

Dr. Woubit Abdela

Selected peer-reviewed publications:

- 1) Giang Nguyen, Magda Ismail Abo-Samaha, Gopal Reddy, Mohammed Abdulrahman, Temesgen Samuel, Abiodun Adesiyun and **Woubit Abdela**. Improved Detection of *Campylobacter jejuni*, *Listeria monocytogenes* and *Salmonella* Typhimurium from Raw Meat Products Using Conventional and Newly Developed TaqMan Assays. 2015, *in press, Int. J. Poult. Sci.*
- 2) Hazem Ramadan, Byungjin Min, Amit K. Tiwari, Gopal Reddy, Abiodun Adesiyun, Arthur Hinton Jr. and **Woubit Abdela**. Antibacterial Activity of Pomegranate, Orange and Lemon Peel Extracts Against Food-Borne Pathogens and Spoilage Bacteria In vitro and on Poultry Skin, *Int. J. Poult. Sci.*, **14 (4): 229-239, 2015**
- 3) Jeho Parka, Hoang Hiep Nguyena, **Abdela Woubit**, and Moonil Kim. Applications of Field-Effect Transistor (FET)-Type Biosensors, *Review Paper Applied Science and Convergence Technology* Vol.23 No.2, **March 2014**, pp.61~71
- 4) **Abdela Woubit**, Teshome Yehualaeshet, Sherrelle Roberts, Martha Graham, Moonil Kim, and Temesgen Samuel. Customizable PCR-microplate array for differential identification of multiple pathogens. *Journal of Food Protection* **2013, 76:11 1948-1957**
- 5) Abdelrahman Mohamed, Gopal P. Reddy, Temesgen Samuel; Mahmoud Mansour, **Abdela S. Woubit**. *Clostridium difficile* in companion animals, prevalence, ribotyping and toxin characterization. *Submitted Journal of Diagnostic Microbiology and Infectious Disease* (2013)
- 6) Yehualaeshet T., Graham M., Montgomery M., Habtemariam T., Temesgen Samuel T and **Woubit Abdela**. Effects of temperature on the viability, growth and gene profile of *Yersinia pseudotuberculosis* and *Yersinia enterocolitica* inoculated in Milk. *Food Control* **34(2013) 589-595.**
- 7) **Abdela Woubit**, Yehualaeshet Teshome, Habtemariam Tsegaye, and Samuel Temesgen (2012). Novel Genomic Tools for Specific and Real-Time Detection of Biothreat and Frequently Encountered Foodborne Pathogens *Journal of Food Protection*, **2012, 75:4**
- 8) **Abdela Woubit**, Martha Graham, Habtemariam Tsegaye, Samuel Temesgen, and Teshome Yehualaeshet. Effects of orange juice pH on the survival, urease activity and DNA profiles of *Yersinia enterocolitica* and *Yersinia pseudotuberculosis* stored at 4 degree C. *Journal of Food Safety*, **2011, 31:4**

- 9) Francois Thiaucourt, Lucia Manso-Silvan, **Woubit Salah**, Valérie Barbe², Daniel Jacob, Marc Breton, Virginie Dupuy, Anne Marie Lomenech, Pascal Sirand- Pignet. *Mycoplasma mycoides*: from Large Colony to Small Colony. How close is close? A micro-evolutionary perspective. **BMC Genomics 2011, 12:114**.
Kyoungsook Park, Jeong Min Lee, **Abdela Woubit Salah**, Cesar D. Fermin, and Moonil Kim. Combination of cysteine- and oligomerization domain-mediated protein immobilization on a surface plasmon resonance (SPR) gold chip surface. **Analyst, 2011**.
- 10) Kyoungsook Park, **Abdela Woubit Salah**, Cesar D. Fermin, Dai-Wu Seol, and Moonil Kim. Inhibitory effect of hypoxia on camptothecin-induced apoptosis by Bax down-regulation. **Biologia, (2012) 67, 1-7**.
- 11) **Woubit S. Abdela**, Manso-Silvan L, Lorenzon S, Gaurivaud P, Poumarat F, Pellet MP, Singh VP, Thiaucourt F, A PCR for the detection of mycoplasmas belonging to the *Mycoplasma mycoides* cluster; Application to the diagnosis of contagious agalactia. **Mol Cell Probes 2007; 21: 391-399**.

Presentations:

- 1) Kamel F. Khazal, Mohamed Abdurahman, Amin Eljack, and **Woubit Abdela**. CRISPR is lacking in multidrug resistance Enterococcus faecalis isolated from clinically ill dogs presented to the Teaching Hospital of the School of Veterinary Medicine, Tuskegee University; Biomedical Symposium, Tuskegee University, Tuskegee University, AL
- 2) **W.S. Abdela**, G. Nguyen, M. Abo Samaha, M. Abdulrahman, G. Reddy. Multiplex TaqMan assay for the prevalence of *C. jejuni*, *L. monocytogenes* and *S. Typhimurium* in local retail meat samples. 94th Annual Meeting of the Conference of Research Workers in Animal Diseases (CRWAD), December 8, 2013, Chicago, IL
- 3) **W.S. Abdela**, T. Yehualaeshet, S. Roberts, T. Samuel. Customizable PCR-microplate array for differential identification of multiple pathogens 94th Annual Meeting of the Conference of Research Workers in Animal Diseases (CRWAD), December 9, 2013, Chicago, IL
- 4) Mohamed, **Woubit A**, T. Samuel, G. Reddy. Clostridium difficile in companion animals, Prevalence, Ribotyping and Toxin characterization. American Society for Microbiology, May 18-2, 2013 Denver, Colorado
- 5) Giang Nguyen, Gopal Reddy, Mohamed Abdulrahman, **Woubit Abdela**. Quantitative Multiplex Real-Time PCR identification of *S. Typhimurium*, *C. jejuni* and *L.*

monocytogenes in meat samples from retail markets, USDA, Washington DC, November 27-29, 2012

- 6) Naree McCoy, Temesgen Samuel, **Abdela Woubit**. Modified DNA Extraction for minimum identification of *S. Typhimurium* & *E. coli* O157:H7 from Food Matrices. ABRCMS, Annual Biomedical Research Conference for Minority Students. San Jose, CA, November 7-10-2012
- 7) Bolden C., **Abdela W.**, Samuel T., Simon L., and Wirtu G. Expression of Acetyl Coenzyme A Carboxylase α (ACC α) In Feline, Canine and Porcine Oocytes. Reproduction, fertility and Development, Abstract Number 48581 for 2012 IETS Annual Conference
- 8) Roberts S., Yehualaeshet T., Samuel T. and **Woubit A.** Limits of detection for *Salmonella* Typhimurium and *Salmonella* Saintpaul from three different food matrixes using two DNA extraction methods and specific Real Time PCR. (The 12th Annual Biomedical Symposium, Tuskegee University, September 23 - 24, 2011
- 9) **Woubit S. Abdela**, Yehualaeshet Teshome, Martha Graham, Temesgen Samuel. Molecular detection of food-threat and frequently encountered food-borne pathogens (Workshop on Novel Sampling and Sensing for Improving Food Safety. Georgia institute of technology, Atlanta, Georgia, June 16 - 17, 2011
- 10) Infante K.D., Maddox J., Samuel T., **Abdela W.**, Graham M. and T Yehualaeshet. Antimicrobial Resistance Spectrum Among *Staphylococcus* and *Streptococcus* Isolates. 46th Veterinary Medical Symposium. Tuskegee, AL. March 24-28, 2011
- 11) Yehualaeshet T., M. Graham, T. Samuel, T. Habtemariam, **W. Abdela**. Temperature Tolerance of *Yersinia* Inoculated in Milk: Viability, Gene Expression and Genomic Rearrangements. 111th General Meeting, American Society for Microbiology (ASM). New Orleans, Louisiana, May 21-24, 2011
- 12) Moonil Kim, **Woubit S. Abdela**, and P. Gopal Reddy. Detection of mutant p53 using field-effect transistor biosensor. Workshop on Novel Sampling and Sensing for Improving Food Safety, June 16-17, 2011 (Atlanta, GA)
- 13) Moonil Kim, **Abdela Salah Woubit**, and P. Gopal Reddy. Inhibitory effect of hypoxia on camptothecin-induced apoptosis by Bax down-regulation. 12th Annual Biomedical Research Symposium, September 22-23, 2011 (Tuskegee, AL)
- 14) Moonil Kim, **Abdela Salah Woubit**, K. Srivastava, and P. Gopal Reddy. Detection of *Salmonella* Typhimurium using DNA barcode amplification assay. 92nd Annual Meeting of the Conference of Research Workers in Animal Diseases (CRWAD), December 4-6, 2011 (Chicago, IL)
- 15) Jordan Pollard, Teshome Yehualaeshet, Martha Graham, Temesgen Samuel, Berhanu Tameru[†] and **Woubit S. Abdela**. Phylogenetic position of *F. tularensis*

subsp. *mediasiatica* within the *F. tularensis* subsp. *tularensis* clade based on the analysis of nine concatenated housekeeping genes. Poster presented to the 11th Annual Biomedical Research Symposium, September 2010

- 16) Gervais Edmond, Mohamed Abdulrahman, Temesgen Samuel, Martha Graham, Noriko Aoi, **Woubit Abdela**, Teshome Yehualaeshet. Investigation of *Staphylococcus aureus* in canine: identification and prevalence of methicillin resistance *Staphylococcus aureus* (MRSA) 2010. Poster presented to the 45th Annual Veterinary Medical Symposium, Tuskegee University
- 17) Jordan Pollard, Teshome Yehualaeshet, Martha Graham, Temesgen Samuel, **Woubit Abdela**. Multilocus sequence alignment in the transcriptional analysis of potentially pathogenic genes of *Yersinia* ensuing pH treatment 2009. Poster presented to the 10th Annual Research Biomedical Symposium. Tuskegee University
- 18) Sircy Moore, Martha Graham, Temesgen Samuel, Marvin Edmond, **Woubit S. Abdela**, Teshome Yeualaeshet. Antimicrobial potential of Vegetable Homogenate to inhibit the growth of *Yersinia* species 2010. Poster presented to the 45th Annual Veterinary Medical Symposium, Tuskegee University
- 19) **Woubit Salah**, Teshome Yehualaeshet and Temesgen Samuel. Simultaneous detection of multiple food safety threat agents using multiplex PCR and PCR based microarray approaches. Agents theme Fall 2009 meeting. National center for Food Protection and Defense, A Homeland Security Center of Excellence. University of Minnesota
- 20) **Woubit Salah**, Habtemariam Tsegaye, Moore Sircy, and Y. Teshome. Survival of *Yersinia enterocolitica* and *Yersinia pseudotuberculosis* in Orange Juice under different pH conditions Poster presented for the National center for food Protection and Defense, a Homeland security center of excellence 2008 Annual meeting. University of Minnesota, USA
- 21) Y. Teshome, Habtemariam Tsegaye, Nande Renu, **Woubit Salah**. Effect of temperature on the Survival and Growth of *Yersinia* species and associated genome profile. Poster presented for the National center for food Protection and Defense, a Homeland security center of excellence 2008 Annual meeting. University of Minnesota, USA