



Working Towards One Health, One Africa

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What is SACIDS

SACIDS is a **ONE HEALTH Virtual Centre** that links academic and research institutions in Southern Africa, which deal with infectious diseases of humans and animals, in an innovative partnership with world-renowned centres of research in high income countries, for instance, the University of London Colleges that constitute the London International Development Centre (LIDC) including the Royal Veterinary College - RVC - and the London School of Hygiene and Tropical Medicine -LSHTM. Other partnerships include collaboration with the International Livestock Research Institute (ILRI), other institutions in the USA, UK and Asia.

Our Core Values

One Health approach to infectious diseases of humans, animals and ecosystems, linking research across sectors and Ministries.

Equity between Public Health and Animal Health research and training which is based on mutual trust and is embedded in structures and practices

Virtual Centre concept operating at regional and national levels

Building African research excellence across universities and national research institutions

Smart partnership with Centres of Science excellence in industrialised and other countries in a model of South-South-North collaboration.

A Community of Practice approach, linking research on particular problems across sectors, institutions and countries

Proactive stakeholder and public/community/industry engagement



Championing Disease Surveillance Research in Africa

Vision

A Sub-Saharan African society protected from devastating infectious diseases affecting the health of humans, animals, i.e. both terrestrial and aquatic, and ecosystems, thereby promoting livelihoods, socio-economic development including market access and the environment



Mission

Harnessing innovation in science and technology in order to improve sub-Saharan Africa's capacity to detect, identify and monitor infectious diseases of humans, animals and their interactions in order to better manage the risk posed by them



One Health Focus

The SACIDS One Health focus is to address infectious diseases in the endemic settings of Sub-Saharan Africa, with a particular attention to southern, central and East Africa through a collaborative effort between natural and social sciences to advance the understanding of interactions between humans, animals and the environment to improve public and animal health.

Strategic Objectives

1. Regional One Health Forum
2. One Health driven Training
3. Pathogen and Disease Dynamics Research
4. Syndromic Disease Surveillance Systems Research
5. Societal and Ecosystems Impact Research
6. Wildlife and Ecosystems Health Research and Training



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Foresight

Founding Members

Democratic Republic of Congo

The Institute of Public Health of the Faculty of Medicine of the University of Kinshasa.

The Faculty of Veterinary Medicine of the University of Lubumbashi

National Institute for Biomedical Research

The Central Veterinary Laboratory in Kinshasa

National Institute for Nature Conservation

Mozambique

Faculty of Medicine: Eduardo Mondlane University

Faculty of Veterinary Medicine: Eduardo Mondlane University

Directorate of Animal Sciences: Institute of Agricultural Research of Mozambique - Ministry of Agriculture

National Health Institute: Ministry of Health

National Institute for Fisheries Inspection

Smart Partners

Royal veterinary college, London University

London School of Hygiene & Tropical Medicine

London Centre for International Development

South Africa

National Institute for Communicable Diseases of the National Health Laboratory Service

Onderstepoort Veterinary Institute of the Agricultural Research Council, Pretoria

Faculty of Veterinary Science University of Pretoria, at Onderstepoort

Stellenbosch University, Medical School, Cape Town

Tanzania

The National Institute for Medical Research

Ifakara Health Research & Development Centre

The Muhimbili University of Health and Allied Sciences

The Faculty of Veterinary Medicine, Sokoine University of Agriculture

The Central Veterinary Laboratory

The Tanzania Wildlife Research Institute

Tanzania National Parks Authority

Zambia

School of Veterinary Medicine, University of Zambia

School of Medicine - University of Zambia

Central Veterinary Research Institute

Tropical Diseases Research Institute



Prof Mark Rweyemamu
Executive Director of
SACIDS



**Sokoine University of
Agriculture**
Host Institution

International Livestock Institute (ILRI)

Center for Infectious Diseases, Edinburg University

Global Health and Security Initiative

Global Health Corps

Google.Org

SACIDS Activities

Community of Practice: Fostering Collaborative Research with others

Collaborating Research partners

North Partners

RVC-UK, LSHTM-UK

South Partners

NICD-RSA, OVI-RSA

ILRI-Kenya

SACIDS Collaborating Universities, Government Institutes

Other Partners

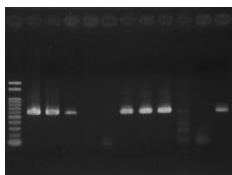
SADC-TADS, GALVmed



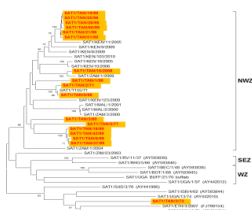
Preparations to tackle rare bacteria diseases



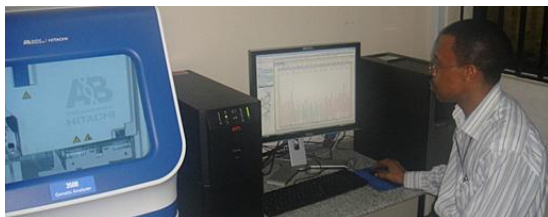
Analysis of samples at UNZA



Diagnosis, control and molecular characterization



Phylogenetic analysis of FMD serotype SAT1 strains



Mainstreaming DNA sequencing in African universities

Foundation laid since 2008

One Health driven MSc courses targeting identified competence gaps in region (Molecular Biology & Analytical Epidemiology)

2-Year MPhil / MRes / Research MSc

4-Year PhD awards with possibility of 1 year Transitional Postdoc award.

5-Year Research Career Development Postdoc (into university regulations)

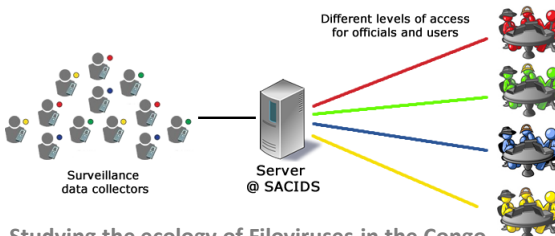
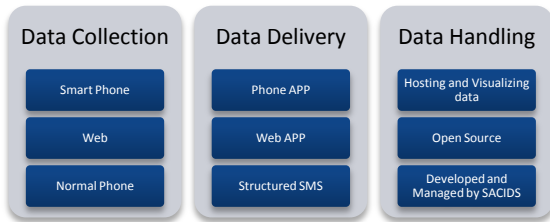
Inter-sectoral and inter-institutional theme based, regional, one health research

Loosening silos and encouraging collaborative research with others

Founding member of **CORDS: Connecting Organizations for Regional Disease Surveillance**
www.cordsnetwork.org

SACIDS Activities

Mobile Technologies for One Health Disease Surveillance in People and Animals



Studying the ecology of Filoviruses in the Congo Basin - led by Prof Paweska, NICD & Deputy Director of SACIDS



Collecting samples from bats at Luebo DRC



Sample preparation in a field laboratory in Luebo



Sample analysis in BSL-4, NICD Johannesburg

What we may offer

Disease Surveillance Systems

Programming of mobile phones, data storage

Expert response in disease outbreaks

Specialized Diagnosis

Molecular Epidemiological Analysis

DNA Sequencing

One Health training courses at post graduate level and CPD's

Specialized One Health MSc courses

Collaborative research platform

Linkage to public and animal health sectors as well as two communities at human-animal interface eco-systems in Africa