

WONDWOSSEN ABEBE GEBREYES
DVM, PhD, Diplomate ACVPM

The Ohio State University
College of Veterinary Medicine and
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CURRENT POSITIONS

Professor, Infectious Diseases Molecular Epidemiology Laboratory (IDMEL)
Director, Global Health Programs, College of Veterinary Medicine
Professor (courtesy), Department of Epidemiology, College of Public Health
Chair, Ohio State University Global One Health Initiative
<http://vet.osu.edu/global> <http://u.osu.edu/onehealth> <http://icophai.org>

EDUCATION

- 2002 Diplomate, American College of Veterinary Preventive Medicine (ACVPM).
2001 Doctor of Philosophy (PhD) Comparative Biomedical Sciences , Population Medicine Program. Department of Population Health and Pathobiology, College of Veterinary Medicine, North Carolina State University, Raleigh, NC.
1990 Doctor of Veterinary Medicine (DVM), Faculty of Veterinary Medicine, Addis Ababa University, Debrezeit, Ethiopia

EMPLOYMENT HISTORY and EXPERIENCE

- 2012-Present Chair, Global One Health Initiative, The Ohio State University
2011- Present Professor of Molecular Epidemiology, Department of Veterinary Preventive Medicine, College of Veterinary Medicine, The Ohio State University
2010- Present Director, Global Health Programs, College of Veterinary Medicine, The Ohio State University
2015- Present Adjunct Professor, Autonomous University of Mexico (UNAM), Mexico city
2011- Present Affiliate Scientist, Biosciences east and central Africa (Beca), Nairobi, Kenya
2006-2011 Associate Professor, Department of Veterinary Preventive Medicine, College of Veterinary Medicine, The Ohio State University
2008- Present Associate and Full Professor (Courtesy), Dept. of Epidemiology, College of Public Health, The Ohio State University
2006- Present Adjunct Associate and Full Professor, Department of Population Health and Pathobiology, North Carolina State University.

- 2001- 2006 Assistant Professor of Epidemiology, Department of Population Health and Pathobiology, North Carolina State University.
- 2001- 2001 Clinical Instructor. Department of Farm Animal Health and Resources Management, North Carolina State University.
- 1998-2001 Graduate Research Assistant, College of Veterinary Medicine, Department of Farm Animal Health and Resources Management and Department of Microbiology, Pathology and Parasitology, College of Veterinary Medicine, NC State Univ.
- 1997-1999 Research Associate, College of Veterinary Medicine, Department of Farm Animal Health Resources Management, North Carolina State University.
- 1993-1996 Head Veterinarian, Sidama Zone, Southern region Veterinary Department, Awassa, Ethiopia.
- 1990-1993 Field Veterinarian, Department of Agriculture, Borana, Ethiopia.

HONORS and AWARDS

- 2016 *Universitas 21* Internationalization Award (to be conferred May, 2016 Singapore)
- 2015 APLU Michael P. Malone International Leadership Award
- 2015 Andrew Heiskell Award (Honorable mention) for Innovation in International Education, Institute of International Education (IIE)
- 2015 Emerging International Engagement Award, The Ohio State University
- 2014 Digital First Impact Award, The Ohio State University
- 2013 Battelle Endowment for Technology and Human Affairs (BETHA) Award
- 2011 Pfizer Animal Health Research Award
- 2011 Promotion to Full-Professor, The Ohio State University
- 2010 American Society of Microbiology (ASM), International Professorship Award
- 2010 Battelle Endowment for Technology and Human Affairs (BETHA) Award
- 2009 American Society of Microbiology (ASM), Minority Professor of the Month
- 2007-2009 Fellow, President's Provost Leadership Institute Ohio State University
- 2006 Promotion w/ Tenure to Associate Professor, North Carolina State University
- 2004 Induction to Sigma Iota Rho Honorary Society for International Studies.
- 2003 Induction to Phi-Zeta. Honorary Veterinary Society
- 2002 Veterinary Medical Assistance Team (VMAT). Outstanding Contribution to Three Strand National Training Exercise
- 2000 Induction to Sigma-Xi Honorary Research Society

ADMINISTRATIVE and PROFESSIONAL SERVICE

Highlights of Key Professional Leadership Activities:

- 2012- Present **Chair, Global One Health Initiative, The Ohio State University.** In this capacity, I have established a team of faculty members from 13 disciplines including seven

health sciences and six additional colleges that resulted in developing a campus-wide global One Health initiative. Key accomplishments in this position include: 1) successfully led or co-led several successful extramural grants and gifts that are currently being implemented. Some examples include the OIE Twinning program (Univ. of Gondar), the Global Innovation Initiative (Brazil), the NIH eCapacity Building (east Africa) and National Cancer Institute (Ethiopia); 2) chaired and facilitated multi-college annual One Health Summer Institutes that resulted in training more than 500 students and early career faculty in more than 25 courses in Ethiopia and other east African countries; 3) provided service learning opportunities to more than 100 Ohio State students; 4) facilitated resource stewardship including a Linear Accelerator to the University of Gondar Medical Center.

2011-Present **Founding President of the International Congress on Pathogens at the Human Animal Interface (ICOPHAI).** Founded initially as the *Global Veterinary Public Health and Biotechnology Consortium* (VPH-Biotech), this partnership expanded from Eastern Africa to Latin America and also Asia Pacific nations. I have been instrumental in bringing together international partners from various developing regions as well as partners from the developed regions. Together with members of the executive committee, I have led the design, financing and execution of three successful biennial congresses including 2011 (Ethiopia), 2013 (Brazil) and Thailand (2015). It currently includes 994 network subscribers globally including 225+ institutes. More information: <http://icophai2011.org> <http://icophai2013.org> or <http://icophai.org>

2010-Present **Director, Global Health Programs, College of Veterinary Medicine, The Ohio State University.** As the founding Director, I have been instrumental in setting up strategic directions to establish successful and sustainable professional students' centered global programs. Major accomplishments at this position included: 1) established Memoranda of Agreements with nine strategic international partners in sub-Saharan Africa, Latin America and Asia-pacific regions; 2) Acquired large extramural funding to support service learning projects and scholarship for professional DVM and graduate students as well as visiting scholars from partner institutes; 3) Established an elective course in Global opportunities that attracts 50-60 health science students each year; 4) Increased the visibility and professional interaction between Veterinary Medicine, and other collaborating units. More information can be found at <http://vet.osu.edu/global>

2010-Present **NIH Global Infectious Diseases, Molecular Epidemiology of Foodborne Pathogens east Africa Research and training capacity building program.** As the Principal Investigator of this program, I played a major role in designing the program as well as acquiring two successful grants (D43 and R25) from NIH Fogarty International Center and also successfully executing the program in three countries: Ethiopia, Kenya and Tanzania. This program, in addition to providing 7 PhD and 2MSc fellowship to seven east African scientists, it allowed short-term training to more than 100 trainees from the partner institutes. This program has recently expanded an electronic capacity building to further maximize its impact on regional integration of research.

2008-Present **Molecular Epidemiology of Infectious Diseases Global Training.** I have been training global professionals in molecular epidemiology and molecular medicine

since 2008. Together with team of experts, delivered this course in several countries including Brazil, Bulgaria, Ethiopia, Kenya, Mexico, Sudan, Tanzania, Thailand in addition to institutes within the U.S. Due to the increasing demand to this course, we developed an online version of the course that was released on iTunesU in January, 2014. As of January 21, 2016, the online course enrollment has reached to 9,300 students. The course can be accessed at <https://go.osu.edu/MolEpid>

2001-Present **Principal Investigator, Infectious Diseases Molecular Epidemiology Laboratory (IDMEL)**. I have been leading this research laboratory for the last 14 years at two different institutes, NC State University (2001-2006) and Ohio State University (2006- Present). The research activities within IDMEL have been supported through continuous extramural funds for the last 14 years of more than \$4.1 million USD funding (since 2006 alone). I have trained 19 PhD students (12 as major advisor), 21 Masters (MSc or MPH- major advisor to 14), 6 post-doctoral researchers, more than 23 visiting scholars, 12 summer professional students and several undergraduates mentored at IDMEL. Together with collaborators and former trainees, we published 107 (based on Pubmed/ Medline) or 130 (ISI Web of Science) indexed scientific manuscripts in reputable peer-reviewed scientific journals.

1993-1996 **Head Veterinarian, Sidama Zone, Ethiopia**. In this capacity, I led the provincial veterinary medicine activities within the nine districts. I supervised a large team of field veterinarians and one central laboratory professionals including 9 Doctors, more than 27 animal health assistants and health and laboratory technicians. I was responsible for prevention and control of animal diseases, prevention of zoonotic and foodborne pathogens of human health significance to ensure safe food supply. I also oversaw effective implementation of the Pan African Rinderpest Campaign (PARC) in the zone in partnership with the regional PARC vaccination and surveillance team.

Keynote, Plenary and Other Invited Speaker in Scientific Venues and Journal Editorship:

- 2016 Invited Speaker. Presidential Advisory Council on Combating Antibiotic-Resistant Bacteria (PCCARB), Working Group on International Efforts to Combat Antibiotic-Resistant Bacteria (CARB). U.S. Department of Health and Human Services (DHHS). January 28, 2016.
- 2016 Keynote speaker. Fourth One Medicine Conference 2016. Ohio State University. March 17-18, 2016 (*In progress*)
- 2016 Plenary speaker. XIII South Brazil Poultry Symposium. Impact of antimicrobial resistance on the animal production and public health. April 7, 2016, Chapeco, Brazil (*In progress*)
- 2016 Keynote speaker, Roundtable on One Health and Antimicrobial use in Agriculture. Federal University of Parana (UFPR). April 4-5, 2016, Curitiba, Brazil (*In progress*)
- 2015 Invited speaker. Center for Microbial Interface Biology. Comparative Molecular epidemiology of Multi-drug resistance and alternative approaches. Nov. 16, 2015
- 2015 Plenary speaker and panel chair, 3rd Global Risk Forum (GRF) on One Health, Davos, Switzerland (Oct. 4-7, 2015). Engaging Developing regions in One Health implementation- The ICOPHAI model.

- 2015 Invited speaker, BruTX, TedX style conference for Ohio State wide translational sciences symposium. Title: “One Health: One World” (Sep. 29, 2015). It can be accessed at: <https://www.youtube.com/watch?v=y9i8ITKZtac>
- 2015 Plenary speaker, Food and Drug Administration, CFSAN GenomeTrkr annual network meeting, Washington, DC (Sep. 22-23, 2015)
- 2015 Invited speaker. Global Microbial Identifier Annual conference. Molecular epidemiology of MDR *Salmonella*- The ICOPHAI GenomeTrkr partnership. Beijing, China (May, 2015)
- 2015 Invited speaker. Public Health Preparedness on Infectious Diseases (PHPID). Int’l Congress on Pathogens at the Human Animal Interface. Columbus, OH. May, 2015.
- 2015 Invited panel speaker. Best practices in International Education. Institute of International Education (IIE), New York city, NY (March 20, 2015)
- 2015 Keynote speaker. Ohio State Rabies symposium. Ohio State Health Sciences Global One Health Ethiopia Partnership. Columbus, OH. February, 2015.
- 2014 Invited plenary Speaker. African Union, First IGAD Pastoralist Health Summit. The Global One Health Paradigm: Challenges and Opportunity in the Pastoral Community. Addis Ababa, Ethiopia (December, 2014)
- 2014 Invited speaker. Opportunities and Challenges of the Livestock Sector in the Developing World. International Livestock Research Institute. Nairobi, Kenya (November, 2014)
- 2014 Plenary speaker, Responsible use of antibiotics in animals. The Role of co-selective agents in emergence and maintenance of MDR pathogens. The Royal Tropical Institute, Amsterdam, The Netherlands (Sep. 29- Oct. 2, 2014).
- 2014 Keynote speaker, Prevention and Control Approaches against Multi-Drug Resistant (MDR) High Consequence Enteric Pathogens. Strasburg, Austria (September 25-27, 2014).
- 2014 Invited speaker. Kasetsart University. Prevention and Control Approaches against Multi-Drug Resistant (MDR) High Consequence Enteric Pathogens. Bangkok, Thailand. July 18, 2014.
- 2014 Invited speaker. Chiang Mai University. Synergizing Strategies for Measuring, Modeling and Mitigating Antimicrobial Exposure Hazards and Disease Risks at their Origins. Chiang Mai, Thailand. July 16, 2014
- 2014 Keynote speaker. Sustainable One Health Partnership and Its Role on Self Reliance. University of Gondar, 60th Anniversary Summit opening. July 5, 2014.
- 2014 Invited speaker. Elanco Inc. Ohio State Veterinary Medicine Global One Health Partnership. Deerfield, Indiana. March 10, 2014.
- 2014 Panel speaker, Global One Health Partnership and impact on Local (Glocal). Association of International Education Administrators (AIEA), Washington, DC (February, 2014)
- 2014 Invited speaker. Center for Microbial Interface Biology. Global Infectious Diseases Projects and initiatives. Columbus, OH (February 19, 2014).
- 2013 Invited plenary speaker. Mexico Biotechnology Congress. Molecular Epidemiology of Antimicrobial Resistant and Hypervirulent Pathogens. Mazatlan, Mexico (April, 2013)

- 2012 Keynote Speaker, XXI Latin America Microbiology Congress, Santos, Brazil (28 October-31 October, 2012)
- 2012 Keynote speaker. Phytobiotics annual symposium. Stress in Swine Production and association with Pathogen Prevalence, Resistance and Virulence. Nuremberg, Germany. (September, 2012)
- 2011 Congress Chairperson, Inaugural International Congress on Pathogens at the Human-Animal Interface: Impact, Limitations and Needs in Developing Countries. United Nations Conference Center, Addis Ababa, Ethiopia. September 15-17, 2011.
- 2010 Keynote/ Plenary speaker, International Goat Association conference. Recife, Brazil, September 19-22, 2010
- 2010 Plenary Speaker, Optimizing intestinal health in food animals. Conference organized by Phytobiotics GmbH. Nuremberg, Germany. June 17-19, 2010.
- 2010 Guest Editor, Small Ruminant Research Journal (Elsevier)
- 2010 Keynote speaker. International Turkey Diseases conference. Berlin, Germany. May 26-30, 2010
- 2010 10th International Goat Association Conference. Milk Quality in Goats: Technologic Advances and Capacity Needs. Recife, Brazil. September 19-23, 2010.
- 2010 Phytobiotics Symposium. Control and prevention of enteric pathogens using alternatives to antimicrobials. Nuremberg, Germany, June 17-19, 2010.
- 2010 International Turkey Diseases Symposium. Molecular Epidemiology of Antimicrobial resistance and Food Safety. Berlin, Germany. May 28-31, 2010.
- 2009 Present Editorial board member: Foodborne Pathogens and Diseases journal (Mary Ann Liebert)
- 2009- 2011 Guest Editor, Journal of Zoonosis and Public Health (Wiley Blackwell).
- 2009 Keynote Speaker: Asia-Pacific Food safety and Zoonoses Symposium, Chang Mai, Thailand, July 26-29, 2009.
- 2009 Symposium on control of enteric pathogens. Antimicrobial resistance in swine enteric pathogens and control strategies. Rennes, France. June 8-11, 2009.
- 2009 Phytobiotics GMBH symposium. The Role of antimicrobial alternatives in Production immunologic and Gut Physiologic Parameters in Swine. Rennes, France, June 8-11, 2009.
- 2009 National Institute for Semi-Arid (INSA), Preliminary investigation of Methicillin resistant staphylococci in Paraiba, Brazil: a collaborative effort between OSU and UFPB. Campina Grande, Brazil. March 27, 2009.
- 2009 Keynote speaker, workshop on Food safety and molecular epidemiology in semi-arid region of Brazil. March 27, 2009.
<http://jpb1.cabobranco.tv.br/index.php?ev=1&d=2009-03-28>
- 2009 Kenote Speaker: Asia-Pacific Foodborne and Zoonoses Symposium, Molecular Epidemiology of Antimicrobial Resistance among Key Foodborne Pathogens. Chang Mai, Thailand, July 26-29, 2009.
- 2009 Midwestern Veterinary Conference, Columbus, Ohio February 19, 2009. Epidemiology of hypervirulent *Clostridium difficile* in pigs and humans.

- 2008 U.S. Department of Agriculture, Biocide use in swine production systems and association with multi-drug resistant *Salmonella*. Washington, D.C. Nov. 17-19, 2008.
- 2008 Ohio Department of Agriculture, Director's office, Reynoldsburg, OH. Nov. 13, 2008. Antimicrobial use in food animals and association with antimicrobial resistance.
- 2008 Center for African Studies, OSU. Research and training capacity building: veterinary public health in East Africa. Columbus, OH. October 22, 2008.
- 2008 National Pork Board, Prevalence and characterization of Methicillin Resistant *Staphylococcus aureus* (MRSA) in pigs and farm workers. Des Moines, IA. October 14, 2008.
- 2008 Ohio Environmental Council, Prevalence and antimicrobial resistance in antimicrobial-free and conventional production systems. Columbus, OH, June 06, 2008.
- 2008 One Medicine Conference, *Clostridium difficile*: An emerging Zoonosis? Columbus, OH. September 11, 2008.
- 2008 OSU-CVM Alumni reunion weekend continuing education conference, Passive surveillance of MRSA and other predominant pathogens in OSU-VTH. Columbus, OH. September 05, 2008.
- 2008 University of Khartoum, Sudan. Molecular Epidemiology and Characterization of foodborne and nosocomial pathogens. January 22, 2008.
- 2007 Iowa State University, Ames, IA, Truck wash practices and *Salmonella* dispersion in commercial swine production systems. Nov. 7-9, 2007.
- 2007 Phytobiotics GMBH. Food Safety and optimum production of food animals without the use of antimicrobials. October 2, 2007, Munich, Germany.
- 2007 National Pork Board/ CDC/ USDA. Comparative epidemiology, toxino- and genotyping of *Clostridium difficile* isolated from swine and humans. July 30, 2007, Chicago, Illinois.
- 2006 American Association of Veterinary laboratory Diagnosticians (AAVLD) food safety symposium. Antimicrobial use and resistance in foodborne pathogens. Minneapolis, MN. October 12, 2006.
- 2006 USDA, FSIS, Center for learning. Washington, DC, September 14, 2006. *Salmonella* Serotypes that Cause Illness in Humans and Characterization (2 hours lecture for veterinarians, microbiologists and FSIS administrators.)
- 2006 American Association of Swine Veterinarians (AASV) Annual Conference. Kansas City, MO. March 4-7, 2006. Antimicrobial Resistance in Foodborne Pathogens
- 2006 The Ohio State University (OSU), College of Veterinary Medicine, Department of Veterinary Preventive Medicine. January 11, 2006 (candidature for Associate Professor Position.)
- 2005 The Ohio State University (OSU), College of Veterinary Medicine, Department of Veterinary Biosciences. Infectious diseases Signature Program Seminar Series. November 2, 2005.
- 2005 National Pork Board (NPB), Postharvest Needs Assessment Conference. Cincinnati, OH, July 26-27, 2005 *Campylobacter* and food safety issues at postharvest levels.

- 2005 Food and Drug Administration, Center for Veterinary Medicine, Staff College Rockville, MD. March 30, 2005. Lectured on antimicrobial use and antimicrobial resistance issues in Swine production systems.
- 2005 FDA, Center for Veterinary Medicine, Office of Research, Laurel, MD. April 1, 2005. Molecular epidemiology and characterization of *Campylobacter* and *Salmonella* in swine and humans.
- 2005 University of Cape Town, Department of Medical Microbiology., Cape Town, Republic of South Africa (RSA), March 2, 2005. Characterization of Foodborne Pathogens: Phenotypic and Genotypic Approaches.
- 2004 Pork Quality and Safety Summit. August 17-18, 2004. National Pork Board. Des Moines, Iowa. Prevalence and Antibiotic Resistance of *Campylobacter* among Antimicrobial free and conventional Swine Herds.
- 2004 National Animal Health Research Center (NAHRC), Sebeta, Ethiopia. July 8-9, 2004. Workshop on Microbial Isolation/ Identification and Characterization.
- 2004 University of Bristol, School of Veterinary Medicine, United Kingdom. June 18, 2004. Antimicrobial resistance among swine *Salmonella* and *Campylobacter* and Molecular Epidemiology of Multi-drug Resistance.
- 2003 National Pork Board (NPB). December 17, 2003. Des Moines, IA. Review of the 12th International Symposium on *Campylobacter*, *Helicobacter* and Related Organisms. Aarhus, Denmark.
- 2003 National Pork Board (NPB). December 18, 2003. Des Moines, IA. Update on international initiative on harmonization of sampling methods and culturing techniques for *Salmonella*.
- 2003 National Animal Health Research Center (NAHRC). September 29, 2003. Sebeta, Ethiopia. Antimicrobial Resistance of Foodborne Pathogens and Genotypic Approaches.
- 2003 Ethiopian Health and Nutrition Research Institute (EHNRI). September 25, 2003. Addis Ababa, Ethiopia. Diversity of Foodborne Pathogens: Phenotypic and Genotypic Approaches.
- 2003 Addis Ababa University, Faculty of Veterinary Medicine. September 19, 2003. Debre Zeit, Ethiopia. Diversity of Foodborne Pathogens: Phenotypic and Genotypic Approaches.
- 2003 North Carolina Agricultural and Technical State University. *Invited Presentation* at FUTURES Biotechnology and Biodiversity Seminar Series. April 19, 2003. Greensboro, NC. Core Fingerprinting Technologies for Subtyping Foodborne Pathogens.
- 2003 National Pork Board. *Invited Presentation* at the Salmonella Working Group Meeting. May 7-8, 2003. Des Moines, IA. Source, Diversity and Resistance of Foodborne Pathogens in Swine and Pork.
- 2003 North Carolina Swine Veterinarians bimonthly Meeting. *Invited Presentation*. Updates on current activities on food safety in the US pork industry. May 21, 2003. Kenansville, NC.

- 2003 Livestock Insect Research Workers' Conference. *Invited Presentation* on June 22, 2003. Atlantic Beach, NC. Diversity of Foodborne Pathogens: Phenotypic and Genotypic Approaches. Presentation slides will be posted here.
- 2002 *Salmonella* and Antimicrobial Resistance: From Farm to the Genome. Department of Food Science, College of Agriculture and Life Sciences, NC State University. Raleigh, NC. October 28, 2002.
- 2002 Antimicrobial Resistance and Molecular Epidemiology of *Salmonella* in Swine and Humans. Department of Microbiology, College of Agriculture and Life Sciences, NC State University. Raleigh, NC. September 19, 2002.
- 2002 Public Health Aspects of Foodborne Diseases Related to Swine. Pork Quality and Safety Summit. Des Moines, Iowa. June 18, 2002.
- 2001 Molecular Epidemiology of Salmonellae in swine. At Department of Preventive Veterinary Medicine, Ohio State University, Columbus, OH February 27th, 2001.
- 2001 Epidemiology of Salmonellae in swine: from farm to the genome. At Food Animal Health Research Program, Ohio State University, Wooster, OH February 28th, 2001.
- 2001 Molecular Epidemiology of Salmonellae in swine. At Department of Veterinary Medicine, University of Maryland, College Park, MD March 1st, 2001.
- 2001 Antimicrobial Use, Resistance, and Molecular Characterization of *Salmonella* isolated from swine. At Department of Veterinary Anatomy and Public Health, Texas A&M University, College Station, TX, April 2nd, 2001.
- 2002-Present Scientific manuscript ad-hoc *reviewer* to the following journals: *Emerging Infectious Diseases (EID)*, *Applied Environmental microbiology (AEM)*, *Epidemiology and infection*, *Journal of Swine Health and Production*, *Zoonosis and Public Health*, *Foodborne Pathogens and Diseases*, *OIE Scientific and Technical Review*.

Grant Review Panels and Other Professional Services:

- 2016- Member, Center for International Business Education (CIBE) Advisory council
- 2015-2016 Mentor, Mandela Washington Young African Leadership Institute (YALI), The White House initiative, Washington, DC
- 2015-Present Member, Community Engagement Advisory council, Center for Clinical and Translational Sciences (CCTS)
- 2015-Present Member, Global Water Institute Advisory Council
- 2015 Veterinary Medicine Loan Repayment Program, proposal review panel (Aug. 24-27, 2015), NIFA, USDA Washington, DC.
- 2015 Agriculture and Food Research Institute (AFRI) Exploratory grant reviewer, NIFA, USDA (*Ad hoc*)
- 2015 Wellcome Trust, DELTA (United Kingdom) program review panel (March, 2015)
- 2015 Search committee member for Dean of College of Veterinary Medicine, Ohio State University
- 2015 NIH Fogarty International Center, GeoHealth review panel (February & March, 2015)

- 2014 NIH National Cancer Institute U54 Special Emphasis Review Panel
- 2014, 2015 Grant reviewer, Qatar National Research Foundation (QNRF), Doha, Qatar
- 2014-Present Member, University Institutional Animal Care and Use Committee (IACUC)
- 2014 External Board Examiner, Addis Ababa University (Tsegaw Fentie- Aklilu Lema Institute of Pathobiology)
- 2014 Grant reviewer, National Research Foundation (NRF), Republic of South Africa
- 2013 Grant proposal reviewer, Poland Parent Bridge Programme (POMOST), FNP
- 2012 *Grant review panel member*, U.S. Department of Agriculture, Animal Health and Protection panel. Washington, DC. August, 2012
- 2012 *Program reviewer*, Government of Austria, Competence Centers for Excellent Technologies (COMET). February 22-24, 2012.
- 2012-Present International Affairs Council member, The Ohio State University
- 2012-2015 Grant proposal and program progress reviewer, King Abdulaziz City of Science and Technology (KACST), Royal Saudi Arabia Government, through the American Association for Advancement of Sciences (AAAS)
- 2011 *Grant review panel member*, U.S. Department of Agriculture, Animal health and Protection panel. Washington, DC. August, 2011
- 2010-Present External Reviewer for Promotion and Tenure- Cornell University; University of Pennsylvania; University of Georgia; Purdue University; University of Montreal; Jordan University of Science and Technology
- 2010 *Book reviewer*, Mellen Press Inc.
- 2010 Member of the College of Veterinary Medicine, Strategic Leadership Team (SLT)
- 2009 Government of Austria, Competence Centers for Excellent Technologies (COMET) program. Reviewed proposals and consulted on funding priorities.
- 2009 Reviewer for USDA-AFRI and National Science Foundation (NSF) joint program on Microbial Genome Sequencing.
- 2009 *Ad hoc reviewer*- Michigan State University, intramural research program
- 2009 Innovation centers/ Groups initiative, Ohio State University, Reviewer.
- 2009-2011 Member of the national taskforce for establishing Diagnostic accuracy reporting in food safety studies (STARD-FS).
- 2009 Chair, Taskforce for five year program review of the Department of Veterinary Preventive Medicine, Ohio State University.
- 2009 Book Reviewer for *Wiley-Blackwell Publishers Inc.*
- 2009 Report Reviewer for U.S. Department of Agriculture, National Animal Health Monitoring System (NAHMS)
- 2008 *Grant review Panelist*, American Association for Advancement of Science (AAAS) for The Kingdom of Saudi Arabia National Science, Technology and Innovation Plan.
- 2008 U.S. Department of Agriculture, Epidemiological Approaches for Food Safety, grant review panel, Washington, D.C.
- 2008-2011 *Human Health and Safety committee member*, American Association of Swine Veterinarians (AASV).

- 2008 Addis Ababa University: participated in a three-day workshop (June 18-21, 2008) to advise the University Administration on expansion of PhD programs.
- 2008 *Chair, Search committee* for Veterinary Epidemiologist position.
- 2008 *Search committee* member for Director of Clinical Infectious Diseases, OSU-VTH.
- 2007 National Institute of Health (NIH), National Institute of Allergy and Infectious Diseases (NIAID), International Research on Infectious Diseases (IRID) review panelist.
- 2007 PHPID, Mucosal Immunology search committee member
- 2007-Present Council on Research (member), College of Veterinary Medicine, The Ohio State University
- 2006-11 College Infectious Diseases Committee (CIDC), OSU
- 2006 *University of South Australia*. External examiner for a Ph.D. program, School of Pharmacy and Medical Sciences, Adelaide, Australia.
- 2006-Present *National Pork Board*: MRSA Taskforce member; Pharmaceutical Issues Task Force (PITF) member; Pre-harvest Pork Safety committee
- 2006 Medical Research Council, Republic of South Africa. Grant review panel member.
- 2006 *United States Department of Agriculture (USDA)*, CSREES, Animal production and protection, Small Business Innovative Research (SBIR) grant review panel (February 13-15, 2006, Washington, DC).
- 2005 *Medical Research Council (MRC), United Kingdom*. Served as grant reviewer.
- 2005 *Department of Health and Human Services (DHHS)*, HRSA. Bio-Terrorism Training and Curriculum Development Program grant review panel (July 18-21, 2005, Washington, DC).
- 2005 *United States Department of Agriculture (USDA)*, CSREES, National Research Initiative (NRI); Food Safety (32.0B) Postharvest panel (April 4-7, 2005, Washington, DC).
- 2004 *Center for Disease Control and Prevention (CDC)*, Grant Review Panel on Disease, Disability, and Injury Prevention and control special emphasis panel (SEP). Served as lead reviewer in two panels: *Sampling techniques for Norovirus* and *U.S. Burden of Illness* sections (June 9-11, 2004, Atlanta, GA).
- 2004 *United States Department of Agriculture (USDA)*, CSREES, National Research Initiative (NRI). *Ad-hoc grant reviewer* in two sections: *Ensuring Food Safety (32.0)* and *Epidemiological Approaches for Food Safety (32.1)*.
- 2004 *Addis Ababa university, Faculty of Veterinary Medicine*. External board examiner for Postgraduate Programs: Masters of Veterinary Epidemiology and Masters of Veterinary Medicine. Examined 24 postgraduates, served as main examiner for four of the candidates.
- 2004-2006 NCSU, College of Veterinary Medicine. *Leader, Population Medicine concentration area* in the Comparative Biomedical Sciences (CBS) graduate program.
- 2004-2005 NCSU, College of Veterinary Medicine. *Research committee member*.
- 2004 NCSU, College of Veterinary Medicine. *Search committee member*. To recruit swine health and production faculty member.

- 2003-2006 *Southeastern Regional Center for Excellence in Biodefense and Emerging Infections (SERCEB). Affiliate member.* Served as a representative for the College of Veterinary Medicine (CVM).
- 2003-2004 U.S. Army Veterinary Corps. Fort Sam Houston, San Antonio, Texas. Served as instructor in the annual Food Safety and Security courses. Specific focus include *emerging technologies in diagnostics and modern swine production systems and food safety.*
- 2003-2006 North Carolina State University. Member, University standing Committee on International Programs (CIP).
- 2003-2006 *National Pork Board.* Consultant. Antimicrobial Use, Resistance and Impact to the Pork Industry.
- 2003-2006 *United States Department of Agriculture:* Swine Information Database. Pork safety committee.
- 2002-2004 U.S. Veterinary medical Assistance Team (VMAT) training on Multi-hazard, wet-lab. Training on emergency veterinary management.
- 2002-2006 *American College of Veterinary Preventive Medicine:* Credentials Committee. Committee Chair for 2005-2006 cycle.
- 2001-2006 *National Pork Board: Salmonella* working Group committee member.

Scientific/Organizing Committees

- 2011-15 Chair, International Congress on Pathogens at the Human Animal Interface (ICOPHAI).
- 2015 *Scientific committee member,* International Symposium on Foodborne Pathogens Epidemiology and control in Pork (SAFEPOK), Porto, Portugal
- 2013 *Scientific committee member,* International Symposium on Foodborne Pathogens Epidemiology and control in Pork (SAFEPOK), Portland, Maine, USA
- 2011 *Scientific committee member,* 9th International Symposium on Foodborne Pathogens Epidemiology and control in Pork (SAFEPOK), Maastricht, The Netherlands
- 2010 *International Chairperson for Scientific committee.* 10th International Conference on Goats. Recife, Brazil. September 19-23, 2010.
- 2009 *Scientific committee member,* Eighth International Symposium on Foodborne Pathogens Epidemiology and control in Pork (SAFEPOK), Quebec City , Canada from Sep. 29th to Oct. 2nd, 2009.
- 2009 *Technology Assessment consultant:* Department of Homeland Security (DHS), United States, in areas of new detection technologies, molecular epidemiology and source tracking in the food industry and food safety as it relates to livestock.
- 2009 *Symposium chair and organizer:* Environmental reservoir of emerging foodborne pathogens (Session S10). International Association for Food Protection (IAFP) conference to be held in Grapevine, TX from July 12th-15th, 2009.
- 2008 *International Congress committee,* Public Health Preparedness in Infectious Diseases, The Ohio State University.

- 2007 *Organizing committee* member for conference on microbial ecology of antimicrobial resistance. EU-US Safe Food consortium, Madrid, Spain.
- 2007 *Chair, Organizing committee.* Antimicrobial Resistance Conference, September 17, 2007. Columbus, Ohio.

RESEARCH, TRAINING AND OUTREACH GRANTS

- 2015-2018 National Institute of Health, John E. Fogarty International Center. (\$323,631)
Bridging the Gap in eCapacity for Global Health Research and Training In Eastern Africa. **Principal Investigator (PI)**
- 2015-2018 World Organization of Animal Health (OIE) (\$246,000)
University of Gondar--The Ohio State University OIE Veterinary Education Twinning Program. **Co-Principal Investigator** (A. Hoet, PI).
- 2015-2017 U.S. State Department; Global Innovation Initiative (\$199,995)
Applying cutting-edge genomic technologies to prevent the global emergence of antimicrobial resistance at animal-human-environment interface.
Principal Investigator (PI)
- 2015-2017 NIH National Cancer Institute (\$506,291)
Strategies for preventing Epstein-Barr virus-associated malignancies in patients with HIV/AIDS. **Co-Principal Investigator** (R. Baiocchi, PI).
- 2015-2016 Food and Drug Administration (FDA), Center for Food Safety and Applied Nutrition (CFSAN). The 1000 *Salmonella* Whole Genome project- ICOPHAI GenomeTrkr.
Principal Investigator (PI)
- 2015-2020 Centers for Disease Control and Prevention (\$9.3M- approved/ pending)
Ohio State East Africa Global One Health Security. **Principal Investigator (PI)**
- 2014-2016 Digital First Impact, ODEE (\$25,000)
Digitizing Global One Health Activities at Ohio State. **Principal Investigator (PI)**
- 2014-2015 Center for Clinical and Translational Sciences (CCTS) (\$25,000)
Improved diagnosis of *Mycobacterium bovis* Infections in human and cattle
Co-Principal Investigator (S-H. Wang, PI).
- 2013-2017 USDA National Food and Agriculture Initiative [NIFA] (\$799,958)
Effective interventions to prevent emergence and dissemination of antimicrobial resistance at the population, animal, and microbial levels. **Co-Investigator** (Wittum, T. PI).
- 2013-2014 National Institute of Health, NIAID (R13) (\$12,000)
The second international conference on pathogens at the human-animal interface (ICOPHAI 2013). **Principal Investigator (PI)**
- 2013-2014 USDA National Food and Agriculture Initiative (NIFA) (\$10,000)
The second international conference on pathogens at the human-animal interface (ICOPHAI 2013). **Principal Investigator (PI)**
- 2013-2014 USDA Foreign Agriculture Services (FAS) (\$56,261.70)
Food safety standards and regulations. **Co-Principal Investigator** (Rajashekara, PI).
- 2013-2016 Phytobiotics GmbH and Huvepharma (\$223,322.08)

- Role of Plant Alkaloid, QBA and Flavophospholipols on reducing multi-drug resistant *Salmonella* in food animals. **Principal Investigator (PI)**
- 2013-2016 Outreach and Engagement impact grant (\$121,483)
Rabies Elimination: “One Health” Prototype for Zoonotic Diseases Control.
Principal Investigator (PI)
- 2012-2015 Battelle Endowment for Technology and Human Affairs [BETHA] (\$52,000)
Narrowing Technology Gaps between Ohio State and Eastern Africa using Mobile Electronic Data Capture and Analysis System for Zoonotic Diseases Research and Training. **Principal Investigator (PI)**
- 2011-2013 USDA Foreign Agriculture Services (FAS), Cochran Fellowship (\$54,219)
Private veterinary Business training for eastern European countries. **Co-Principal Investigator** (Silveira F., PI).
- 2011-2013 National Science Foundation (NSF), Environmental Biology (\$49,425)
A symposium celebrating 50 years of FAPESP and the scientific partnership between Brazil and the United States. **Co-Principal Investigator** (Janies, D., PI).
- 2011-2013 USDA NPB Joint Antimicrobial resistance monitoring program- Swine (\$150,000)
Principal Investigator (PI)
- 2010-2016 National Institute of Health, John E. Fogarty Center (\$723,949)
Global Infectious Diseases Research and Training Program. Molecular Epidemiology and key issues in foodborne pathogens in eastern Africa.
Principal Investigator (PI)
- 2010-2012 Battelle Endowment for Technology and Human Affairs [BETHA] (\$50,000)
Service Learning in Veterinary Public Health and Biotechnology in Eastern Africa
Principal Investigator (PI)
- 2010-2012 Global Gateways Research Grant.
Milk Quality Assessment in Semi-Arid Brazil. **Principal Investigator (PI)**
- 2010-2011 Global Gateways, interactive Course grant.
Molecular Epidemiology of Infectious Diseases course- Federal Univ. Goias, Brazil
Principal Investigator (PI)
- 2009-2018 AFRI (USDA-NIFA)
Effectiveness of Reduced Agricultural Antimicrobial Usage as a Food Safety Intervention. **Co- Principal investigator** (T. Wittum, PI).
- 2009-2011 National Institute of Health (MCEIRS).
MCEIRS influenza A virus research network in wild birds
Co-Principal Investigator (R. Slemmons, PI).
- 2009-2010 NPB- Public Health Program.
Occurrence and Molecular epidemiology of Methicillin Resistant *Staphylococcus aureus* (MRSA) on farm, at slaughter and pork
Principal Investigator
- 2008-2011 USDA- National Integrated Food Safety Initiative (NIFSI).
An Integrated Approach to determine *Salmonella* Dynamics in the Niche-Market Antimicrobial-Free Swine Production System
Co- Principal Investigator (S. Thakur, PI)

- 2008-2009 National Pork Board
Genotyping of *Campylobacter coli* in pigs from farm to fork
Principal Investigator
- 2008-2010 National Pork Board (NPB).
Prevalence and characterization of Methicillin Resistant *Staphylococcus aureus* (MRSA) in pigs and farm workers on conventional and antibiotic free swine farms in the USA: a collaborative effort among OSU, UMN and UIA. **Principal Investigator** (for Ohio portion)
- 2007-2012 USDA- National Research Initiative (NRI).
Biocide and Heavy metal use in swine production and association with multi-drug resistant *Salmonella*. **Principal Investigator**
- 2007-2008 National Pork Board.
Epidemiology, Toxino- and Genotyping of *Clostridium difficile* isolated from Swine production systems. **Principal Investigator**
- 2006-2008 National Pork Board.
In-plant factors and transfer of antimicrobial resistance among four organisms: *Salmonella*, *Campylobacter*, *E. coli* and enterococci. **Principal Investigator**
- 2005-2006 National Pork Board.
Development of a Microarray for the Rapid and Simultaneous Detection and Tracking of Bacterial and Viral Foodborne Pathogens. **Principal Investigator**
- 2004-2007 US Department of Agriculture.
Integrated water-shed based molecular and hydrologic monitoring to assess pathogen loading in estuarine environment. **Co- Principal Investigator** (N. White, PI).
- 2004-2007 US Department of Agriculture.
Agricultural Ceftiofur Use and the Dissemination of third-generation cephalosporin resistance genetics of public health concern
Co- Principal Investigator (T. Wittum, PI).
- 2004-2006 Intervet Pharmaceutical Inc.
Effect of Flavophospholipol against antimicrobial resistant *Salmonella enterica* in Pigs. **Principal Investigator**
- 2004-2005 National Pork Board.
Serological Analysis of *Trichniella* and *Toxoplasma* among samples isolated from conventional and antimicrobial free swine. **Principal Investigator**
- 2003-2005 US Department of Agriculture.
Tracking the Source of Enteric Pathogens in Surface Waters
Co-investigator (J. Levine, PI).
- 2002-2006 US Department of Agriculture.
Source, Diversity and Resistance of Foodborne Pathogens in Swine and Pork
Principal Investigator
- 2002-2005 North Carolina Pork Council.
Genetic Analysis of Factors Affecting Introduction and Dissemination of Resistant *Salmonella* and *Campylobacter* in Pork. **Principal Investigator**
- 2001-2005 US Department of Agriculture.
Biosecurity and Diversity of Foodborne Pathogen on Poultry Farms

- Co-investigator** (J.P. Vaillancourt, PI)
2002-2004 US Department of Agriculture.
Farm injuries and Illnesses Project in North Carolina
- Co-Principal Investigator** (W. Gregory Cope, PI)
1998-2000 National Pork Producers Council.
On-farm antimicrobial use and patterns of antimicrobial resistance of *Salmonella* isolates collected on-farms and at slaughter plants
- Co-investigator** (P. Davies, PI)
1999-2002 North Carolina Pork Council.
Molecular Epidemiology of Multiple-Resistant *Salmonella* in Swine
- Collaborator** (P. Davies, PI)

PUBLICATIONS

Publications in Peer-Reviewed Scientific Journals:

1. Seyoum ET, Woldetsadik DA, Mekonen TK, Gezahegn HA, **Gebreyes WA***. 2015. Prevalence of *Listeria monocytogenes* in raw bovine milk and milk products from central highlands of Ethiopia. *J Infect Dev Ctries.* 9(11):1204-9. doi: 10.3855/jidc.6211. PMID: 26623629
2. Kashoma IP, Kassem II, Kumar A, Kessy BM, **Gebreyes W**, Kazwala RR, Rajashekara G. 2015. Antimicrobial Resistance and Genotypic Diversity of *Campylobacter* Isolated from Pigs, Dairy, and Beef Cattle in Tanzania. *Front Microbiol.* 6:1240.
3. Eguale T, **Gebreyes WA**, Asrat D, Alemayehu H, Gunn JS, Engidawork E. 2015. Non-typhoidal *Salmonella* serotypes, antimicrobial resistance and co-infection with parasites among patients with diarrhea and other gastrointestinal complaints in Addis Ababa, Ethiopia. *BMC Infect Dis.* 15:497. doi: 10.1186/s12879-015-1235-y. PMID: 26537951
4. Artuso-Ponte V, Moeller S, Rajala-Schultz P, Medardus JJ, Munyalo J, Lim K, **Gebreyes WA***. 2015. Supplementation with Quaternary Benzo(c)phenanthridine Alkaloids Decreased Salivary Cortisol and *Salmonella* Shedding in Pigs After Transportation to the Slaughterhouse. *Foodborne Pathog Dis.* 12(11):891-7. doi: 10.1089/fpd.2015.2009. PMID: 26393495
5. Oliveira CJ, Tiao N, de Sousa FG, de Moura JF, Santos Filho L, **Gebreyes WA***. 2015. Methicillin-Resistant *Staphylococcus aureus* from Brazilian Dairy Farms and Identification of Novel Sequence Types. *Zoonoses Public Health.* doi: 10.1111/zph.12209. PMID: 26178302
6. Kashoma IP, Kassem II, John J, Kessy BM, **Gebreyes W**, Kazwala RR, Rajashekara G. 2015. Prevalence and Antimicrobial Resistance of *Campylobacter* Isolated from Dressed Beef Carcasses and Raw Milk in Tanzania. *Microb Drug Resist.* [Epub ahead of print]. PMID: 26153978.
7. Tigabu E, Asrat D, Kassa T, Sinmegn T, Molla B, **Gebreyes W***. 2015. Assessment of Risk Factors in Milk Contamination with *Staphylococcus aureus* in Urban and Peri-Urban Small-Holder Dairy Farming in Central Ethiopia. *Zoonoses Public Health.* doi: 10.1111/zph.12199. PMID: 25916167
8. **Gebreyes WA***, Adkins PR. 2015. The use of pulsed-field gel electrophoresis for genotyping of *Clostridium difficile*. *Methods Mol Biol.* 1301:95-101. doi: 10.1007/978-1-4939-2599-5_9. PMID: 25862051

9. Jácome IS, Sousa FG, De Leon CM, Spricigo DA, Saraiva MM, Givisiez PE, **Gebreyes WA**, Vieira RF, Oliveira CJ. 2014. Pre-parturition staphylococcal mastitis in primiparous replacement goats: persistence over lactation and sources of infection. *Vet Res.* 45:115. doi: 10.1186/s13567-014-0115-6.
10. **Gebreyes W***, Dupuoy-Camet J, Newport M, Oliveira C, Kazwala R, King L et al. 2014. The Global One Health Paradigm: Challenges and Opportunities for Tackling Infectious Diseases at the Human, Animal and Environment Interface in Low-resource Settings. *PLoS NTD*; 13;8(11): e3257.
11. Kashoma IP, Kumar A, Sanad YM, **Gebreyes W**, Kazwala RR, Garabed R, Rajashekara G. 2014. Phenotypic and Genotypic Diversity of Thermophilic *Campylobacter spp.* in Commercial Turkey Flocks: A Longitudinal Study. *Foodborne Pathog Dis.* 11(11): 850-60.
12. Eguale T, Marshall J, Molla B, Bhatiya A, **Gebreyes WA**, Engidawork E, Asrat D, Gunn JS. 2014. Association of multicellular behavior and drug resistance in *Salmonella enterica* serovars isolated from animals and humans in Ethiopia. *J Appl Microbiol.* doi: 10.1111/jam.12579.
13. Pornsukarom S, Patchanee P, Erdman M, Cray PF, Wittum T, Lee J, **Gebreyes WA***. 2014. Comparative Phenotypic and Genotypic Analyses of *Salmonella* Rissen that Originated from Food Animals in Thailand and United States. *Zoonoses Public Health.* doi: 10.1111/zph.12144.
14. Tadee P, Kumpapong K, Sinthuya D, Yamsakul P, Chokesajjawatee N, Nuanualsuwan S, Pornsukarom S, Molla BZ, **Gebreyes WA**, Patchanee P. 2014. Distribution, quantitative load and characterization of *Salmonella* associated with swine farms in upper-northern Thailand. *J Vet Sci.* 15(2): 327-34
15. Medardus JJ, Molla BZ, Nicol M, Morrow WM, Rajala-Schultz PJ, Kazwala R, **Gebreyes WA***. 2014. In-feed use of heavy metal micronutrients in U.S. swine production systems and its role in persistence of multi-drug resistant salmonellae. *Appl Environ Microbiol.* 80(7): 2317-25. doi: 10.1128/AEM.04283-13.
16. Keelara S, Scott HM, Morrow WM, Hartley CS, Griffin DL, **Gebreyes WA**, Thakur S. 2014. Comparative phenotypic and genotypic characterization of temporally related non-typhoidal *Salmonella* isolated from human clinical cases, pigs, and the environment in North Carolina. *Foodborne Pathog Dis.* 11(2): 156-64. doi: 10.1089/fpd.2013.1630.
17. Robbins RC, Artuso-Ponte VC, Moeser AJ, Morrow WE, Spears JW, **Gebreyes WA***. 2013. Effects of quaternary benzo(c)phenanthridine alkaloids on growth performance, shedding of organisms, and gastrointestinal tract integrity in pigs inoculated with multidrug-resistant *Salmonella spp.* *Am J Vet Res.* 74(12):1530-5. doi: 10.2460/ajvr.74.12.1530.
18. Wenner BA, Zerby HN, Boler DD, **Gebreyes WA**, Moeller SJ. 2013. Effect of mannan oligosaccharides (Bio-Mos) and outdoor access housing on pig growth, feed efficiency and carcass composition. *J Anim Sci.* 91(10): 4936-44.
19. Keelara S, Scott HM, Morrow WM, **Gebreyes WA**, Correa M, Nayak R, Stefanova R, Thakur S. 2013. Longitudinal study of distributions of similar antimicrobial-resistant *Salmonella* serovars in pigs and their environment in two distinct swine production systems. *Appl Environ Microbiol.* 79(17):5167-78.
20. Scheuer KA, Oka T, Hoet AE, **Gebreyes WA**, Molla BZ, Saif LJ, Wang Q. 2013. Prevalence of porcine noroviruses, molecular characterization of emerging porcine sapoviruses from finisher swine in the United States, and unified classification scheme for sapoviruses. *J Clin Microbiol.* 51(7):2344-53.

21. Smith TC, **Gebreyes WA**, Abley MJ, Harper AL, Forshey BM, Male MJ, Martin HW, Molla BZ, Sreevatsan S, Thakur S, Thiruvengadam M, Davies PR. 2013. Methicillin-resistant *Staphylococcus aureus* in pigs and farm workers on conventional and antibiotic-free swine farms in the USA. *PLoS One*. 8(5):e63704.
22. Walker JB, Walker WL, Degraives FJ, Mathews JL, **Gebreyes WA**, Rajala-Schultz PJ. *Staphylococcus aureus* shedding pattern throughout lactation in dairy cows with naturally occurring intramammary infection. *J Am Vet Med Assoc*. 2013 May 15;242(10):1410-8.
23. Dubey JP, Tilahun G, Boyle JP, Schares G, Verma SK, Ferreira LR, Oliveira S, Tiao N, Darrington C, **Gebreyes WA**. 2013. Molecular and biological characterization of first isolates of *Hammondia hammondi* from cats from Ethiopia. *J Parasitol*. 99(4):614-8. doi: 10.1645/12-51.1. PMID: 23517380
24. Dubey JP, Choudhary S, Tilahun G, Tiao N, **Gebreyes WA**, Zou X, Su C. 2013. Genetic diversity of *Toxoplasma gondii* isolates from Ethiopian feral cats. *Vet Parasitol*. 196(1-2): 206-8. doi: 10.1016/j.vetpar.2013.01.015. PMID: 23411374
25. Tilahun G, Tiao N, Ferreira LR, Choudhary S, Oliveira S, Verma SK, Kwok OC, Molla B, Saville WJ, Medhin G, Kassa T, Aleme H, **Gebreyes WA**, Su C, Dubey JP. 2013. Prevalence of *Toxoplasma gondii* from free-range chickens (*Gallus domesticus*) from Addis Ababa, Ethiopia. *J Parasitol*. 99(4):740-1. doi: 10.1645/12-25.1. PMID: 23259902
26. Dubey JP, Darrington C, Tiao N, Ferreira LR, Choudhary S, Molla B, Saville WJ, Tilahun G, Kwok OC, **Gebreyes WA**. 2013. Isolation of viable *Toxoplasma gondii* from tissues and feces of cats from Addis Ababa, Ethiopia. *J Parasitol*. 99(1):56-8. doi: 10.1645/GE-3229.1. PMID: 22924928
27. Tiao N, Darrington C, Molla B, Saville WJ, Tilahun G, Kwok OC, **Gebreyes WA**, Lappin MR, Jones JL, Dubey JP. 2013. An investigation into the seroprevalence of *Toxoplasma gondii*, *Bartonella spp.*, feline immunodeficiency virus (FIV), and feline leukaemia virus (FeLV) in cats in Addis Ababa, Ethiopia. *Epidemiol Infect*. 141(5):1029-33. doi: 10.1017/S0950268812001707. PMID: 22857007
28. N Rusenova, **W Gebreyes**, M Koleva, J Mitev, T Penev, N Vasilev. 2013. Comparison of three methods for routine detection of *Staphylococcus aureus* isolated from bovine mastitis. *Kafkas Univ Vet Fak Derg* 19 (4), 709-712
29. JA Funk, MJ Abley, AS Bowman, **WA Gebreyes**, WEM Morrow, D. Tadesse. 2013. Prevalence of *Yersinia enterocolitica* in Antimicrobial-Free and Conventional Antimicrobial Use Swine Production. *Foodborne pathogens and disease* 10 (6), 514-519
30. Dubey JP, Tiao N, **Gebreyes WA**, Jones JL. 2012. A review of toxoplasmosis in humans and animals in Ethiopia. *Epidemiol Infect*. 140(11): 1935-8. PMID: 22874099
31. Mollenkopf DF, Weeman MF, Daniels JB, Abley MJ, Mathews JL, **Gebreyes WA**, Wittum TE. 2012. Variable within- and between-herd diversity of CTX-M cephalosporinase-bearing *Escherichia coli* isolates from dairy cattle. *Appl Environ Microbiol*. 78(13): 4552-60. PMC3370478
32. B Molla, M Byrne, M Abley, J Mathews, CR Jackson, P Fedorka-Cray, S. Sreevatsan, P. Wang and **WA Gebreyes***. 2012. Epidemiology and genotypic characteristics of methicillin-resistant *Staphylococcus aureus* strains of porcine origin. *J Clin Microbiol* 50 (11): 3687-3693
33. MJ Abley, TE Wittum, JA Funk, **WA Gebreyes**. 2012. Antimicrobial susceptibility, pulsed-field gel electrophoresis, and multi-locus sequence typing of *Campylobacter coli* in swine

- before, during, and after the slaughter process. *Foodborne pathogens and disease*. 9 (6): 506-512.
34. NPA Rodrigues, PEN Givisiez, R Queiroga, PS Azevedo, **WA Gebreyes**, CB Oliveira. 2012. Milk adulteration: Detection of bovine milk in bulk goat milk produced by smallholders in northeastern Brazil by a duplex PCR assay. *Journal of dairy science* 95 (5): 2749-52.
 35. DF Mollenkopf, MF Weeman, JB Daniels, MJ Abley, JL Mathews, **WA Gebreyes** and T Wittum. 2012. Diversity of CTX-M cephalosporinase-bearing *Escherichia coli* isolated from dairy cattle is variable within and between herds. *Applied and Environmental Microbiology*, 00373-12.
 36. PR Fry, S Thakur, **WA Gebreyes***. 2012. Antimicrobial Resistance, Toxinotype and Genotypic Profiling of *Clostridium difficile* of swine origin. *J Clin Microbiol* 06581-11.
 37. BK Decker, F Perez, AM Hujer, KM Hujer, GS Hall, MR Jacobs, **WA Gebreyes**, R. Bonomo. 2012. Longitudinal analysis of the temporal evolution of *Acinetobacter baumannii* strains in Ohio, USA, by using rapid automated typing methods. *PloS One* 7 (4), e33443
 38. Wang Q, Scheuer K, Ahang Z, **Gebreyes WA**, Molla BZ, Hoet AE, Saif LJ. 2011. Characterization and prevalence of a new porcine Calicivirus in Swine, United States. *Emerg Infect Dis*. 17(6):1103-6.
 39. Srinivasan VB, Rajamohan G, Pancholi P, Marcon M, **Gebreyes WA***. 2011. Molecular cloning and functional characterization of two novel membrane fusion proteins in conferring antimicrobial resistance in *Acinetobacter baumannii*. *J Antimicrob Chemother*. 66(3): 499-504.
 40. Walker JB, Rajala-Schultz PJ, Walker WL, Mathews JL, **Gebreyes WA**, Degraives FJ. 2011. Variation in daily shedding patterns of *Staphylococcus aureus* in naturally occurring intramammary infections. *J Vet Diagn Invest*. 23(6):1114-1122.
 41. Sanad YM, Kassem II, Abley M, **Gebreyes W**, LeJeune JT, Rajashekara G. 2011. Genotypic and phenotypic properties of cattle-associated *Campylobacter* and their implications to public health in the USA. *PloS One*. 6(10): e25778.
 42. Wang B, Wang C, McKean JD, Logue CM, **Gebreyes WA**, Tivendale KA, O'Connor AM. 2011. *Salmonella enterica* in swine production: assessing the association between amplified fragment length polymorphism and epidemiological units of concern. *Appl Environ Microbiol*. 77(22): 8080-7.
 43. Oliveira CJ, Lopes Júnior WD, Queiroga RC, Givisiez PE, Azevedo PS, Pereira WE, **Gebreyes WA**. 2011. Risk factors associated with selected indicators of milk quality in semiarid northeastern Brazil. *J Dairy Sci*. 94(6): 3166-75.
 44. Wang Q, Scheuer K, Ahang Z, **Gebreyes WA**, Molla BZ, Hoet AE, Saif LJ. 2011. Characterization and prevalence of a new porcine Calicivirus in Swine, United States. *Emerg Infect Dis*. 17(6): 1103-6.
 45. Lutz EA, McCarty MJ, Mollenkopf DF, Funk JA, **Gebreyes WA**, Wittum TE. 2011. Ceftiofur use in finishing swine barns and the recovery of fecal *Escherichia coli* or *Salmonella* spp. Resistant to ceftriaxone. *Foodborne Pathog Dis*. 8(11): 1229-34.
 46. Wang B, Wang C, McKean JD, Logue CM, **Gebreyes WA**, Tivendale KA, O'Connor AM. 2011. *Salmonella enterica* in swine production: assessing the association between amplified fragment length polymorphism and epidemiological units of concern. *Appl Environ Microbiol*. 77(22): 8080-7.

47. Hoet AE, Johnson A, Nava-Hoet RC, Bateman S, Hillier A, Dyce J, **Gebreyes WA**, Wittum TE. 2011. Environmental methicillin-resistant *Staphylococcus aureus* in a veterinary teaching hospital during a non-outbreak period. *Vector Borne Zoonotic Dis.* 2011 Jun;11(6):609-15.
48. Sibhat B, Molla Zewde B, Zerihun A, Muckle A, Cole L, Boerlin P, Wilkie E, Perets A, Mistry K, **Gebreyes WA**. 2011. *Salmonella* Serovars and Antimicrobial Resistance Profiles in Beef Cattle, Slaughterhouse Personnel and Slaughterhouse Environment in Ethiopia. *Zoonoses Public Health.* 58(2):102-9.
49. Srinivasan V., Rajamohan G., Pancholi P., Stevenson K., Marcon M. and **Gebreyes WA***. 2011. Molecular cloning and functional characterization of two novel membrane fusion proteins in conferring antimicrobial resistance in *Acinetobacter baumannii*. *J. Antimicrobial Chemotherapy* 66 (3): 499-504
50. CJB Oliveira, ER Hisrich, JFP Moura, PEN Givisiez, RG Costa, **WA Gebreyes**. 2011. On farm risk factors associated with goat milk quality in Northeast Brazil. *Small Ruminant Research* 98 (1), 64-69.
51. C. J. B. Oliveira, W. D. Lopes Júnior, R. C. R. E. Queiroga, P. E. N. Givisiez, **W. A. Gebreyes** and P. S. Azevedo. 2011. Risk factors associated to microbiological traits and somatic cell counts of bulk milk in semi-arid northeastern Brazil. *J Dairy Science* 94 (6), 3166-3175.
52. J Lutz, B Molla, F Silveira, **W Gebreyes**, EA Lutz. 2011. Using infrared thermal imaging for mass screening of production animals for early detection of febrile diseases. *Epidémiologie et Santé Animale*, 169-170.
53. Molla B., Sterman A., Mathews J., Artuso-Ponte V., Abley M., Farmer W., Rajala-Schultz P., Morrow WEM., **Gebreyes WA***. 2010. *Salmonella enterica* in commercial swine feed and subsequent isolation of phenotypically and genotypically clonal strains in fecal samples. *Applied Environ Microbiol* 76 (21):7188-93.
54. Tadesse DA., Bahnson PB., Funk JA., Thakur S., Morrow WEM., Wittum T., DeGraves F., Rajala-Schultz PJ and **Gebreyes WA***. 2010. Prevalence and Antimicrobial Resistance Profile of *Campylobacter spp.* Isolated from Conventional and Antimicrobial Free Production Systems from Different U.S. Regions. *Foodborne Pathog Dis.* 8(3):367-74
55. Thakur S, **Gebreyes WA**. 2010. Phenotypic and genotypic heterogeneity of *Campylobacter coli* within individual pigs at farm and slaughter in the US. *Zoonoses Public Health.* 2010 Nov; 57 Suppl 1:100-6. Doi: 10.1111/j.1863-2378.2010.01363.x.
56. Tadesse DA., Bahnson PB., Funk JA., Thakur S., Morrow WEM., Wittum T., DeGraves F., Rajala-Schultz PJ and **Gebreyes WA***. 2010. *Yersinia enterocolitica* of pig origin, carriage of virulence genes and genotypic diversity. *Foodborne Pathog Dis.* (submitted)
57. Wittum TE, Mollenkopf D, Abley M, Fry P, Daniels J and **Gebreyes WA**. 2010. CTX-M-type extended-spectrum β -lactamases present in *Escherichia coli* from the feces of cattle in Ohio, United States. *Foodborne Pathog Dis.* 7(12):1575-9.
58. Alali WQ, Thakur S., Berghaus R., Martin MP and **Gebreyes WA**. 2010. Prevalence and Distribution of *Salmonella* in Organic and Conventional Broiler Poultry Farms. *Foodborne Pathog Dis.* (In Press)
59. Patchanee P, Molla B, Line D, White N and **Gebreyes WA***. 2010. Tracking *Salmonella* and various watersheds using phenotypic and genotypic approaches. *Foodborne Pathog Dis.* 7(9):1113-20.

60. Rajamohan G., Srinivasan V., and **Gebreyes, WA***. 2010. Molecular and functional characterization of a novel efflux pump, AmvA, in mediating antimicrobial and disinfectant resistance in *Acinetobacter baumannii*. *J. Antimicrobial Chemotherapy* 65(9):1919-25.
61. Thakur S, Zhao S, McDermott PF, Harbottle H, Abbott J, English L, **Gebreyes WA**, White DG. 2010. Antimicrobial Resistance, Virulence, and Genotypic Profile Comparison of *Campylobacter jejuni* and *Campylobacter coli* Isolated from Humans and Retail Meats. *Foodborne Pathog Dis.* 7(7):835-44.
62. Drozd M, Kassem H, **Gebreyes W**, Rajashekara G. 2010. A quantitative polymerase chain reaction assay for detection and quantification of *Lawsonia intracellularis*. *J Vet Diagn Invest.* 22(2):265-9.
63. Rajamohan G, Srinivasan VB, **Gebreyes WA***. 2010. Novel role of *Acinetobacter baumannii* RND efflux transporters in mediating decreased susceptibility to biocides. *J Antimicrob Chemother.* 65(2):228-32.
64. MM Sopirala, JE Mangino, **WA Gebreyes**, B Biller, T Bannerman, P Pancholi. 2010. Synergy testing by Etest, microdilution checkerboard, and time-kill methods for pan-drug-resistant *Acinetobacter baumannii*. *Antimicrobial agents and chemotherapy* 54 (11), 4678-4683.
65. Vijaya Bharathi Srinivasan, Govindan Rajamohan and **Gebreyes WA***. 2009. The Role of a novel efflux pump AbeS, member of the SMR family of transporters in resistance to antimicrobial agents in *Acinetobacter baumannii*. *Antimicrobial Agents and Chemotherapy* 53(12):5312-6.
66. L Alban, **W Gebreyes**, S Quessy, A Rajic, P Wolf. 2010. Special Issue: SafePork. *Zoonoses and Public Health* 57 (s1), 1-134.
67. Heider LC, Hoet AE, Wittum TE, Khaita ML, Love BC, Huston CL, Morley PS, Funk JA, **Gebreyes WA**. 2009. Genetic and Phenotypic Characterization of the *bla*(CMY) Gene from *Escherichia coli* and *Salmonella enterica* Isolated from Food-Producing Animals, Humans, the Environment, and Retail Meat. *Foodborne Pathog Dis.* 6(10):1235-40.
68. Rajamohan G, Srinivasan V and **Gebreyes WA***. 2009. Biocide-tolerant multi-drug resistant *Acinetobacter baumannii* clinical strains are associated with higher biofilm formation. *J Hosp Infect.* 73(3):287-9.
69. Dorr PM and **Gebreyes WA**. 2009. Flavophospholipol: Effect on multi-drug resistant *Salmonella enterica* 21erovars Typhimurium in swine. *J. Swine health Production* 17:308-17.
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Book Chapters:

1. **Gebreyes WA***, G. Habing, W. Alali, T. Wittum and S. Suzuki. 2016 (*In progress*). Spread of Antibiotic Resistance in the Food Chain. Elsevier.
2. **Gebreyes WA***, Adkins PR. 2015. The use of pulsed-field gel electrophoresis for genotyping of *Clostridium difficile*. *Methods Mol Biol.* 1301:95-101. Doi: 10.1007/978-1-4939-2599-5_9. PMID: 25862051
3. Gebreyes WA and Thakur S. 2009. **Phenotypic subtyping of foodborne pathogens**. Stanley Brul et al., Ed. Woodhead Publishing, United Kingdom (*In press*).
4. Cowen, P., D.E. Hansen, C.L. Hofacre, E.J. Noga, D.G. Pyburn, and **A. Gebreyes, Wondwossen**. 2003. Food Animal Industry Activities in Food Safety. In M. Torrence and R. Isaacson ed. *Microbial Food Safety in Animal Agriculture: Current Topics*. Iowa State Press. Blackwell Publishing. 19-34.

Scholarly Activities Featured on News and in Scientific Magazines:

1. Ebola Epidemic: What Happened and What We Learned. National Public Radio Affiliate, WOSU. All Sides with Ann Fisher. Nov. 3, 2015. Audio and video can be accessed at <http://radio.wosu.org/post/ebola-epidemic-what-happend-and-what-we-learned#stream/0>
2. One Health: One World. BruTX Featured speaker (TedX style). Sep. 29, 2015. Presentation can be accessed at <https://www.youtube.com/watch?v=y9i8ITKZtac>

3. How to stop the next Ebola: Call in the Veterinarians. *The National Journal*. November 24, 2014 (Washington, DC). <http://www.nationaljournal.com/health-care/2014/11/24/how-stop-next-ebola-call-veterinarians>
4. Ebola a stark reminder of link between health of humans, animals, environment. *Science Daily*. November 13, 2014. <http://www.sciencedaily.com/releases/2014/11/141113141816.htm>
5. Do Farm Animals Spread Antimicrobial Resistance? *Bioscience*. June, 2014. <http://bioscience.oxfordjournals.org/content/early/2014/01/06/biosci.bit026>
6. OSU Alumni Magazine. November, 2013. Cover page. Detailed profiling of programs within the Ohio State Ethiopia One Health partnership.
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8. Destination: Ethiopia. The Ohio State University Featured videos. April 3, 2014. <https://www.osu.edu/features/2014/destination-ethiopia.html>
9. Free range Trichinosis. *New York Times*. Op-Ed. April 10, 2009. http://www.nytimes.com/2009/04/10/opinion/10mcwilliams.html?_r=2&ref=opinion
10. The role of molecular epidemiology in food safety workshop (Segurança Alimentar é tema de curso no INSA), March 23, 2009, Fome Zero (No Hunger) National Brazilian program. <http://www.fomezero.gov.br/noticias/seguranca-alimentar-e-tema-de-curso-no-insa>
http://www.insa.gov.br/index.php?option=com_content&task=view&id=137&Itemid=100
11. Seroprevalence of *Trichinella*, *Toxoplasma*, and *Salmonella* in Antimicrobial-Free and Conventional Swine Production Systems. *American Association of Swine Veterinarians Newsletter*. June 18, 2008. URL: <http://www.aasv.org/news/story.php?id=3066>
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13. Antibiotic-free pigs carry more Pathogens, But Is that a Bad Thing? *Discover Magazine*, June 12th, 2008 (Andrew Moseman ed.). URL: <http://blogs.discovermagazine.com/discoblog/2008/06/12/antibiotic-free-pigs-carry-more-pathogens-but-is-that-a-bad-thing/>
14. Pigs Raised Without Antibiotics More Likely To Carry Bacteria, Parasites. *Science Daily Magazine*. June 12, 2008. <http://www.sciencedaily.com/releases/2008/06/080611144016.htm>
15. Pigs Raised Without Antibiotics More Likely To Carry Bacteria, Parasites. Ohio State University, Research News. June 12, 2008. <http://researchnews.osu.edu/archive/porkfarms.htm>
16. Infectious Disease: Expecting the Worst (By Melissa Lee Phillips). *Environmental Health perspectives*. Published by NIEHS. June 2005. Vol. 113 (6): A371.
17. Characterization of antimicrobial resistance phenotypes and genotypes among *Salmonella enterica* recovered from pigs on-farm, trucks and after slaughter. *Food Safety Net News*, April, 2004. http://archives.foodsafetynetwork.ca/fsnet/2004/4-2004/fsnet_april_1.htm#story9

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19. Testing Antibiotics for Food Safety. **National Hog Farmer**. September, 2003. Highlighted one of the research projects currently directed by Gebreyes laboratory. http://nationalhogfarmer.com/news/farming_testing_antibiotics_meat/
20. *Salmonella*: Good News and Bad News. In Brief: From the International Conference on Emerging Infections, 2000. ASM News. 66(10): 596.
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23. Antimicrobial Use, Resistance and Impact to the Pork Industry: Monthly update. *American Association of Swine Veterinarians Newsletter*. August 17, 2004. URL: <http://www.aasv.org/news/story.php?id=1163> p. 1-24.
24. Antimicrobial Use, Resistance and Impact to the Pork Industry: Monthly update. *American Association of Swine Veterinarians Newsletter*. August 17, 2004. URL: <http://www.aasv.org/news/story.php?id=1162> p. 1-18.
25. Antimicrobial Use, Resistance and Impact to the Pork Industry: Monthly update. *American Association of Swine Veterinarians Newsletter* June 21, 2004. URL: <http://www.aasv.org/news/story.php?id=1117> p. 2-11.
26. Antimicrobial Use, Resistance and Impact to the Pork Industry: Monthly update. *American Association of Swine Veterinarians Newsletter*. June 4, 2004. URL: <http://www.aasv.org/news/story.php?id=1105> p. 1-7
27. *Salmonella enterica* serovars from pigs on-farm and after slaughter and validity of using bacteriologic data to define herd *Salmonella* status. *American Association of Swine Veterinarians Newsletter*. April 7, 2004. URL: <http://www.aasv.org/news/story.php?id=1034>
28. Gebreyes, W.A. 2001. Antibiotics: Pros and Cons. Let's not Rush in. *International Pigletter* Vol. 21 no. 10.

TEACHING and MENTORSHIP

Didactic Required, Elective and Selective Courses:

- 2010- Present VPM7760 (OSU): Global Opportunities in Veterinary Medicine and Public Health. Course Leader. This course is offered to professional DVM students, graduate MPH-VPH students as well as other graduates students interested in global opportunities within the scope of One Health.
- 2010 Molecular Epidemiology of Infectious diseases. University of Minnesota, School of Public Health. Summer Institute.

- 2007- Present: VPM8700/ PubHL8413 (OSU): Molecular Epidemiology of Infectious Diseases. **Course Leader.** This course is offered to graduate students primarily in the Ph.D. program and also Masters level within the public health and preventive medicine.
- 2008-2012: VPM6693 (OSU): Opportunities in Global Veterinary Medicine elective. **Course leader.** This course is offered to professional (DVM) and graduate (MPH) students to familiarize them with various aspects of travel and veterinary medicine practice.
- 2007- Present: VPM7722 (OSU): Foodborne diseases, food animal production systems, and food safety. **Course leader (till 2012).** This course is a core course for the Masters of Public Health in the Veterinary Public Health track. It is also open to all graduate students in related fields.
- 2004-2009: CBS/VPH760 (NCSU): Molecular Epidemiology of Infectious Diseases of Veterinary and Public Health Importance Course-coordinator (2004-2006) and co-instructor (2007-2009). Course offered to graduate students in population medicine and veterinary public health programs at both Masters and Ph.D. levels and professionals outside of the university.
- 2002-2006: VMF958 (NCSU): Veterinary Public Health: Co-instructor, course offered for third-year veterinary students. Fall, 2000 to present. Four weeks of two hours a week mentoring and leading discussion groups, and one hour lecture.
- 2001-2006: VMF964 (NCSU): Swine and Poultry Medicine. Offered for third-year veterinary students every Spring semester. Co-instructor.
- 2003-2006: FSA520 (NCSU): Pre-harvest Food Safety, offered for graduate students minoring in food safety. Co-instructor.
- 2001-2006: VMF984 (NCSU): Swine Health and Production Elective: co-instructor. Fall 1998 to Present. Two weeks of two hours instruction on food safety and hazard analysis critical control points (HACCP).
- 2001-2006: VMF985 (NCSU): Swine Health and Production selective. Since Fall, 2001
- 2002-2004: VMC991-W (NCSU): Veterinary International program selective. Co-instructor. Two hours of lecture on the practice of veterinary medicine in East Africa and quality assurance of food products.

Mentorship and Advising:

Trainee name Date training	Degree Institution	Mentor role	Project title for graduate degree	Current position
Amornthep Angitrakakul 2014-present	PhD candidate Ohio State	Major Advisor	Molecular epidemiology of MDR <i>Salmonella</i> and microbiome	PhD student (current)

	University			
Laura Binkley 2015- present	PhD candidate Ohio State University	Co-major advisor	Ecology and genotypes of Rabies virus in Ethiopian wild- life	PhD student (current)
Julius Medardus 2011-present	PhD Candidate Sokoine University	Major Advisor	Heavy metal micronutrients and impact on persistence of MDR <i>Salmonella</i>	PhD candidate (current)
Benear Obanda 2012-present	PhD candidate University of Nairobi	Co-major advisor	MRSA among HIV patients and community food handlers in Kenya	PhD candidate (current)
Tadesse Egual 2011-Present	PhD candidate Addis Ababa University	Co-advisor	MDR <i>Salmonella</i> in Food animals and humans in Ethiopia	PhD candidate (current)
Mostafa Ghanem 2014-Present	PhD candidate Ohio State University	Co-major advisor	Development of multi-locus sequence typing (MLST) assay for <i>Mycoplasma iowae</i>	PhD student (current)
Enrique Delgado Suarez 2015- Present	PhD Autonomous University of Mexico (UNAM)	Advisory Committee member	Use of Next Generation Sequencing (NGS) for Virulence and Drug resistance in Beef Production systems	PhD Student/ Asst. professor of Preventive Medicine
Valeria Artuso-Ponte 2011-2014	PhD Ohio State University	Major advisor	QBA and effect on MDR <i>Salmonella</i> shedding and stress	Post-doctoral researcher, Ohio State Univ.
Eyasu Tigabu 2011-2014	PhD Addis Ababa University	Co- Advisor	<i>Staphylococcus aureus</i> in milk production system in Center Highlands of Ethiopia: Bacteriology and molecular characterization	Assistant Professor, Aksum Univ., Ethiopia
Jennifer Mathews 2008-2012	PhD Ohio State University	Major Advisor	Phenotyping and Genotyping of MRSA and predominant nosocomial pathogens at OSU Veterinary Medical Center	Assistant Professor, Florida, USA
Yasser Sanad	PhD	Advisory	Molecular Epidemiological and	Oak Ridge Post-

2007-2011	Ohio State University	Committee member	Pathogenesis Studies on <i>Campylobacter</i> Species in Cattle and Sheep	doctoral Research fellow, Food and Drug Admin., US
Melanie Abley 2006-2011	PhD Ohio State University	Co-Advisor	Tracking, Quantifying, Phenotyping and Genotyping of <i>Campylobacter</i> in Cattle and Pigs across the Farm to Fork Continuum	Senior Microbiologist, USDA FSIS, New York
Daniel Tadesse 2005-2009	PhD Ohio State University	Major Advisor	Molecular Epidemiology of <i>Campylobacter</i> and <i>Yersinia enterocolitica</i> isolates from Pigs raised in conventional and antibiotic-free farms from different geographic regions	Senior Microbiologist, Food and Drug Administration, Laurel, MD
Prapas Patchanee 2005-2008	PhD Ohio State University	Major Advisor	Epidemiology of <i>Salmonella enterica</i> related to Swine Production Systems/ food Safety	Associate Professor and Department Head, Dept. of Large Animal, Chiang Mai University, Thailand
Jennifer Walker 2005-2008	PhD Ohio State University	Advisory Committee member	Towards a Better Understanding of the Epidemiology of Naturally Occurring <i>Staphylococcus aureus</i> Intramammary Infections.	Dairy industry professional scientist, Texas
Luke Heider 2006-2011	PhD Ohio State University	Advisory Committee member	Studies on <i>Salmonella enterica</i> and <i>Escherichia coli</i> with a focus on ceftiofur and the genetic resistance determinant <i>bla</i> CMY	Assistant Professor, Prince Edward Island, Canada.
Paul Dorr 2003-2007	PhD NC State Univ.	Major Advisor	Epidemiological Evaluation of Emerging Pathogens in Large Integrated Swine Production Systems: Interaction, Dissemination, and Antimicrobial Resistance	Senior Scientist, Merial Co., Columbia, Missouri
Otis Miller 2003-2006	PhD NC State University	Co-Advisor	Molecular Epidemiology of Outbreaks of Spring Viremia of Carp Virus in North America, Europe and Asia	USDA APHIS National Aquaculture coordinator

Siddhartha Thakur 2002-2005	PhD NC State University	Major Advisor	Phenotypic and Genotypic characterization of <i>Campylobacter</i> isolated in swine from Conventional and Antimicrobial free farms	Associate Professor and Core Leader, CCMTR; NC State University, Raleigh, NC
Maria Belu 2014-Present	DVM/MPH Dual	Major advisor	Genomic epidemiology of <i>Salmonella enterica</i> from wild and domestic animals in Ethiopia	DVM/ MPH Dual student
Sarah Waibel 2014-Present	DVM/ MPH Univ. of Minnesota	Major Advisor	Rabies prevention and control in Ethiopia	DVM/ MPH Dual student
Tamiru Birhanu 2014-Present	MSc University of Montreal	Co- Advisor	Risk assessment of <i>Salmonella</i> in food systems using molecular approaches	MSc candidate/ Asst. professor, Univ. of Gondar
Kelvin Lim 2013-2015	MSc/MPH Ohio State University	Major advisor	Effect of Flavophospholipol on the acquisition and loss of antimicrobial resistance in multi-drug resistant <i>Salmonella</i> <i>enterica</i> serovar Enteritidis in broiler chickens	Acting Director of Surveillance and Meat Inspection, Agri-Food and Veterinary Authority, Singapore
Heather Yee 2015-2017	MSc/ MPH Dual	Major advisor	Transcriptome analysis of <i>Salmonella</i> between U.S. and Brazilian isolates	Global Innovation Fellow (current)
Suchawan Pornasukrom 2012-2014	MSc/MPH Ohio State University	Major advisor	Comparative phenotypic and genotypic analyses of <i>Salmonella</i> Rissen that originated from Thailand and the United States food animal sources.	PhD student, North Carolina State University
Benjamin Wenner 2011-2013	MSc Ohio State University	Advisory Committee member	Effect of mannan oligosaccharides (Bio-Mos) and outdoor access housing on pig growth, feed efficiency	PhD Student, Ohio State University
Pamela Fry 2009-2011	MSc Ohio State University	Major advisor	Phenotypic and Genotypic Characterization of <i>Clostridium</i> <i>difficile</i> of swine and human origin	Clinical instructor, University of Missouri, Columbia, MO

Narry Tiao 2006-2008	MSc Ohio State University	Major Advisor	Phenotypic and Genotypic Characterization of Staphylococci from Dairy Farms in Northeast Brazil	Veterinary practitioner
Kavya Desai 2013-2015	MPH Ohio State University	Advisory Committee member	Environmental Health and Antimicrobial Resistance of Aerosolized <i>Salmonella</i> Enteritidis	Medical Doctorate (MD) student
Elise Rowe 2013-2015	MPH Ohio State University	Advisory Committee member	Veterinary education twinning at the University of Gondar and the public health impact in Ethiopia	PhD student, George Mason University, Virginia, USA.
Analiese Haftman 2012-2014	MPH Ohio State University	Major Advisor	The Isolation and Characterization of <i>Salmonella</i> from Swine Feces in Kenya	DVM candidate, Ohio State University
Erin Hisrich 2008-2010	MPH Ohio State University	Major Advisor	On farm Risk factors associated with Goat milk quality in Northeastern Brazil	DVM Student, Colorado State University
Courtney Darrington 2010-2012	MPH Ohio State University	Major Advisor	Seroprevalence of <i>Toxoplasma</i> <i>gondii</i> in stray cats (<i>Felis</i> <i>sylvestris catus</i>) in Addis Ababa, Ethiopia.	Unknown
Gabriella Vari 2008-2010	MPH Ohio State University	Preceptor	Microbial spread modeling among dairy cattle: An agent- based approach	DVM student
Hayley Ashbaugh 2008-2010	MPH Ohio State University	Preceptor/ advisor	A Descriptive Survey of Dairy Farmers in Vinh Thinh Commune, Vietnam	DVM student
Jennifer Nolting 2006-2008	MSc Ohio State University	Advisory Committee member	Phenotypic and genotypic variations in low pathogenic H1N1 waterfowl-origin Avian Influenza viruses	Research Associate, Ohio State University
Jennifer Schissler 2007-2009	MSc Ohio State University	Advisory Committee member	Species Identification by PCR from the Skin and Ears of Dogs and Evaluation for Canine Methicillin-resistant <i>Staphylococcus</i> <i>pseudintermedius</i>	Dermatology specialty practitioner, KY

Megan Drobotij 2008-2010	MPH Ohio State University	Major advisor	Prevalence of methicillin-resistant staphylococci (MRS+) in pigs and farm workers	Aerospace medical Squadron, U.S. Military
Sophia Dailey 2009-2011	MPH Ohio State University	Major advisor	Microbiological Quality of Milk Produced in Urban and Peri-Urban Farms in Central Ethiopia and its Public Health Impact	Scientist, Ohio Department of Health, Columbus, OH
Cindy Vanderbilt 2007-2009	MPH Ohio State University	Major advisor	Phenotypic and Genotypic characterization of <i>Pseudomonas aeruginosa</i> from different geographic locations and host species	Staff Analyst, CAS, Columbus, OH
Mital Pandya 2005-2007	MPH Ohio State University	Advisory Committee member	Environmental <i>Salmonella</i> surveillance in Ohio Veterinary Teaching hospital	PhD candidate at the University of Vermont
Allison Pelger 2005-2007	MPH Ohio State University	Advisory Committee member	Prevalence and antimicrobial resistance of enterococci The Ohio State University Veterinary Teaching Hospital and occurrence of vancomycin resistance determinants	Unknown
Lauren Haufmann	MPH Ohio State University	Advisory Committee member		Unknown
Post-Doctoral Researchers				
Valeria Artuso-Ponte	2015-present		Plant Alkaloid QBA and impact on microbiome and MDR <i>Salmonella</i> .	Post-doctoral researcher, Ohio State University
Bayleyegn Molla	2007-2013		Impact of biocides and other co-selectives on emergence and persistence of MDR <i>Salmonella</i> .	Regulatory Microbiologist, USDA FSIS
Govindan Rajamohan	2007-2009		<i>Acinetobacter baumannii</i> : Biocides, biofilm and the role of multi-drug efflux systems	Senior Scientist Institute of Molecular Medicine and Technology (IMMTECH), India

Vijaya Srivatsan	2007-2009	Cloning and functional analysis of the RND and MATE Multi-drug efflux systems in <i>A. baumannii</i> .	Academic staff, India
Xiang Kong	2004-2006	Novel Hydrophobicity matrix/ active counter selective pressure against multi-drug resistant <i>Salmonella</i>	Research Scientist, North Carolina State University
Siddhartha Thakur	2005-2006	Development of microarray for simultaneous detection of antimicrobial resistant, virulence and species identification markers	Associate Professor, NC State University, Raleigh, NC
Visiting Scholars, Institutes and Countries			
Sunpetch Aningtrakakul (Khon Kaen University, Thailand- 2005-2006); Lauro Santos (Joao Pessoa, Brazil- 2008 and 2009); Celso Bruno Oliveira (Federal University of Paraiba, Brazil, 2009); Neon Boonprasert (CPF, Thailand, 2009); Give Wechisiri (Chulalongkorn University, Thailand, 2011-2012); Daniel Farias (Federal Univ. Paraiba, Brazil, 2010); Joyce Mwituria (Kenya Medical Research Institute, 2011); Guilherme Santana (Federal Univ. Paraiba, Brazil, 2012); Enrique Delgado-Suarez (Autonomous University of Mexico, 2012); Nina Rusenova (Trakia University, Bulgaria, 2012); Lusi Farias (Federal Univ. Paraiba, Brazil, 2012); Eyasu Tigabu (Addis Ababa University, Ethiopia, 2013); Desalegne Mengesha Degefaw (University of Gondar, Ethiopia, 2013-2014); Janet Agnes Munyalo (Kenya Medical Research Institute, 2014-2015); Assefa Deressa (Ethiopian Public Health Institute, 2015); Solomon Assefa Woreta (University of Gondar, Ethiopia, 2015-2016)			
Professional Veterinary Students Mentored			
Chad Lakey (2002-2004), Amber Jefferson (2003), Carrie Odom (2004), Rebecca Robbins (2005-2008), Stephanie Desmarais (2004-2006), Hope Valentine (2004-2008), Eva Jablonski (2004), Pamela Fry (2006-2011), Johanna Rosenfield (2007), Narry Tiao (2006-2008), Bethany Gibson (2008), Mathew Nicol (2010), Megan Ryan (2010); Tricia Gearhart (2011); Noelle Dianna (2012); Christine Widmann (2012, 2013); Allyson Sterman (2013); Kelsey Gerbig (2014); Mallory Kanwal (2014); Maria Belu (2014); Sharon Kim (2015); Sarah Waibel (2015);			
Undergraduate Students Mentored			
Allison Price (NCSU, 2002-2004), Alyssa Phyras (NCSU, 2003), Marylyn Breeden (NCSU, 2003-2005), Rhonda Davis (NCSU, 2004), Cedarose Siemon (NCSU, 2003-2006), Charles Martin (OSU, 2007-2010), Surhabi Pancholi (OSU, 2008), Ayden (OSU, 2008-2010), Kristin Monroe (OSU, 2008-2010), Allyson Sterman (OSU, 2008-2011), Mikayla Marshall (2013-2015), Shanice Reynolds (2015).			

Other teaching/training activities:

- 2015 Molecular epidemiology of infectious diseases. This theoretical course was offered in Chiang Mai, Thailand as a pre-congress course in conjunction with the 3rd ICOPHAI congress. The course was attended by 40 trainees that originated from various developing regions including Asia, Africa and Latin America.
- 2013 Molecular epidemiology of infectious diseases. This theoretical course was offered in Porto de Galinhas, Brazil as a pre-congress course in conjunction with the 2nd ICOPHAI congress. It attracted 55 students mainly from Latin America and sub-Saharan African countries.
- 2012-Present Molecular epidemiology of infectious diseases. This course is offered annually for east Africa professionals and graduate students as a component of the OSU East Africa One Health Summer institute. The course is primarily hosted in Ethiopia at one of the academic institutes (Addis Ababa University or University of Gondar) or at the International livestock Research Institute (campus). The course attracted 72 trainees from 7 academic and research institutes in the 2015 Summer institute.
- 2012 Molecular Medicine and Genomics in Africa. Co-instructor. Theoretical course sponsored by the International Centre for Genetic Engineering and Biotechnology (ICGEB), Mombasa, Kenya. February 19-22, 2012.
- 2011 Molecular epidemiology of infectious diseases. Course offered at the federal university of Paraiba (UFPB) in Brazil. March 23-27, 2011.
- 2010-Present Molecular Genetics of Infectious Diseases (TRID-802). Annual Course offered at Addis Ababa University for graduate program in Tropical and Infectious Diseases (TRID). **Role:** Guest course coordinator and lecturer.
- 2010-Present Bioinformatics and its applications in infectious diseases (TRID-812). Annual Course offered at Addis Ababa University for graduate program in Tropical and Infectious Diseases (TRID). **Role:** Guest course coordinator and lecturer.
- 2010 Molecular Medicine and Genomics in Africa. Theoretical Course. Zanzibar, Tanzania. January 28-31, 2010
- 2009 Federal University of Paraiba. Molecular epidemiology of Infectious diseases, Joao Pessoa, Brazil; March 23-26, 2009
- 2008 University of Khartoum, Sudan- Molecular Medicine and Genomics in Africa, Theoretical course. January 19-23, 2008.
- 2007 University of Minnesota- guest lecture June 6, 2007. Topics: 1. antimicrobial resistance in *Salmonella* (1 hr.), Genotyping and Molecular Epidemiology (1 hr.).
- 2007 OSU, Veterinary Preventive Medicine Graduate Faculty with status “P”
- 2008 OSU, College of Public Health, graduate faculty with status “M”

- 2005-Present Full Graduate Faculty. NCSU/ CVM/ CBS.
- 2004- National Animal Health Research Center (NAHRC), Sebeta, Ethiopia. Conducted two days workshop on Microbial Isolation, identification and characterization (Antimicrobial susceptibility testing etc.) with particular reference to *Campylobacter* and other Zoonotic diseases.
- 2003- 2004 U.S. Army Veterinary Corps. Fort Sam Houston, San Antonio, Texas. Served as instructor in the annual Food Safety and Security courses. Specific focus include *emerging technologies in diagnostics, modern swine production systems and food safety*.
- 2002- 2004 U.S. Army Veterinary medical Assistance Team (VMAT) training on Multi-hazard, wetlab. Training on emergency veterinary management.
- 2001- 2005 Associate graduate faculty, Comparative Biomedical Sciences, CVM.
- 2002- 2006 Food Safety Graduate faculty, NCSU.
- 2004- 2006 Biotechnology Graduate faculty member, NCSU.
- 2004- 2006 Microbiology, Associate Faculty member, NCSU.

PROFESSIONAL SOCIETY MEMBERSHIPS

- 2009- 2015 American Association for Advancement of Science (AAAS)
- 2004-Present: Sigma Iota Rho, Honorary Society for International Studies
- 2004- Present International Association for Food Protection (IAFP)
- 2003- Present Phi-Zeta, Honor Society of Veterinary Medicine
- 2002- Present American College of Veterinary Preventive Medicine (ACVPM).
- 2001-Present American Association of Swine Veterinarians (AASV)
- 2001-Present Sigma-Xi Honorary Research Society (Full member).
- 2000-2008 Society of Tropical Veterinary Medicine (STVM).
- 1999-Present American Society of Microbiology (ASM).

PUBLICATIONS (NON-REFEREED- PRIOR TO 2010)

1. **W. A. Gebreyes**, Molla, Z. B., M. J. Abley, V. Artuso-Ponte, W. Farmer, C. Martin, W. E. M. Morrow, P. Rajala-Schultz, (2010): Antimicrobial resistance and association with biocide in *Salmonella enterica* in conventional swine production environment. *2nd ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens in Animals, Humans and the Environment*. June 8 - 11, 2010, Toronto, Canada.

2. **W.A. Gebreyes**, Molla, Z. B., M. Abley, S. Thakur, C. Jackson, P. Fedorka-Cray, (2010): Methicillin resistant staphylococci (MRS+) in pigs and farm workers. 2nd ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens in Animals, Humans and the Environment. June 8 - 11, 2010, Toronto, Canada.
3. Mathews, J., Tiao, N. Patchanee, P., and **Gebreyes, W.A.** 2010. Passive Surveillance and Genotyping of Methicillin Resistant Staphylococci at OSU Veterinary Medical Center. 2nd ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens in Animals, Humans and the Environment: Toronto, Canada, June 8th -11th, 2010.
4. Molla Z. B., M. J. Abley, V.P. Artuso, W. Farmer, C. Martin, J. Mathews, W. E. M. Morrow, A. Serman, P. Rajala-Schultz, **W. A. Gebreyes** (2010): Phenotypic Characterization and genetic relatedness among Salmonella enterica isolates recovered from commercially produced swine feed and swine on farms. Advances in Veterinary Medicine Day (April 8, 2010), College of Veterinary Medicine, The Ohio State University, Columbus, Ohio, USA.
5. Mathews, J., Tiao, N. Patchanee, P., and **Gebreyes, W.A.** 2010. Passive Surveillance and Genotyping of Methicillin Resistant Staphylococci at OSU Veterinary Medical Center. Advances in Veterinary Medicine Day: Columbus, OH, April 2010.
6. Zewde M. B., M. J. Abley, V. P. Artuso, W. Farmer, C. Martin, W. E. M. Morrow, P. Rajala-Schultz, **W. A. Gebreyes** (2009): Association between biocide use and antimicrobial resistance of Salmonella in swine production environment. *Proceedings of the 8th International Symposium on Epidemiology and Control of Foodborne Patogens in Pork*, Safe pork 2009 – September 30th to October 2nd, 2009, Québec city, Québec, Canada, pp173-176.
7. Thakur, S, Zewde, M. B., **Gebreyes, W.** (2009): Phenotypic heterogeneity of Campylobacter coli isolated from conventional and antimicrobial free swine at farm and slaughter. *Proceedings of the 8th International Symposium on Epidemiology and Control of Foodborne Pathogens in Pork*, Safe pork 2009 – September 30th to October 2nd, 2009, Québec city, Québec, Canada, pp177-180.
8. Drobotij, M., B.M. Zewde, M.J. Abley, C. Jackson and **W.A. Gebreyes** (2009): Prevalence of methicillin resistant staphylococci (MRS+) in pigs and farm workers. *Proceedings of the 8th International Symposium on Epidemiology and Control of Foodborne Pathogens in Pork*, Safe pork 2009 – September 30th to October 2nd, 2009, Québec city, Québec, Canada, pp110-113.
9. Zewde, M. B., Abley, M., Farmer, W., Morrow, M.E.W and **Gebreyes, W.A.** (2009): Biocide Use and Association with Antimicrobial Resistance of Salmonella Recovered in Swine Barn Floors. 96th Annual Meeting of the International Association of Food Protection, July 132-15, Grapevine, Texas, USA.
10. **Gebreyes, W. A.**, Drobotij, M., Zewde, M. B. and Abley, M. (2009): Prevalence of Methicillin-resistant *Staphylococcus aureus* (MRSA) in Pigs and Farm Workers. 96th Annual Meeting of the International Association of Food Protection, July 132-15, Grapevine, Texas, USA.
11. Mathews, J., Tiao, N. Patchanee, P., and **Gebreyes, W.A.** 2009. Phenotypic and Genotypic Characterization of Clinical Staphylococci Isolates Collected by Passive Surveillance from OSU-VTH. Advances in Veterinary Medicine Day: Columbus, OH, April 2009.
12. J. Mathews, N. Tiao, P. Patchanee, J. Daniels, A. Hillier, C. Kohn and **W.A. Gebreyes.** 2009. Phenotypic and Genotypic Characterization of Staphylococci Isolates Collected from OSU Veterinary Teaching Hospital. 60th American College of Veterinary Pathologists Conference: Monterey, CA, December 5-9th, 2009.

13. Zewde M. B., M. J. Abley, W. Farmer, W. E. M. Morrow, Paivi Rajala-Schultz, **W. A. Gebreyes** (2009): Disinfectant use and association with antimicrobial resistance of *Salmonella* recovered in swine barn floors. Advances in Veterinary Medicine Day (April 9, 2009), College of Veterinary Medicine, The Ohio State University, Columbus, Ohio, USA.
14. Drobotij, M., Zewde, M. B., Abley, J. M., Jackson, R. C., **Gebreyes, W.A.** (2009): Prevalence of Methicillin Resistant *Staphylococcus aureus* (MRSA) in Pigs and Farm Workers. Advances in Veterinary Medicine Day (April 9, 2009), College of Veterinary Medicine, The Ohio State University, Columbus, Ohio, USA.
15. P. Fry, M. Sullivan, M. Abley, S. Thakur, M. Marcon, **W. Gebreyes**. 2009. Characterization of Hypervirulent Strains of *Clostridium difficile* of Porcine and Human Origin. College of Veterinary Medicine Annual Research Day. Columbus, OH April 9, 2009.
16. P. Fry, M. Sullivan, M. Abley, S. Thakur, M. Marcon, **W. Gebreyes**. 2009. Hypervirulent Strains of *Clostridium difficile* of Porcine and Human Origin and Risk to Pork Safety. Safe Pork: 8th International Symposium of the Epidemiology and Control of Foodborne pathogens in Pork. Quebec, Canada. September 30-October 2, 2009. **W. A. Gebreyes**, Bayleyegn Molla Zewde, Melanie J. Abley, Brandon House, W.E. Morgan Morrow, Rebecca Robbins. 2008. Distribution of *Salmonella* in swine and swine production environment before and after disinfection of barns. *Int'l Pig Veterinarian Society Congress (IPVS)*, Durban, South Africa [Oral presentation]. June 22-26, 2008
17. **W. A. Gebreyes**, Prapas Patchanee., Nancy White., Daniel E. Line, Damian Shea. 2008. Identification of Sources of *Salmonella* in Watersheds associated with Swine Production and Characterization of Multiple Antimicrobial Resistant Strains. *Int'l Pig Veterinarian Society (IPVS) Congress*, Durban, South Africa [Oral presentation]. June 22-26, 2008
18. **W. A. Gebreyes**, D. A. Tadesse, M. Abley, P. Bahnson, J. Funk, M. Morrow. 2008. Molecular epidemiology and virulence genes characterization in *Yersinia enterocolitica* of Porcine Origin. *Int'l Pig Veterinarian Society (IPVS) Congress*, Durban, South Africa [Oral presentation]. June 22-26, 2008
19. Gibson, B., Zewde, M.B., M. J. Abley, N. Tiao, **W. Gebreyes** (2008): The Prevalence of *mecA* gene in swine fecal samples. Summer Student Research Day, Dept. of Veterinary Preventive Medicine, College of Veterinary Medicine, Ohio State University, Columbus, Ohio.
20. **Gebreyes WA***, V. Srinivasan, G. Rajamohan, P. Pancholi, K. Stevenson, M. Marcon. 2008. Novel Secondary Active Transporters Conferring Antimicrobial Resistance in *Acinetobacter baumannii* With Broad Substrate Specificity. 48th *Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)*. Washington, D.C. October 24-28, 2008.
21. P. Fry, M. Abley, S. Kaydos-Daniels, P. Cray, J. Frye, **Gebreyes WA***. 2008. Characterization of Antimicrobial Resistance Determinants among *Salmonella*, *Campylobacter*, *Escherichia*, and *Enterococcus* using PCR and Microarray Approaches. 48th *Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)*. Washington, D.C. October 24-28, 2008.
22. **Gebreyes WA***, N. Tiao, C. Bruno, L. Santos Filho. 2008. Occurrence of methicillin resistant *Staphylococcus aureus* (MRSA) in Milk in Northeastern Brazil. 48th *Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)*. Washington, D.C. [Oral Presentation]. October 24-28, 2008.
23. Pamela Fry, Melanie Abley, Neely Kaydos-Daniels, Paula Cray, **Gebreyes WA***. 2008. Comparison of antimicrobial resistance determinants among *Salmonella*, *Campylobacter*, *E.*

- coli*, and *Enterococcus* isolated from Swine. *Int'l Association for Food Protection Congress*, Columbus, OH. August 2-5, 2008.
24. Prapas Patchanee, Daniel Tadesse and **Gebreyes WA***. 2008. Phenotypic and genotypic characterization of multi-drug resistant *Salmonella* serotype Heidelberg isolated from humans and animals. *Int'l Association for Food Protection Congress*, Columbus, OH. August 2-5, 2008.
 25. Daniel A. Tadesse, Peter B. Bahnson, Julie A. Funk, W.E. Morgan Morrow and **Gebreyes WA***. 2008. Molecular epidemiology and characterization of virulence gene in *Y. enterocolitica* isolated from swine. *Int'l Association for Food Protection Congress*, Columbus, OH [Oral presentation]. August 2-5, 2008.
 26. N. Tiao, L. Filho, C. Bruno and **Gebreyes WA***. 2008. Phenotypic and Genotypic analysis of *Staphylococcus spp.* from raw bovine milk in Northeastern Brazil. *Int'l Association for Food Protection Congress*, Columbus, OH. August 2-5, 2008.
 27. Bayleyegn Zewde, W.E. Morgan Morrow, Rebecca Robbins, **Gebreyes WA***. 2008. Comparison of swiffer® wipes and conventional drag swab methods in the recovery of *Salmonella* from swine production environment. *Int'l Association for Food Protection Congress*, Columbus, OH. August 2-5, 2008.
 28. **Gebreyes WA**, Patchanee P, White N, Line D and Shea D. Identification of sources of *Salmonella* in watersheds and characterization of multiple antimicrobial resistant strains. National Water Conference (NWC), February 3-6, 2008, Sparks, NV.
 29. P.J. Rajala-Schultz, A.H. Torres, F.J. DeGraves, **W. A. Gebreyes**. 2007. Antimicrobial resistance and strain persistence in coagulase-negative staphylococci over the dry period.
 30. **W. A. Gebreyes** and P. M. Dorr. 2007. Truck wash practices and *Salmonella* dispersion in commercial swine production systems. Swine Diseases Conference, Ames, IA, November 7-9, 2007.
 31. **W.A. Gebreyes**, K. B. Stevenson, P. Pancholi, M.Marcon. 2007. Antimicrobial Resistance in *Pseudomonas aeruginosa* and *Acinetobacter spp.* 47th *Interscience conference on Antimicrobial Agents and Chemotherapy (ICAAC)*, Chicago, Illinois.
 32. N. Tiao, A.Hoet, A. Hillier, **W.A. Gebreyes**. 2007. SCC-mec typing of staphylococci isolated from veterinary teaching hospital. 47th *Interscience conference on Antimicrobial Agents and Chemotherapy (ICAAC)*, Chicago, Illinois.
 33. Fry P, N. Kaydos-Daniels, P. F. Cray, **W.A. Gebreyes**. 2007. Antimicrobial Resistance of *Salmonella*, *Campylobacter*, *E.coli*, and *Enterococcus* isolated from Swine. Antimicrobial Resistance: Interface between human and animal health conference, Columbus, Ohio.
 34. Pelger A, S. Bateman, A. Hillier, A. Hoet, **W.A. Gebreyes**. 2007. Monitoring predominant bacterial pathogens in OSU, Veterinary Teaching Hospital and occurrence of antimicrobial resistance. Antimicrobial Resistance: Interface between human and animal health conference, Columbus, Ohio.
 35. D.A. Tadesse, P. Bahnson, J. Funk, W.E. M Morrow, S. Thakur and **W.A. Gebreyes**. 2007. Prevalence and Antimicrobial Susceptibility of *Campylobacter* in Various Geographic Location and Swine Production Systems. Antimicrobial Resistance: Interface between human and animal health conference, Columbus, Ohio.
 36. Robbins, RC and **Gebreyes, WA**. 2006. DEVELOPMENT OF ASSAY DETECTING *SALMONELLA* TYPHIMURIUM FROM FECES USING QUANTITATIVE PCR.

- Proceedings of the International Pig Veterinary Society Congress*. July 16-19, Copenhagen, Denmark, Volume 2: 359.
37. **Gebreyes, W A**, Bahnson, PB, Funk, JA, Morrow, WEM. 2006. ANTIMICROBIAL RESISTANCE OF THREE MAJOR FOODBORNE PATHOGENS AMONG PIGS REARED IN CONVENTIONAL AND ANTIMICROBIAL-FREE ENVIRONMENT IN THREE GEOGRAPHIC LOCATIONS IN THE UNITED STATES. *Proceedings of the International Pig Veterinary Society Congress*. July 16-19, Copenhagen, Denmark, Volume 1: 195-6.
 38. Robbins, RC and **Gebreyes, WA**. 2006. ANTIMICROBIAL ACTIVITY OF COPPER SULFATE, BORON, AND SANGUINARINE AGAINST MULTI-DRUG RESISTANT SALMONELLA ISOLATED FROM SWINE. *Proceedings of the International Pig Veterinary Society Congress*. Volume 1: 194.
 39. **W.A. Gebreyes**, P. Bahnson, J. Funk, J. Mckean. 2006. Serological Analysis of *Toxoplasma gondii*, and *Trichinella spiralis* among niche market antimicrobial-free and conventionally reared pigs. CRWAD 2006, Chicago, Illinois.
 40. R.C. Robbins, **W.A. Gebreyes**, W.E.M. Morrow, J.W. Spears. 2006. Effect of sanguinarine on growth performance and *Salmonella* shedding in nursery pigs. CRWAD 2006, Chicago, Illinois.
 41. D. Coombs, **Gebreyes, W.A.**, Thakur S. 2006. Trend in Antimicrobial Resistance of *Salmonella* from Swine and Humans in North Carolina. CRWAD 2006, Chicago, Illinois.
 42. Dorr, P. and **Gebreyes, W.A.** 2005. The Role of Truck-wash Practices in Dissemination of *Salmonella* and *Campylobacter* in Commercial Swine Production. Safe Pork: 6th International Symposium on Epidemiology and Control of Food-borne pathogens in Pork.Sept.6-9, Rohnert Park, California, USA.
 43. Robbins, R., Lowman, H. and **Gebreyes, W. A**. 2005. Developing Real-time PCR Assay for Detection of Multi-drug Resistant *Salmonella* strains in Pigs. Safe Pork: 6th International Symposium on Epidemiology and Control of Food-borne pathogens in Pork.Sept.6-9, Rohnert Park, California, USA.
 44. Dorr, P., Tadesse, D. and **Gebreyes, W.A.** 2005. Evaluation of Phenotypic and Genotypic Approaches as predictors of *Salmonella* strains of Clinical and Non-clinical Origin. Safe Pork: 6th International Symposium on Epidemiology and Control of Food-borne pathogens in Pork.Sept.6-9, Rohnert Park, California, USA.
 45. Davies, P., Funk, J. and **Gebreyes, W.A.** 2005. Differential translocation of *Salmonella* serovars to mesenteric lymph nodes of pigs. Safe Pork: 6th International Symposium on Epidemiology and Control of Food-borne pathogens in Pork.Sept.6-9, Rohnert Park, California, USA.
 46. Thakur, S. and **Gebreyes, W.A.** 2005. Prevalence, antimicrobial resistance and genotypic diversity of *Campylobacter coli* isolated from antimicrobial-free swine production systems. Safe Pork: 6th International Symposium on Epidemiology and Control of Food-borne pathogens in Pork.Sept.6-9, Rohnert Park, California, USA.
 47. Thakur, S. and **Gebreyes, W.A.** 2005. Comparative genotyping of *Campylobacter coli* using Multi Locus Sequence Typing and Pulsed Field Gel Electrophoresis. Safe Pork: 6th International Symposium on Epidemiology and Control of Food-borne pathogens in Pork.Sept.6-9, Rohnert Park, California, USA.
 48. **Gebreyes, W.A.**, Thakur, S. and Morrow, M.W.E. 2005. Prevalence and antimicrobial resistance of *Salmonella* isolated from conventional and antimicrobial-free swine herds in North

- Carolina. Safe Pork: 6th International Symposium on Epidemiology and Control of Food-borne pathogens in Pork. Sept.6-9, Rohnert Park, California, USA.
49. **Gebreyes, W.A.**, Morrow, M.W.E., Bahnson, P.B., Funk, J.A. and **Thakur, S.** (2005). *Campylobacter* prevalence and antimicrobial resistance in swine reared in antimicrobial –free and conventional production systems. Safe Pork: 6th International Symposium on the Epidemiology and Control of Food-borne pathogens in Pork. Sept.6-9, Rohnert Park, California, USA.
 50. **Gebreyes, W.A.** and Thakur S. Multi-Drug Resistant (MDR) *Salmonella* Serovar Muenchen from Pigs and Humans Phenotypically and Genotypically Similar to Other MDR Serovars. 44th Interscience Conference on Antimicrobial Agents and Chemotherapy. October 30 to November 2, 2004. Washington, DC (selected for oral presentation and press room briefing).
 51. **Gebreyes, W.A.** and Thakur S. An Emerging Multi-drug Resistant *Salmonella* Serovar Muenchen Strain. International Conference on Emerging Infectious Diseases (ICEID), Atlanta, GA, February 28 to March 4, 2004 (Oral Presentation).
 52. S. Thakur and **W.A. Gebreyes**. Comparison of Antimicrobial Resistance Profile and Diversity of *Campylobacter* Species Isolated from Pigs Raised in Antimicrobial Free Farms and Conventional Farms in North Carolina. International Conference on Emerging Infectious Diseases (ICEID), Atlanta, GA, February 28 to March 4, 2004.
 53. **Gebreyes, W.A.**, Bahnson, P.B., Funk, J.A., Morrow, M.W.E. and Thakur, S. 2004. Prevalence and Antimicrobial resistance in *Campylobacter* from Antimicrobial free and Conventional Swine herds Pork Quality and Safety Summit Proceedings, Iowa, 2004
 54. **Gebreyes, W.A.**, Thakur S., and Lakey C. Molecular Epidemiology of *Salmonella* and Subtyping using Phenotypic and Genotypic Approaches. *Proceedings of the 5th International Symposium on Epidemiology and Control of Foodborne Pathogens in pork (SAFEPOK)*. Crete, Greece, October 1-4, 2003. p. 47-49.
 55. **Gebreyes, W.A.**, Thakur S., Davis R and Funk J. Three-Year trend in Antimicrobial Resistance of Salmonella: Swine and Humans. *Proceedings of the 5th International Symposium on Epidemiology and Control of Foodborne Pathogens in pork (SAFEPOK)*. Crete, Greece, October 1-4, 2003. p. 218-220.
 56. Funk, J.A., Bahnson P., **Gebreyes WA.**, Morrow WE. *Yersinia* Prevalence in Antibiotic Free and Conventionally reared Swine. *Proceedings of the 5th International Symposium on Epidemiology and Control of Foodborne Pathogens in pork (SAFEPOK)*. Crete, Greece, October 1-4, 2003. p. 74-76.
 57. **Gebreyes, W.A.**, Thakur S., Bahnson, P., Funk J., Morrow M. 2003. Prevalence and Antimicrobial Resistance of *Campylobacter* spp. Among Antimicrobial-free and Conventionally reared market Pigs. *Proceedings of the 5th International Symposium on Epidemiology and Control of Foodborne Pathogens in pork (SAFEPOK)*. Crete, Greece, October 1-4, 2003. p. 49-51.
 58. Bowman A., Mack A., **Gebreyes WA** and Funk JA. Comparison of Enrichment Schemes for the Isolation of *Yersinia enterocolitica*. *Proceedings of the 5th International Symposium on Epidemiology and Control of Foodborne Pathogens in pork (SAFEPOK)*. Crete, Greece, October 1-4, 2003. p. 265-267.
 59. Thakur S., Lakey C and **Gebreyes WA**. Antimicrobial resistance profile and genetic diversity of *Salmonella enterica* serotypes Typhimurium and Muenchen. *Proceedings of the 5th*

- International Symposium on Epidemiology and Control of Foodborne Pathogens in pork (SAFEPOK)*. Crete, Greece, October 1-4, 2003. p. 304-306.
60. **Gebreyes, W.A.**, Thakur S., Bahnson, P., Funk J., Morrow M. 2003. Antimicrobial Resistance of *Campylobacter* spp. Among Antimicrobial-free and Conventionally reared market Pigs. *Proceedings of the 12th International Conference of Campylobacter, Helicobacter and Related Organisms (CHRO)*. Aarhus, Denmark. September 6-10, 2003. Suppl. 1-3.
 61. S. Thakur and **W.A. Gebreyes**. Molecular Characterization of Integrons and Antimicrobial Resistance Genes in *Salmonella enterica* serovar Muenchen from Swine and Humans. 84th Conference of Research Workers in Animal Diseases (CRWAD). Chicago, IL, November 9-11, 2003. Oral Presentation # 68
 62. J.A. Funk, P.B. Bahnson, **W.A. Gebreyes**, W.E.M. Morrow. *Yersinia enterocolitica* Prevalence in Antibiotic Free and Conventionally Reared Swine. 84th Conference of Research Workers in Animal Diseases (CRWAD). Chicago, IL, November 9-11, 2003. Oral presentation # 73.
 63. **Gebreyes, W.A.**, Thakur S., Bahnson, P., Funk J., Morrow M. Antimicrobial Resistance and Diversity of *Campylobacter* in Antimicrobial Free and Conventionally Reared Market Swine. 84th Conference of Research Workers in Animal Diseases (CRWAD). Chicago, IL, November 9-11, 2003. Oral presentation # 44.
 64. **Gebreyes, W.A.**, Thakur, S., Altier, C. and Wolf, L. Three Years Trend in Antimicrobial Resistance and Genotypes among Predominant *Salmonella* Serovars in Swine and Humans in North Carolina. [National Foundation for Infectious Diseases \(NFID\)](#) June 23-25, 2003. Bethesda, MD (Oral presentation).
 65. **Gebreyes, WA**. Salmonellosis, Antimicrobial Resistance and Genetic Characterization. *Proceedings of the Pork Quality and Safety Summit*. June 18-19, 2002. Des Moines, IA. p. 189-198.
 66. **Gebreyes WA**, Thakur S and Wolf L. Phenotypic and Genotypic Comparison of *Salmonella* strains collected from Humans and Swine in North Carolina. *Proceedings of the Seventeenth Congress of the International Pig Veterinary Society*. Ames, Iowa. June 2 to 5 2002. p. 320.
 67. **Gebreyes, WA** and Thakur, S. Comparison of Multi-drug resistant *Salmonella enterica* serovar Typhimurium strains isolated from swine and humans: characterization of common but non-pathogenic multi-drug resistant *Salmonella* from swine. *Proceedings of the annual Conference of National Antimicrobial Resistance Monitoring System (NARMS)*, Hilton Head, SC. November 2002.
 68. **Gebreyes, WA** and Thakur, S. Comparison of Multi-drug resistant *Salmonella enterica* serovar Typhimurium strains isolated from swine and humans: characterization of common but non-pathogenic multi-drug resistant *Salmonella* from swine. *Proceedings of the 42nd annual Interscience Conference on Antimicrobial Agents and Chemotherapy*. Page 106. San Diego, CA. September 27 to 30, 2002.
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