- Clear pathway to impact
- Indicators for measuring impact
- Involve 2 or more Africa partner countries
- Fit with TIBA aims and objectives
- Provide opportunities to progress Toolkit projects



WP3: TOOLKIT PROJECTS

Years 3-4:

1) Strengthening health systems

2) Innovation-to-application value chains

3) Information exchange and data sharing

4) Best practice for capacity building and training



WP4: CAPACITY BUILDING

PhD training (In country & UKZN)

MSc and MPH training

Postdoctoral fellowships

In-country training

Technology transfer

Seven Principles for Strengthening Research Capacity in LMICs



WP5: DISSEMINATION FOR ACTION

National Level

Botswana - Ms Shenaaz Al Halabi - Permanent Secretary for Health
Ghana - Dr Gloria Quanash Asare - Deputy Director, General of Health Services
Kenya - Dr. Nicholas Muraguri - Principal Secretary, Ministry of Health
Rwanda - Dr Irenee Umulisa - Director, Neglected Tropical Diseases Unit, Ministry of Health
South Africa - Ms M P Matsoso - Director General, National Department of Health
Sudan - Dr Tarig Abdelrahim - Director, Communicable and Non-Communicable Diseases Control Directorate, Federal Ministry of Health
Tanzania - Dr Neema Rusibamayila – Director, Preventive Services, Ministry of Health, Community Development, Gender, Elderly and Children
Uganda - Dr Diana Atwiine - Permanent Secretary, Ministry of Health
Zimbabwe - Brigadier Dr Gerald Gwinji - Permanent Secretary for Health and Child Care

Continental Level

African Academy of Science (AAS) - Prof. Berhanu Abegaz, Executive Director

African Union (AU) - Dr Amb Olawale L. Maiyegun, Director of Social Affairs

New Partnership for Africa's Development (NEPAD) - Prof Aggrey Ambali, Head, Industrialisation, Science, Technology and Innovation

Southern African Development Community (SADC) - Mr Joseph Mthethwa - Programme Director, Health and Pharmaceuticals

WHO-Afro - Dr Matshidiso Moeti - Regional Director

Africa Centres for Disease Control and Prevention (ACDC) - Dr John Nkengasong - Director

Community Level

Phase 1 - Joint development of an **engagement and dissemination plan** (EDP) by researchers and communities. The EDP will be embedded with a monitoring and evaluation plan to ensure accountability.

Phase 2 - Regular evaluation of the EDP through monitoring and making necessary adjustments. This will involve regular meetings and open forums to allow community inputs into project activities.

Phase 3 - dissemination and final evaluation of the EDP.

Knowledge uptake (KU) will be a continuous process done through knowledge mapping involving:
a) identifying key results that need to be translated;
b) identifying target groups for KU;
c) specifying anticipated outputs of KU;
d) identifying tools appropriate for the various target groups.

Global Level

Bill & Melinda Gates Foundation (BMGF)

UK Dept. for International Development (DfID)

United States Agency for International Development (USAID)

European Commission Directorate-General for International Cooperation and Development (DEVCO)

International Association of National Public Health Institutes (IANPHI)

Wellcome Trust (WT)

World Health Organisation (WHO)

World Bank



WP6: EMERGENCY RESPONSE

Field diagnostics (portable kits, bench top sequencing)

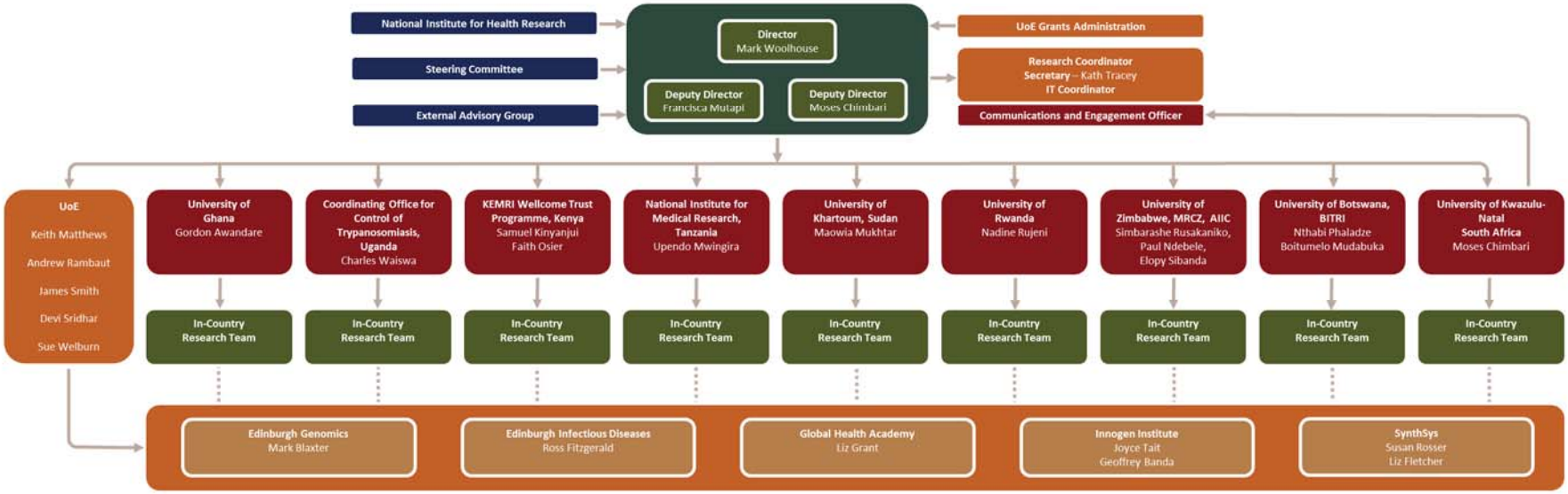
Data sharing

Real-time genomic analysis

+ staff salary recovery, travel and deployment costs



ORGANOGRAM


National Institute for Health Research
Steering Committee
External Advisory Group
Director
Mark Woolhouse
Deputy Director
Francisca Mutapi
Deputy Director
Moses Chimbari
UoE Grants Administration
Research Coordinator
Secretary – Kath Tracey
IT Coordinator
Communications and Engagement Officer
UoE
Keith Matthews
Andrew Rambaut
James Smith
Devi Sridhar
Sue Welburn
University of Ghana
Gordon Awandare
Coordinating Office for Control of Trypanosomiasis, Uganda
Charles Waiswa
KEMRI Wellcome Trust Programme, Kenya
Samuel Kinyanjui
Faith Osier
National Institute for Medical Research, Tanzania
Upendo Mwingira
University of Khartoum, Sudan
Maowia Mukhtar
University of Rwanda
Nadine Rujeni
University of Zimbabwe, MRCZ, AIIC
Simbarashe Rusakaniko,
Paul Ndebele,
Elopy Sibanda
University of Botswana, BITRI
Nthabi Phaladze
Boitumelo Mudabuka
University of Kwazulu-Natal South Africa
Moses Chimbari
In-Country Research Team
Edinburgh Genomics
Mark Blaxter
Edinburgh Infectious Diseases
Ross Fitzgerald
Global Health Academy
Liz Grant
Innogen Institute
Joyce Tait
Geoffrey Banda
SynthSys
Susan Rosser
Liz Fletcher


Sudan
Ghana
Kenya
Uganda
Tanzania
Rwanda
Zimbabwe
Botswana
South Africa

TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Our management:

Directorate

Mark Woolhouse (Director)

Deputy Directors: Francisca Mutapi, Moses Chimbari

Steering Committee

Directorate + Gordon Awandare, Samson Kinyanjui, Keith Matthews, Paul Ndebele, James Smith, Sue Welburn

Governance

External Advisory Group

Local EAGs in each partner country

Internal M&E for individual projects

External M&E for overall project by LTS International



TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Our staff:

Research Coordinator (UoE)
Project Manager (UoE)
Communications & Engagement Officer (UKZN)
ICT support officer (UoE)
Admin support (UoE)

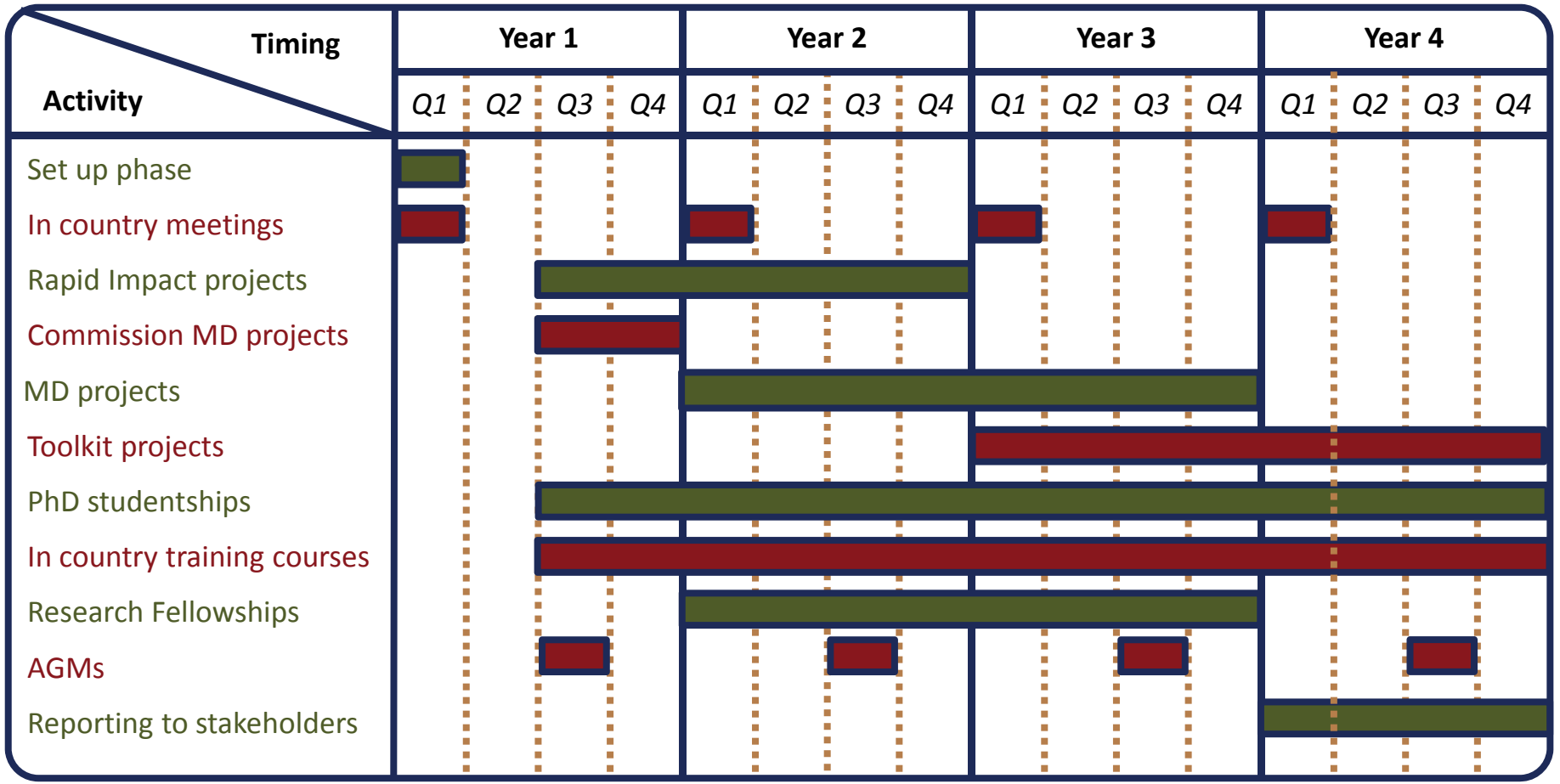
12 Research Fellows
30 postgraduate students

Infectious diseases and global health communities at UoE

Research staff at institutes in 9 Africa partner countries



GANNT CHART


Timing
Activity
Year 1
Year 2
Year 3
Year 4
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
Set up phase
In country meetings
Rapid Impact projects
Commission MD projects
MD projects
Toolkit projects
PhD studentships
In country training courses
Research Fellowships
AGMs
Reporting to stakeholders


Sudan
Ghana
Kenya
Uganda
Tanzania
Rwanda
Zimbabwe
Botswana
South Africa

TACKLING INFECTIONS TO BENEFIT AFRICA (TIBA)

Next steps:

1) Contract awarded (June 1st 2017)

2) Recruit key support staff (ongoing)

3) Finalise Rapid Impact project selection (ongoing)

4) Subcontracts with individual partner countries (by December 1st 2017)

5) Recruit external advisory group (ongoing)

6) Appoint M&E specialists (ongoing)

7) Submit interim progress report to funders (December 1st 2017)

8) Roll out TIBA in partner countries (December 2017)

9) First full project meeting (Harare, early 2018)



TIBA CONTACTS

Web site: http://tiba-partnership.org

E-mail: info@tiba-partnership.org

Skype: Tiba Partnership

Twitter: @TibaPartnership

Secretariat: Kath Tracey, Edinburgh



tiba

NHS National Institute for Health Research

THE UNIVERSITY OF EDINBURGH

UNIVERSITY OF BOTSWANA

COCTU UTCC

UNIVERSITY OF GHANA

KEMRI Wellcome Trust

UNIVERSITY OF KWAZULU-NATAL

