

CURRICULUM VITAE**WONDWOSSEN ABEBE GEBREYES
DVM, PhD., Diplomate ACVPM****BUSINESS ADDRESS**

Department of Veterinary Preventive Medicine
College of Veterinary Medicine, The Ohio State University
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EDUCATION

- 2002 Diplomat, American College of Veterinary Preventive Medicine (ACVPM).
- 2001 Ph.D. Comparative Biomedical Sciences (CBS) Program. Department of Population Health and Pathobiology, College of Veterinary Medicine, North Carolina State University, Raleigh, NC.
- 1990 Doctor of Veterinary Medicine (D.V.M.), College of Veterinary Medicine, Addis Ababa University, Debrezeit, Ethiopia

ACADEMIC AND RELATED PROFESSIONAL EXPERIENCE

- July 2006- Present Associate Professor, Molecular epidemiology, Department of Veterinary Preventive Medicine, College of Veterinary Medicine, The Ohio State University
- Dec. 2008- Present Associate Professor, Dept. of Epidemiology, College of Public Health, The Ohio State University
- Nov. 2006- present Adjunct Associate Professor, Department of Population Health and Pathobiology. College of Veterinary Medicine, North Carolina State University.
- Oct. 2001- July 2006 Assistant Professor of Epidemiology. Department of Population Health and Pathobiology. College of Veterinary Medicine, North Carolina State University.
- Aug 2001-Oct 2001 Clinical Instructor. Department of Farm Animal Health and Resources Management. College of Veterinary Medicine, 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, North Carolina State University.
- 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

- 2007 Fellowship, President's Provost Leadership Institute (PPLI), Columbus, OH.
- 2006 Tenure with promotion to Associate Professor, North Carolina State University
- 2004 Sigma Iota Rho Honorary Society for International Studies.
- 2003 Phi-Zeta. Honorary Veterinary Society
- 2002 Veterinary Medical Assistance Team (VMAT). Outstanding contribution to three strand national training exercise.
- 2000 Sigma-Xi Honorary Research Society.

TEACHING AND MENTORSHIP

Didactic/ elective and selective course offerings

- 2008 VPM693 (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: VPM722 (OSU): Foodborne diseases, food animal production systems, and food safety. Course leader. 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.
- 2007- Present: VPM700 (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 areas.

- 2004-present: CBS/VPH760 (NCSU): Molecular Epidemiology of Infectious Diseases of Veterinary and Public Health Importance Course-coordinator (2004-2006) and co-instructor (2007-present). 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): Preharvest 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

Postdoctoral/ Research Associates:

Past: Siddhartha Thakur (BVSc., Ph.D., 2005-2007), Xiang Kong (M.D., 2004-2006).

Current: Vijaya Bharati (Ph.D, 2007-present), Bayleyegn Molla Zewde (DVM, MVSc, Ph.D, 2007-present), Rajamohan Govindan (Ph.D., 2007-present)

Graduate, Major Advisor:

Doctor of Philosophy (Ph.D.) candidates: Jennifer Mathews (2008-present)

Masters of Science (MSc) candidates: Pamela Fry

Masters of Public Health (MPH) candidates: Allison Price (2007-2008), Megan Drobotij (2008), Narry Tiao (2006-2008), Cindy Vanderbilt (2008- Present)

Graduate, Advisory Committee:

J. Walker (Ph.D., 2006-present), L. Heider (Ph.D., 2006-present), M. Abley (Ph.D., 2006-present), J. Nolting (MSc., 2007-2008).

Former graduates and current positions:

Major advisor for, (degree, year of graduation) and current position:

Siddhartha Thakur (Ph.D, 2005): Assistant Professor, NC State University

Paul Dorr (Ph.D, 2007): Senior Research Scientist, Merial Ltd.

Otis Miller (Ph.D., 2007): Regional Veterinary Epidemiologist, U.S. Dept. of Agriculture, APHIS, Raleigh, NC.

Narry Tiao (MSc., MPH, 2008): Center for Disease Control and Prevention (CDC), Emerging Infectious Diseases (EID) fellow, Atlanta, GA.

Prapas Patchanee (Ph.D., 2008): Assistant Professor, Cheng Mai University, Thailand

Daniel Alemayehu Tadesse (Ph.D., 2009). ORAU Fellow, Food and Drug Administration (FDA), Laurel, MD

Advisory committee member (Degree, year of graduation):

Kelly Stevens (Ph.D., 2004),

R. Molina (Ph.D., 2004),

D. Fortune (Ph.D., 2005),

Y. Huang (Ph.D., 2006)

Mentorship:

Visiting professors: Sunpetch Aningtrakakul (Chang Mai, Thailand- 2005-2006), Lauro Santos (Joao Pessoa, Brazil- 2008 and 2009)

Professional: Veterinary students Chad Lakey (2002-2004), Amber Jefferson (2003), Carrie Odom (2004), Rebecca Robbins (2005-present), Stephanie Desmarais (2004-2006), Hope Valentine (2004-present), Eva Jablonski (2004), Pamela Fry (2006-present), Johanna Rosenfield (2007), Narry Tiao (2006-2008), Bethany Gibson (2008).

Undergraduate: Allison Price (NCSU, 2002-2004), Alyssa Phyers (NCSU, 2003), Marylyn Breeden (NCSU, 2003-2005), Rhonda Davis (NCSU, 2004), Cedarose Siemon (NCSU, 2003-2006), Charlie Martin (OSU, 2007-present), Surhabi Pancholi (2008).

Other teaching/ training activities:

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 MEMBERSHIP

- 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-present: Society of Tropical Veterinary Medicine (STVM).
- 1999-present: American Society of Microbiology (ASM).

PROFESSIONAL SERVICES

- 2009 *Editorial board member:* Foodborne pathogens and diseases journal
- 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 *Scientific committee member,* Eighth International Symposium on foodborne Pathogens Epidemiology and control in Pork (SAFEPOK), to be held in Quebec City , Canada from Sep. 29th to Oct. 2nd.
- 2009 *Technology Assessment consultant:* Department of Homeland Security (DHS) in areas of New detection technologies, molecular epidemiology and source tracking in the food industry and food safety as it relates to livestock.
- 2009 *Keynote Speaker:* Asia-Pacific Foodborne and Zoonoses Symposium, Chang Mai, Thailand, July 26-29, 2009 (*In progress*).
- 2009 *Guest Editor,* Journal of Zoonosis and Public Health.
- 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.
- 2008 *Grant review Panelist,* American Association for Advancement of Science (AAAS) for The Kingdom of Saudi Arabia National Science, Technology and Innovation Plan.
- 2008 *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 U.S. Department of Agriculture, Epidemiological Approaches for Food Safety, grant review panel, Washington, D.C.
- 2008- Present: *National Pork Board:* MRSA Taskforce member.
- 2008 International Congress committee, Public Health Preparedness in Infectious Diseases, The Ohio State University.
- 2008 *Chair, Search committee* for Veterinary Epidemiologist position.
- 2008 *Search committee* member for Director of Clinical Infectious Diseases, OSU-VTH.
- 2007 Organizing committee member for conference on microbial ecology of antimicrobial resistance. EU-US Safe Food consortium, Madrid, Spain.

- 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
- 2006- Present *National Pork Board*: Pharmaceutical Issues Task Force (PITF) member
- 2006- present *National Pork Board*: Pre-harvest Pork Safety committee
- 2006- present: College Infectious Diseases Committee (CIDC), OSU.
- 2006- Council on Research (member), College of Veterinary Medicine, The Ohio State University.
- 2006- *University of South Australia*. External examiner for a Ph.D. program, School of Pharmacy and Medical Sciences, Adelaide, Australia.
- 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- *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- *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)*.

- 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 Veterinary Public Health*, *Foodborne Pathogens and Diseases*.
- 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.

RESEARCH GRANTS (Funded by Extramural sources)

- 09/08- 09/11 USDA- National Integrated Food Safety Initiative (NIFSI): \$592,226
An Integrated Approach to determine *Salmonella* Dynamics in the Niche-Market Antimicrobial-Free Swine Production System
Co- Project Director (S. Thakur, PI)

- 10/08- 10/09 NPB: \$4,100
Genotyping of *Campylobacter coli* in pigs from farm to fork
Project Director
- 08/08- 08/10 National Pork Board (NPB): \$149,226
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.
Project Director (for Ohio portion)
- 09/07- 09/11 USDA- National Research Initiative (NRI): \$810,949
Biocide and Heavy metal use in swine production and association with multi-drug resistant *Salmonella*
Project Director.
- 07/07- 07/08 National Pork Board: \$50,000
Epidemiology, Toxino- and Genotyping of *Clostridium difficile* isolated from Swine production systems
Project Director.
- 12/06- 11/08 National Pork Board: \$68,952
In-plant factors and transfer of antimicrobial resistance among four organisms: *Salmonella*, *Campylobacter*, *E. coli* and enterococci.
Project Director
- 10/04- 09/07 US Department of Agriculture; \$549,726
Integrated water-shed based molecular and hydrologic monitoring to assess pathogen loading in estuarine environment.
Co-Project Director (N. White, PI).
- 10/04- 09/07 US Department of Agriculture; \$599, 996
Agricultural Ceftiofur Use and the Dissemination of third-generation cephalosporin resistance genetics of public health concern
Co-Project Director (T. Wittum, PI).
- 08/05- 07/06 National Pork Board: \$93,600
Development of a Microarray for the Rapid and Simultaneous Detection and Tracking of Bacterial and Viral Foodborne Pathogens
Project Director.
- 07/04- 06/06 Intervet Pharmaceutical Inc.: \$20,000
Effect of Flavophospholipol against antimicrobial resistant *Salmonella enterica* in Pigs
Project Director.
- 03/04- 05/05: National Pork Board; \$14,500
Serological Analysis of *Trichniella* and *Toxoplasma* among samples isolated from conventional and antimicrobial free swine

Project Director.

- 09/30/03- 09/30/05 US Department of Agriculture; \$450,000
Tracking the Source of Enteric Pathogens in Surface Waters
Co-investigator (J. Levine, PI).
- 10/01/02- 09/30/06 US Department of Agriculture; \$520,715
Source, Diversity and Resistance of Foodborne Pathogens in Swine and Pork
Project Director
- 07/01/02- 06/30/05 North Carolina Pork Council; \$91,068
Genetic Analysis of Factors Affecting Introduction and Dissemination of
Resistant *Salmonella* and *Campylobacter* in Pork
Project Director.
- 09/15/01-9/30/05 US Department of Agriculture; \$599,952
Biosecurity and Diversity of Foodborne Pathogen on Poultry Farms
Co-investigator (J.P. Vaillancourt, PI)
- 06/01/02-05/30/04 US Department of Agriculture; \$260, 330
Farm injuries and Illnesses Project in North Carolina
Co-Principal Investigator (W. Gregory Cope, PI)
- 10/1/98-3/31/00 National Pork Producers Council \$24,972.
On-farm antimicrobial use and patterns of antimicrobial resistance of
Salmonella isolates collected on-farms and at slaughter plants
Co-investigator (P. Davies, PI)
- 7/1/99-6/31/02 North Carolina Pork Council \$70,580.
Molecular Epidemiology of Multiple-Resistant *Salmonella* in Swine
Collaborator (P. Davies, PI)

PUBLICATIONS AND PRESENTATIONS***Publications in peer-reviewed scientific journals***

1. **Gebreyes WA***, Siddhartha Thakur, Paul Dorr, Daniel A. Tadesse, Karen Post and Leslie Wolf. 2009. Occurrence of virulence gene *spvA* and role on the clinical significance of multi-drug resistant *Salmonella*. *J Clin Microbiol.* 47(3):777-780.
2. Zewde BM, Robbins RC, Abley MJ, House B, Morrow WEM, **Gebreyes WA***. 2009. Comparison of Swiffer® wipes and conventional drag swabs in the recovery of *Salmonella* in swine production systems. *J. Food Protection.* 72(1):142-146.
3. Paul M. Dorr, Daniel A. Tadesse, Bayleyegn Molla Zewde, Siddhartha Thakur and **Gebreyes WA***. 2009. Longitudinal Study on *Salmonella* dispersion and the role of environmental

- contamination in commercial swine production systems. *Applied Environmental Microbiology*. 75(6):1478-86.
4. Thakur, Siddhartha; White, David; McDermott, Patrick; Zhao, Shaohua; Harbottle, Heather; **Gebreyes WA**; Abbott, Jason; English, Linda; Carter, Peggy; Kroft, Brenda; Lafon, Patti. 2009. Genotyping of *Campylobacter coli* isolated from Humans and Retail Meats Using Multi Locus Sequence Typing and Pulsed Field Gel Electrophoresis. *J Applied Microbiol*. 106(5): 1722-1733.
 5. Mengesha D, Molla Zewde B., Toquin MT, Kleer J, Hildebrandt G, **Gebreyes WA**. 2009. Occurrence and Distribution of *Listeria monocytogenes* and Other *Listeria Species* in Ready-to-Eat and Raw Meat Products. *Tierärztliche Wochenschrift*. 122(1-2):20-24.
 6. Heider LC, Funk JA, Hoet AE, Meiring RW, **Gebreyes WA**, Wittum TE. 2009. Identification of *Escherichia coli* and *Salmonella enterica* organisms with reduced susceptibility to ceftriaxone from fecal samples of cows in dairy herds. *Am J Vet Res*. (3):389-93.
 7. Pandya M, Wittum T, Tadesse DA, **Gebreyes W**, Hoet A. 2009. Environmental *Salmonella* Surveillance in The Ohio State University Veterinary Teaching Hospital. *Vector Borne Zoonotic Dis*. Mar 9. [Epub ahead of print]
 8. Vijaya Bharathi Srinivasan, Govindan Rajamohan, Preeti Pancholi, Kurt Stevenson, Daniel A. Tadesse, Prapas Patchanee, Mario Marcon, **Gebreyes WA***. 2009. Genetic relatedness and molecular characterization of resistance determinants in multi-drug resistant *Acinetobacter baumannii* isolated in central Ohio, USA. *Annals of Clinical Microbiology and Antimicrobials (In Press)*.
 9. Schissler J., Hillier A., Daniels J., Cole L. And **Gebreyes WA**. 2009. Evaluation of Clinical Laboratory Standards Institute interpretive criteria for methicillin-resistant *Staphylococcus pseudintermedius* isolated from dogs. *J Vet Diagnostic Investigation* 21 (5): (In Press)
 10. Patchanee P., Molla Zewde B., Tadesse D. and **Gebreyes WA***. 2008. Characterization of multi-drug resistant *Salmonella enterica* serovar Heidelberg isolated from humans and animals. *Foodborne Pathogens and Diseases* 5(6): 839-851
 11. **Gebreyes WA***, Bahnson P., Funk JA, McKean J. and Patchanee P. 2008. Seroprevalence of *Trichinella*, *Toxoplasma* and *Salmonella* in Antimicrobial-free and Conventional Swine Production Systems. *Foodborne Pathogens and Diseases* 5(2): 199- 203.
 12. Rajala-Schultz, P.J.; A.H. Torres, F.J. DeGraves, P. Patchanee and **Gebreyes WA**. 2008. Antimicrobial resistance and strain persistence in coagulase-negative staphylococci over the dry period. *Veterinary Microbiology*. 134(1-2):55-64
 13. Heider, L.C., Meiring, R.W., Hoet, A.E., **Gebreyes, W.A.**, Funk, J.A., Wittum, T.E. 2008. The effect of vaccination with a commercial subunit vaccine on the shedding of *Salmonella enterica* in non-clinically infected dairy cows. *JAVMA* 233(3):466-469.

14. Hoet AE, Caswell RJ, DeGraves FJ, Rajala-Schultz PJ, **Gebreyes WA**, Saville WJ, Wittum TE. 2008. A new approach to teaching veterinary public health at the Ohio State University. *J Vet Med Educ.* 35(2):160-165.
15. Paul M. Dorr, Megan Nemechek, Alan B. Scheidt, Ronald E. Baynes, **Gebreyes WA**, Glen W. Almond. 2008. Pharmaco-epidemiology of Water Flow Variation and Pharmaceutical Delivery in Swine Finishing Facilities. *JAVMA (In Press, JAVMA-08-08-0435)*.
16. Daniel A. Tadesse, Peter B. Bahnson, Julie A. Funk, Siddhartha Thakur, W.E. Morgan Morrow, Melanie Abley and **Gebreyes WA***. 2008. *Yersinia enterocolitica* of porcine origin, carriage of virulence genes and genotypic diversity. *Foodborne Pathogens and Diseases (In Review)*
17. Paul M. Dorr and **Gebreyes WA***. 2008. Flavophospholipol: Effect on multi-drug resistant *Salmonella enterica* serovar Typhimurium in swine. *J Swine Health and Production (In Review)*.
18. Miller O, Fuller FJ, **Gebreyes WA**, Lewbart GA, Shchelkunov IS, Shivappa RB, Joiner C, Woolford G, Stone DM, Dixon PF, Raley ME, Levine JF. 2007. Phylogenetic analysis of spring viremia of carp virus reveals distinct subgroups with common origins for recent isolates in North America and the UK. *Dis Aquat Organ.* 76(3):193-204.
19. Thakur S, Tadesse D, Morrow WEM and **Gebreyes WA***. 2007. Occurrence of Multi-drug resistant *Salmonella* in antimicrobial-free swine production systems. *Vet. Microbiol.* 125(3-4):362-7
20. Dorr PM, **Gebreyes WA** and Almond G. 2007. Porcine Reproductive and Respiratory Syndrome Virus: Age and management system disease modeling for pathogenic co-infection. *J. Swine Health Prod.* 15 (5): 258-263
21. Siemon CE, Bahnson PB and **Gebreyes WA***. 2007. Comparative investigation of Prevalence and Antimicrobial Resistance of *Salmonella* between Pasture and Conventionally-reared Poultry. *Avian Diseases* 51: 112-117.
22. Dorr PM, Baker RB, Almond GW, Wayne SR, **Gebreyes WA***. 2007. Epidemiologic assessment of porcine circovirus type 2 coinfection with other pathogens in swine. *J Am Vet Med Assoc.* 230(2):244-50.
23. Thakur S, Morrow WEM, Funk JA, Bahnson PB, **Gebreyes WA***. 2006. Molecular Epidemiologic investigation of *Campylobacter coli* in swine production systems using Multi-Locus Sequence Typing (MLST). *Applied Environ Microbiol* 72(8):5666-9.
24. **Gebreyes, WA***, Altier, C. and Thakur, S. 2006. Molecular Epidemiology and Diversity of *Salmonella* serovar Typhimurium in Pigs using Phenotypic and Genotypic Approaches. *Epidemiology and Infection.* 134: 187-198.

25. **Gebreyes WA***, S. Thakur and W.E. Morrow. 2006. Comparison of Prevalence, Antimicrobial Resistance and Occurrence of Multi-drug resistant *Salmonella* in Antimicrobial-free and Conventional Pig Production Systems. *Journal of Food Protection*. 69(4): 743-748.
26. Thakur S. and **Gebreyes WA***. 2005. Prevalence and Antimicrobial Resistance of *Campylobacter* in Antimicrobial-Free and Conventional Production Systems. *Journal of Food Protection* 68(11):2402-10.
27. S. Thakur and **Gebreyes WA***. 2005. *Campylobacter coli* in Swine Production: Antimicrobial Resistance Mechanisms and Molecular Epidemiology. *J Clin Microbiol*. 43(11):5705-14.
28. **Gebreyes, WA***, S. Thakur and W.E. M. Morrow. 2005. *Campylobacter coli*: Prevalence and antimicrobial resistance in Antimicrobial-free Swine Production Systems. *J. Antimicrob Chemother* 56(4):765-8.
29. **Gebreyes WA***, Thakur S. 2005. Multidrug-resistant *Salmonella enterica* serovar Muenchen from pigs and humans and potential interserovar transfer of antimicrobial resistance. *Antimicrob Agents Chemother*. 49(2):503-11.
30. Kong XQ, Shea D, **Gebreyes WA**, Xia XR. 2005. Novel hydrophobicity ruler approach for determining the octanol/water partition coefficients of very hydrophobic compounds via their polymer/solvent solution distribution coefficients. *Anal Chem*. 77(5):1275-81.
31. Funk, J.A. and **Gebreyes WA**. 2004. Risk factors associated with *Salmonella* prevalence on swine farms. *J Swine Health Prod*. 12: 246-51.
32. **Gebreyes WA***, S. Thakur, P. R. Davies, J. A. Funk and C. Altier. 2004. Trends in antimicrobial resistance, phage types and integrons among *Salmonella* serotypes from pigs, 1997-2000. *J. Antimicrob Chemother* 53(6):997-1003.
33. **Gebreyes WA***, P. R. Davies, P.-K. Turkson, W.E. M. Morrow, J. A. Funk, C. Altier. 2004. *Salmonella enterica* serovars from pigs on-farm and after slaughter and validity of using bacteriologic data to define herd *Salmonella* status. *Journal of Food Protection* 67(4): 691-697.
34. **Gebreyes WA***, P. R. Davies, P. K. Turkson, W.E. M. Morrow, J. A. Funk, C. Altier, S. Thakur. 2004. Characterization of antimicrobial resistance phenotypes and genotypes among *Salmonella enterica* recovered from pigs on-farm, trucks and after slaughter. *Journal of Food Protection* 67(4): 698-705.
35. **Gebreyes WA***. 2003. Preharvest Food safety diagnostics for *Salmonella* serovars. Part 2: Molecular diagnostics. *J Swine Health Prod*. 11: 141-145.
36. **Gebreyes WA*** and S. Thakur. 2003. Molecular Epidemiology of Multi-drug Resistant *Salmonella enterica* serovar Typhimurium isolated from Swine and Humans. *Infect. Genet. Evol.* 2:43.

37. **Gebreyes WA*** and C. Altier. 2002. Molecular characterization of antimicrobial resistance genes among multi-drug resistant *Salmonella*. *J Clin Microbiol* 40(8): 2813-2822.
38. Funk, J.A., P. Davies and **Gebreyes WA**. 2001. Risk factors associated with *Salmonella enterica* prevalence in three-site swine production systems in North Carolina, USA. *Tierärztliche Wochenschrift*. 114: 335-338.
39. **Gebreyes WA**, J.A. Funk, P. Davies, and C. Altier. 2000. Antimicrobial Resistance of *Salmonella* Isolates from Swine. *J Clin Microbiol* 38:4633-4636.

Publications (Non-refereed)

1. **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
2. **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
3. **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
4. 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.
5. **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.
6. 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.
7. **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.

8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. **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.
16. **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.
17. **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

18. **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.
19. **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.
20. 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.
21. **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.
22. 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.
23. 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.
24. **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.
25. **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.
26. **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.
27. **Gebreyes WA**, Altier C, Funk J and Davies P. Antimicrobial Resistance, Diversity, and Class-I integrons among *Salmonella* serovars isolated from swine. *Proceedings of the Fourth*

International Symposium on the Epidemiology and Control of Salmonella and other foodborne pathogens in Pork. Leipzig, Germany, September 2-5, 2001. p. 392-395.

28. Funk, J.A., P. Davies and **W.A. Gebreyes**. Risk factors associated with *Salmonella enterica* prevalence in three-site swine production systems in North Carolina, USA. *Proceedings of the Fourth International Symposium on the Epidemiology and Control of Salmonella and other foodborne pathogens in Pork.* Leipzig, Germany, September 2-5, 2001. p. 75-84.
29. **Gebreyes WA**, Funk JA, Turner MB, Nichols MG, Davies PR, and Altier C. Antimicrobial resistance of *Salmonella* isolated from cohorts of nursery and finishing pigs. *Proceedings of the Third International Symposium on Epidemiology and Control of Salmonella in Pork*, Washington, DC, August 5-7, 1999. p. 250-252
30. Davies PR, Funk JA, Nichols MG, Turkson P, **Gebreyes WA**, Ladley S, and Fedorka-Cray PJ. Effects of some methodologic factors on detection of *Salmonella* in swine feces. *Proceedings of the Third International Symposium on Epidemiology and Control of Salmonella in Pork*, Washington, DC, August 5-7, 1999. p. 30-32.

Publications in scientific Newsletters

1. Antimicrobial Use, Resistance and Impact to the Pork Industry: Monthly update. *American Association of Swine Veterinarians Newsletter*. May 15, 2005. URL: <http://www.aasv.org/news/story.php?id=1466> p. 1-9.
2. Antimicrobial Use, Resistance and Impact to the Pork Industry: Monthly update. *American Association of Swine Veterinarians Newsletter*. October 1, 2004. URL: <http://www.aasv.org/news/story.php?id=1219> p. 1-13.
3. 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.
4. 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.
5. 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.
6. 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
7. *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>

- Gebreyes, W.A. 2001. Antibiotics: Pros and Cons. Let's not Rush in. *International Pigletter* Vol. 21 no. 10.

Book Chapters

- Gebreyes WA. 2009. **Phenotypic subtyping of foodborne pathogens**. Stanley Brul et al., Ed. Woodhead Publishing, United Kingdom (*In progress*).
- 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

- Free range Trichiniosis. *New York Times*. Op-Ed. April 10, 2009.
http://www.nytimes.com/2009/04/10/opinion/10mcwilliams.html?_r=2&ref=opinion
- 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
- 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>
- Antibiotic-free pigs carry more bacteria. 2008. *Feedstuffs*: The weekly Newspaper for Agribusiness. June 16, 2008. Vol. 80 (24), Page 1 & 4 (Headline, Tim Lunden ed.). URL: <http://www.feedstuffs.com/ME2/dirmod.asp?sid=&nm=&type=Publishing&mod=Publications%3A%3AArticle&mid=AA01E1C62E954234AA0052ECD5818EF4&tier=4&id=AC9841B6538E42B8B18117406685A9A7>
- 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/>
- Pigs Raised Without Antibiotics More Likely To Carry Bacteria, Parasites. *Science Daily Magazine*. June 12, 2008.
URL: <http://www.sciencedaily.com/releases/2008/06/080611144016.htm>
- 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>

8. Infectious Disease: Expecting the Worst (By Melissa Lee Phillips). *Environmental Health perspectives*. Published by NIEHS. June 2005. Vol. 113 (6): A371.
9. 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
10. *Salmonella enterica* serovars from pigs on-farm and after slaughter and validity of using bacteriologic data to define herd *Salmonella* status. Food Safety Net News, April, 2004. http://archives.foodsafetynetwork.ca/fsnet/2004/4-2004/fsnet_april_1.htm#story8
11. 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/
12. *Salmonella*: Good News and Bad News. In Brief: From the International Conference on Emerging Infections, 2000. ASM News. 66(10): 596.

Invited Presentations

1. University of Hannover, Bakum, Germany. Antimicrobial resistance in swine enteric pathogens and control strategies. June 9, 2009. (*In Preparation*).
2. Institute for Semi-Arid development (INSA), Campina Grande, Brazil. March 27, 2009. **Preliminary investigation of Methicillin resistant staphylococci in Paraiba, Brazil: a collaborative effort between OSU and UFPB.**
3. Asia-Pacific Foodborne and Zoonoses Symposium, Chang Mai, Thailand, July 26-29, 2009. KEYNOTE SPEAKER: **Molecular Epidemiology of Antimicrobial Resistance among Key Foodborne Pathogens.** (*In Preparation*).
4. Phytobiotics GMBH symposium. Rennes, France, June 8-11, 2009. **The Role of antimicrobial alternatives in Production immunologic and Gut Physiologic Parameters in Swine.** (*In preparation*).
5. Midwestern Veterinary Conference, Columbus, Ohio February 19, 2009. **Epidemiology of hypervirulent *Clostridium difficile* in pigs and humans.**
6. U.S. Department of Agriculture, Washington, D.C. Nov. 17-19, 2008. **Biocide use in swine production systems and association with multi-drug resistant *Salmonella*.**
7. Ohio Department of Agriculture, Director's office, Reynoldsburg, OH. Nov. 13, 2008. **Antimicrobial use in food animals and association with antimicrobial resistance.**
8. Center for African Studies, OSU. Columbus, OH. October 22, 2008. **Research and training capacity building: veterinary public health in East Africa.**

9. National Pork Board, Des Moines, IA. October 14, 2008. **Prevalence and characterization of Methicillin Resistant Staphylococcus aureus (MRSA) in pigs and farm workers.**
10. Ohio Environmental Council, Columbus, OH, June 06, 2008. **Prevalence and antimicrobial resistance in antimicrobial-free and conventional production systems.**
11. One Medicine Conference, Columbus, OH. September 11, 2008. ***Clostridium difficile*: An emerging Zoonosis?**
12. OSU-CVM Alumni reunion weekend continuing education conference, Columbus, OH. September 05, 2008. **Passive surveillance of MRSA and other predominant pathogens in OSU-VTH.**
13. University of Khartoum, Sudan. January 22, 2008. **Molecular Epidemiology and Characterization of foodborne and nosocomial pathogens.**
14. Iowa State University, Ames, IA, Nov. 7-9, 2007. **Truck wash practices and *Salmonella* dispersion in commercial swine production systems.**
15. Phytobiotics GMBH. October 2, 2007, Munich, Germany. **Food Safety and optimum production of food animals without the use of antimicrobials.**
16. National Pork Board/ CDC/ USDA. July 30, 2007, Chicago, Illinois. **Comparative epidemiology, toxino- and genotyping of *Clostridium difficile* isolated from swine and humans.**
17. American Association of Veterinary laboratory Diagnosticians (AAVLD) food safety symposium. Minneapolis, MN. October 12, 2006. **Antimicrobial use and resistance in foodborne pathogens.**
18. 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.)
19. American Association of Swine Veterinarians (AASV) Annual Conference. Kansas City, MO. March 4-7, 2006. **Antimicrobial Resistance in Foodborne Pathogens**
20. The Ohio State University (OSU), College of Veterinary Medicine, Department of Veterinary Preventive Medicine. January 11, 2006 (candidature for Associate Professor Position.)
21. The Ohio State University (OSU), College of Veterinary Medicine, Department of Veterinary Biosciences. Infectious diseases Signature Program Seminar Series. November 2, 2005.
22. National Pork Board (NPB), Postharvest Needs Assessment Conference. Cincinnati, OH, July 26-27, 2005 ***Campylobacter* and food safety issues at postharvest levels.**

23. 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.**
24. 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.**
25. 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.**
26. 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.**
27. National Animal Health Research Center (NAHRC), Sebeta, Ethiopia. July 8-9, 2004. **Workshop on Microbial Isolation/ Identification and Characterization.**
28. 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.**
29. National Pork Board (NPB). December 17, 2003. Des Moines, IA. **Review of the 12th International Symposium on *Campylobacter*, *Helicobacter* and Related Organisms.** Aarhus, Denmark.
30. National Pork Board (NPB). December 18, 2003. Des Moines, IA. **Update on international initiative on harmonization of sampling methods and culturing techniques for *Salmonella*.**
31. National Animal Health Research Center (NAHRC). September 29, 2003. Sebeta, Ethiopia. **Antimicrobial Resistance of Foodborne Pathogens and Genotypic Approaches.**
32. Ethiopian Health and Nutrition Research Institute (EHNRI). September 25, 2003. Addis Ababa, Ethiopia. **Diversity of Foodborne Pathogens: Phenotypic and Genotypic Approaches.**
33. Addis Ababa University, Faculty of Veterinary Medicine. September 19, 2003. Debre Zeit, Ethiopia. **Diversity of Foodborne Pathogens: Phenotypic and Genotypic Approaches.**
34. 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.**
35. 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.**

36. **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.
37. 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.
38. **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.
39. **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.
40. **Public Health Aspects of Foodborne Diseases Related to Swine.** Pork Quality and Safety Summit. Des Moines, Iowa. June 18, 2002.
41. **Molecular Epidemiology of Salmonellae in swine.** At Department of Preventive Veterinary Medicine, Ohio State University, Columbus, OH February 27th, 2001.
42. **Epidemiology of Salmonellae in swine: from farm to the genome.** At Food Animal Health Research Program, Ohio State University, Wooster, OH February 28th, 2001.
43. **Molecular Epidemiology of Salmonellae in swine.** At Department of Veterinary Medicine, University of Maryland, College Park, MD March 1st, 2001.
44. **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.

Abstracts in national and international scientific meetings

1. **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.
2. 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.
3. **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.
4. 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.
 5. 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.
 6. Daniel Alemayehu 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.
 7. 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.
 8. 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.
 9. **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.
 10. **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.
 11. 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.
 12. 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.
 13. 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.

14. 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.
15. **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.
16. 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.
17. 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.
18. **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).
19. **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).
20. 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.
21. 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
22. 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.
23. **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.
24. **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).

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