

# Eco-epidemiology of vector and vector-borne diseases in the Horn of Africa: Its implication for vector borne disease control

Sandpit Fellows: Samson Leta, Sintayehu Dejene

Mentors: Lisa Cavalerie, Matthew Baylis, Andy Morse, Siobhan Mor

Objectives:

1. To assess the species, abundance and environmental preference of disease vectors of veterinary and public health importance
2. To develop species distribution models for major disease vectors of veterinary and public health importance and risk maps for RVF and WNV
3. To identify biotic and abiotic factors associated with vector and vector-borne diseases occurrence and how these factors may influence host–pathogen interactions
4. Identification and molecular characterization of RVF virus, WN virus and wolbachia from vectors

