



## Call for Fellowships Afrique One-ASPIRE

### TTP5: Human and Animal Disease Surveillance-Response Systems

TTP5 aims to address the need to increase the reporting of zoonotic diseases through integration of human and animal surveillance systems, the use of innovative surveillance tools and involvement of communities in disease reporting. This TTP will focus on three themes:

- Surveillance tools and community involvement
- Surveillance-response systems
- Cost–benefit analysis of integrated human–animal disease surveillance systems

### Theme 1: Surveillance tools and community involvement

[Ref: TTP5-Surveillance-Response-Msc1](#)

**Project Title:** Human–animal tuberculosis control in nomadic pastoralists: the role of communities and new technologies in the detection of new cases

**Enrolment:** The candidate will be enrolled at NM-AIST, Tanzania.

**Project Description:** Tuberculosis (TB) is prevalent worldwide, infecting human populations, livestock and wildlife and is transmitted within this group of hosts. TB control in Africa is effective at the public health level with little knowledge on its impact in 'hard to reach'-populations such as those with nomadic lifestyle. However, TB control in African livestock herds does not exist, as highlighted by several studies, hence nomadic people who are in permanent and close contact with the herd animals are continuously exposed to TB and other zoonotic diseases. This project will focus on detecting diseased animals and infected nomadic people using an integrated approach. The use of technologies that are new to the populations assessed, such as

mobile phone and the implication of communities in the disease management will be encouraged in order to build a suitable intervention system that can be maintained in the long-term. The impact of informal transportation systems such as motorcycle taxis in the care of patients will be assessed in addition. In the animal health setting, detection of diseased animals using a SICCT cut off will be used.

**Mentorship Team:** Rudowick Kazwala (SUA); Kennedy Kwasi Addo (NMIMR); Sayoki Mfinanga (NIMR); Richard Ngandolo Bongo (IREC); Joram Buza and Emmanuel Mpolya (NM-AIST); Julius Keyyu (TAWIRI); Esther Schelling, Jürg Utzinger and Jakob Zinsstag (Swiss TPH); Daniel Haydon and Sarah Cleaveland (UoG); Phare G. Mujinja (MUHAS); Enock Matovu and Vincent P. Alibu (Makerere)

**Qualifications:** The candidate must be a citizen of an African country and have a BSc in health or allied health sciences with experience in research.

**For more information, contact the Co-leads:**

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