

## The Climate Change & Health studies will involve cohorts from East and West Africa.



Our research projects launch in 2020 and last through 2022.



Our team from Burkina Faso, Germany, Kenya, and Switzerland.

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## Kenya Medical Research Institute (KEMRI)

### Climate Change & Health in Sub-Saharan Africa

### Developing Healthy and Sustainable Solutions for a Changing World

**In August 2019, KEMRI co-founded the Research Unit “Climate Change and Health in Sub-Saharan Africa” funded by the German Research Foundation (DFG)**

Within the Research Unit, our group collaborates with colleagues from the Heidelberg Institute of Global Health (HIGH), the Centre de Recherche en Santé de Nouna (CRSN), the Potsdam Institute for Climate Impact Research (PIK), the Karlsruhe Institute for Technology (KIT), the Charité-Universitätsmedizin Berlin, the Humboldt University Berlin, and the Swiss Tropical and Public Health Institute (SwissTPH).

Rising atmospheric CO<sub>2</sub> levels, heat extremes, changes in rainfall patterns, droughts, and agricultural losses confer severe direct and indirect impacts on human health.

This project aims to establish these impacts by focusing on four areas – Undernutrition, Heat Stress, Malaria, and Policy – through the lens of impact, adaptation, and projection/scalability.



**🔗 IMPACT**

How does climate change impact human health, and how much?

**⚙️ ADAPTATION**

In a changing climate, how effective are local adaptation interventions to protect population health?

**📈 PROJECTION**

How will health impact projections unfold under different climate and adaptation scenarios?



**Our Research Unit will address these three health concerns...**

**Undernutrition**

Through our study interventions, we will explore how agricultural losses due to extreme weather relates to food insecurity and poverty. We promote biodiversity and sustainable, culturally appropriate diets.

**Heat Stress**

Project variables include: cardiovascular heat stress, climate-related injuries, and the exacerbation of chronic diseases due to rising temperatures. We will also assess cool roofs as a sustainable solution.

**Malaria**

As the climate changes, so does a population's exposure to vector-borne infectious diseases.

**...and assess Policy issues at the intersection of climate change and health.**

This study promotes equal opportunities for men and women and will investigate the economic implications of climate-related health concerns.