



Call for Fellowships Afrique One-ASPIRE

TTP4: Foodborne Diseases and Nutritional Illnesses

TTP4 aims to address the nutritional patterns in transitional landscapes and their impact on food-related diseases by studying the epidemiological links between infectious diseases and selected/related non-communicable diseases of livestock dependent populations. It covers the following aspects:

- Animal-source food value chains – livelihood of livestock dependent populations
- Consumption patterns – true foodborne disease (FBD) burden and risk of infection – non-communicable disease (NCD) analysis and opportunities
- Socioeconomic cost-effective design of interventions

Ref: [TTP4-Food-PhD1](#)

Project Title: Development of an innovative surveillance tool for predicting and evaluating the risks of FBDs and NCDs

Enrolment: The PhD will be enrolled primarily in NM-AIST, Tanzania or UFHB, Côte d'Ivoire or any other member university of Afrique One-ASPIRE.

Project Description: This project will address how FBDs can be effectively quantified, monitored, surveyed, controlled and prevented. We face complexity in estimating or forecasting the emergence of FBD outbreaks. There is a need for evidence-based data from households, communities and health centres. By using a participatory approach combined with conventional molecular biology tools across the value chain (i.e. farms, markets, households, hospitals), the project will develop a tool for assessing the true burden of FBDs. Households and clinical cases will, therefore, be compared. Bayesian inference will be implemented to estimate the true disease burden using populations at risk and active cases. The project will contribute to the national Food Safety Agencies programme. The fellow may use the potential and opportunities offered by the HDSS in the country where he/she will conduct the study.

Mentorship Team: Julius Dotto Keyyu (TAWIRI); Esther Schelling, Jürg Utzinger, Jakob Zinsstag, Marcel Tanner and Fabrizio Tediosi (Swiss TPH); Bassirou Bonfoh (CSRS); Joram Buza (NM-AIST); Sayoki Godfrey Mfinanga (NIMR); Delia Grace (ILRI/CGIAR); Reginald Kavishe (KCRI/KCMC)

Qualifications: The candidate must be a citizen of an African country. Candidates with any discipline contributing to One Health (e.g. public health, veterinary and animal sciences, social sciences, geography, epidemiology and health economics) will be considered.

Duration and Training: This PhD fellowship is funded for a maximum of 4 years. Training will be provided primarily in Tanzania or Côte d'Ivoire, with further opportunities within the Afrique One-ASPIRE consortium and with supervisory partners in the UK, Switzerland and Zimbabwe, depending on need and internal budget considerations.

For more information, contact the co-leads:

Bassirou Bonfoh, CSRS, Côte d'Ivoire, bassirou.bonfoh@csrs.ci

Sayoki Mfinanga, NIMR, Tanzania, gsmfinanga@yahoo.com