COLLEGE OF VETERINARY MEDICINE

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Associate Professor

EDUCATION/TRAINING

Institution and Location	Degree	Graduation Year	Major
Addis Ababa University, Debre Zeit, Ethiopia	DVM	1985	Veterinary Medicine
Justus-Liebig University, Giessen, Germany	PhD	1995	Microbiology & Molecular Biology
University of Manitoba, Winnipeg, MB, Canada	Postdoc Fellow	1999	Molecular Biology & Cell Biology
Yale University, School of Medicine, New Heaven, CT, USA	Postdoc Associate	2003	Molecular Biology & Cell Biology

TEACHING

- Veterinary Microbiology, Introduction to Molecular Biology and Bioethics
- Clinical Rotation, Epidemiology of Infectious Diseases and Nursing Microbiology

RESEARCH INTERESTS

General focus is on Food safety and Antibiotic resistance. Specific direction of the research emphasis:
i) Development of robust and rapid molecular-based detection technique with major emphasis to foodborne pathogens and biothreat agents; ii) Modification of PCR sample preparation to delineate dead and viable bacteria; iii) Identification of the role and risk of injured foodborne pathogens after thermal and pH challenge and iv) Exploration of the impact of plant extracts as pretreatment/treatment on bacterial growth and modulator of antibiotic resistance.

RECENT PUBLICATIONS

Mack J.D., Park M.K., Tameru B., Samuel T., Chin B.A & **T. Yehualaeshet** (2016). Phage-Based Biosensor and Optimization of Blocking Agents to detect Salmonella Typhimurium on Romaine Lettuce. Journal of Food Safety. 30 JUN 2016, DOI: 10.1111/jfs.12299.

Fadlalla K., Elgendy R., Gilbreath E., Pondugula SR, **Yehualaeshet T.**, Mansour M, Serbessa T., Manne U, Samuel T.(2015). 3-(2-Bromoethyl)-indole inhibits the growth of cancer cells and NF-κB activation. Oncol Rep. 2015 Jul;34(1):495-503. PMID: 26063116.

Delesa EK, Yohannes A, Alemayehu M, Samuel T. and **Yehualaeshet T.** 2014. Calves' sex ratio in naturally and artificially bred cattle in central Ethiopia. Theriogenology. Aug;82 (3):433-9. PMID: 24908336

Yehualaeshet T, Graham M., Montgomery M., Habtemariam T., Samuel T., and W. Abdela. 2013. Effects of temperature on the viability, growth and gene profile of *Yersinia pseudotuberculosis* and *Yersinia enterocolitica* inoculated in milk. Food Control 34, 589-595. doi:10.1016/j.foodcont.2013.05.025

APPROVED PATENTS:

1. (PI), Modification of Sample Preparation to Differentiate Viable and Dead Bacteria. Patent Number: 9434976
2. (Co-PI), Detection of food threat agents and foodborne pathogens Patent number: 8883488

SERVICE ACTIVITIES

- Tuskegee University Intellectual Patent Committee, Chairperson
- Phi Zeta Veterinary Chapter, Tuskegee University, 2015/16Chairperson