

JIMMA UNIVERSITY (JU): THE PROPOSED COLLABORATION

**Infectious diseases epidemiology: dynamics, modeling, prevention and control around  
Gilgel Gibe hydroelectric dam**

EPIDEMIOLOGY AND MODELING PROJECT TEAM

***Fact sheet***

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<b>Project leader:</b>	Fasil Tessema (BSc. Statistics, MSc. Community Health), Associate Professor, Head Department of Epidemiology and Biostatistics (Public Health Faculty).
<b>Faculties involved:</b>	Faculty of Public Health, Faculty of Medical Sciences, Faculty of Natural and Information Science and Faculty of Education.
<b>Project capacity:</b>	A multidisciplinary team composed of 17 professionals with varying levels of experience and expertise consisting of 2 associate and 3 assistant professors, with others team members involved in different research projects.
<b>Core needs/problems:</b>	Lack of basic research in epidemiological methodology due to the lack of trained manpower at PhD level. Scarce information on prevalence of important infectious diseases and the effect of possible interventions due to the lack of financial means to run large longitudinal studies.

***Specific objectives of the project***

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1. Determine the prevalence and determinants of malaria and malaria vector dynamics
  2. Compare effectiveness of intervention measures (including traditional methods) for malaria control
  3. Conduct community based surveys on prevalence, treatment seeking behavior and delays as related to HIV, tuberculosis, diarrheal and intestinal diseases and other infectious diseases.
  4. Develop and test feasible, relevant and cost effective intervention strategies for infectious diseases of public health importance – including HIV-Aids, diarrheal diseases and intestinal parasitosis
  5. Develop appropriate mathematical and statistical models related to important infectious diseases
  6. Determine the different infectious diseases burdens for local, national and international consumption and comparison to assist policy makers to make informed decision
  7. Develop databanks for infectious diseases for future use

***An opportunity to collaborate***

***General notions:***

This project offers the interested Flemish academics collaboration in an exciting and internationally relevant project with an important research component which is also open to their doctoral students. In addition, Flemish partners may have opportunities to participate in other infectious diseases consulting and research projects.

***Expertise required:***

<b>Specialisation:</b>	Biostatistician, epidemiologist, medical entomologist, database specialist.
<b>Critical capacities:</b>	Longitudinal study project management, laboratory equipment, resource generation and inter-disciplinary requirements.
<b>Nature of collaboration:</b>	Remote support with occasional visits to the project site and meetings with project team members, data analysis and report writing and advisorship for PhD and MSc fellows.