

CURRICULUM VITAE**Name: Guy H. Loneragan****Title: Professor of Food Safety and Public Health, and Faculty Fellow****Address: Texas Tech Univ., MS 42141, Lubbock, Texas 79409-2141****Telephone: (806)834-1291****Fax: ()****E-mail: Guy.Loneragan@ttu.edu****A. Education/Training**

INSTITUTION AND LOCATION	DEGREE	YEAR (s)	FIELD OF STUDY
Colorado State University, Ft. Collins, CO	PhD	1999-2001	Epidemiology
Colorado State University, Ft. Collins, CO	MS	1996-1998	Population and production medicine
University of Sydney, Sydney, Australia	BVSc	1989-1994	Veterinary medicine

B. Positions and Employment

Faculty Fellow	Texas Tech University	2014-present
25% Appointment reporting to the Vice President for Research.		
Professor of Food Safety and Public Health	Texas Tech University	2010-present
75% appointment; research focused on developing meaningful and practical solutions in complex agri-food systems for important animal and human health challenges.		
Adjunct Professor	Kansas State University	2006-present
Associate Professor	West Texas A&M University	2007-2010
Assistant Professor	West Texas A&M University	2002-2007

C. Awards and Honors

Appointment as Faculty Fellow	Texas Tech University	2014-present
Barnie E. Rushing, Jr. Faculty Distinguished Research Award		
Departmental nominee	Texas Tech University	2014
Harry L. Rudnick Outstanding Educator	North American Meat Assoc.	2014
Barnie E. Rushing, Jr. Faculty Distinguished Research Award		
Departmental nominee	Texas Tech University	2013
Research/Creative Excellence Award	West Texas A&M University	2009
Research/Creative Excellence Award	West Texas A&M University	2006
Co-chair of Outstanding Thesis Award	West Texas A&M University	2005
Mark Gearhart Memorial Graduate Student Award	AVPEM	2002

D. Professional Experience

- McDonald's Corp., global Animal Health and Welfare Team (Antimicrobial Resistance Sub-team) 2013-present
- National Advisory Committee on the Microbial Criteria of Food (appointed by the US Secretary for Agriculture) 2013-present
- National Cattlemen's Beef Association Salmonella Working Group. 2005-present

- North American Meat Association Salmonella Think Tank 2012-present
- Zoetis-sponsored Salmonella Research Cluster 2012-present
- National Cattlemen’s Beef Association E. coli O157 Pre-Harvest Best Production Practices Working Group. 2003-present
- Part of the USDA delegation on behalf of the National Cattlemen’s Beef Association to the general session of the World Organization for Animal Health 2012
- National Academies of Science Committee Member: An Evaluation of the Food Safety Requirements of the Federal Purchase Ground Beef Program 2010
- Director (member of Executive Board), Association for Veterinary Epidemiology and Preventive Medicine. 2009-2011
- Chair, American Association of Bovine Practitioners, Beef Production Committee 2009-2010
- North American Food Animal Welfare Commission – Inaugural Commissioner 2009-present
- National Cattlemen’s Beef Association Beef Quality Assurance Advisory Council 2009-present
- JBS Food Safety and Quality Advisory Team 2009-present
- Board of Directors, Academy of Veterinary Consultants 2008-2014
- Institutional Animal Care and Use Committee, Texas Tech University 2011-2012
- Alternate Member, United States Department of Agriculture Secretary’s Advisory Committee on Foreign Animal and Poultry Diseases 2007
- Member, Board of Scientific Reviewers for the American Journal of Veterinary Research. 2006-2009
- Writing team member: Production Methods and Animal Husbandry, A National Commission on Industrial Farm Animal Production Report. The Pew Commission on Industrial Farm Animal Production. 2007-2008
- Declarant (June 10 and July 13 filings co-author) on behalf of United State Department of Agriculture, Animal Plant Health Inspection Service versus R-CALF USA. Cause CV 05 06 BLG RFC in the United States district court, Billings, Montana, division. 2005
- Member, Steering Committee, Food Safety Research and Response Network 2004-2009
- Section Leader, Animal Health Epidemiology and Economics section of the Conference of Research Workers in Animal Diseases. 2004-2009
- National Cattlemen’s Beef Association International BSE Expert Forum. 2004-2005
- West Nile Virus Advisory Board for the Amarillo Health Authority. 2002-2004

LIST OF PUBLICATIONS (last 4-years)

(This section does not count towards the 2-page limit set by USDA.)

- 2014 Loneragan G. H., D. U. Thomson, H. M. Scott. Increased Mortality in Groups of Cattle Administered the β -Adrenergic Agonists Ractopamine Hydrochloride and Zilpaterol Hydrochloride. *PLOS ONE*. 2014;9(3):e91177. doi: 10.1371/journal.pone.0091177

- 2014 Edrington T. S., K. M. Bischoff, G. H. Loneragan, D. J. Nisbet. Evaluation of feeding distiller's grains, containing virginiamycin, on antimicrobial susceptibilities in fecal isolates of *Enterococcus* and *E. coli* and prevalence of resistance genes in cattle. *J Animal Sci.* 2014; 92:1144-1149. doi: 10.2527/jas.2013-6954
- 2013 Kanwar N., Scott H. M., Norby B., Loneragan G. H., Vinasco J., McGowan M., Cottell J. L., Chengappa M. M., Bai J., Boerlin P. Effects of ceftiofur and chlortetracycline treatment strategies on antimicrobial susceptibility and on tet(A), tet(B), and bla CMY-2 resistance genes among *E. coli* isolated from the feces of feedlot cattle. *PLOS ONE.* 2013;8(11):e80575. doi: 10.1371/journal.pone.0080575
- 2013 Gragg S. E., G. H. Loneragan, K. K. Nightingale, D. M. Brichta-Harhay, H. Ruiz, J. R. Elder, L. G. Garcia, M. F. Miller, A. Echeverry, R. G. Ramírez Porras, M. M. Brashears. Substantial within-Animal Diversity of Salmonella Isolates from Lymph Nodes, Feces, and Hides of Cattle at Slaughter. *Appl Environ Microbiol.* 2013 Aug;79(15):4744-50. doi: 10.1128/AEM.01020-13
- 2013 Callaway, T. R., T. S. Edrington, G. H. Loneragan, M. A. Carr, and D. J. Nisbet. Current and near-market intervention strategies for reducing Shiga Toxin-Producing *Escherichia coli* (STEC) shedding in cattle. *Agric. Food Anal. Bacteriol.* 2013
- 2013 Callaway, T. R., T. S. Edrington, G. H. Loneragan, M. A. Carr, D. J. Nisbet. Shiga Toxin-Producing *Escherichia coli* (STEC) Ecology in Cattle and Management Based Options for Reducing Fecal Shedding. *Agric. Food Anal. Bacteriol.* 2013;3:39-69.
- 2013 Edrington, T. S., G. H. Loneragan, J. Hill, K. J. Genovese, D. M. Brichta-Harhay, R. L. Farrow, N. A. Krueger, T. R. Callaway, R. C. Anderson, D. J. Nisbet. Development of challenge models to evaluate the efficacy of a vaccine to reduce carriage of salmonella in peripheral lymph nodes of cattle. *J Food Prot.* 2013 Jul;76(7):1259-63. doi: 10.4315/0362-028X.JFP-12-319.
- 2013 Edrington, T. S., G. H. Loneragan, J. Hill, K. J. Genovese, H. He, T. R. Callaway, R. C. Anderson, D. M. Brichta-Harhay, D. J. Nisbet. Development of a transdermal salmonella challenge model in calves. *J Food Prot.* 2013 Jul;76(7):1255-8. doi: 10.4315/0362-028X.JFP-12-317.
- 2013 Gragg, S. E., G. H. Loneragan, M. M. Brashears, T. M. Arthur, J. M. Bosilevac, N. Kalchayanand, R. Wang, J. W. Schmidt, J. C. Brooks, S. D. Shackelford, T.L. Wheeler, T. R. Brown, T. S. Edrington, D. M. Brichta-Harhay. Cross-sectional Study Examining *Salmonella enterica* Carriage in Subiliac Lymph Nodes of Cull and Feedlot Cattle at Harvest. *Foodborne Pathog Dis.* 2013;10(4):368-374.
- 2013 Doyle, M. P, G. H. Loneragan, H. M. Scott, and R. S. Singer. Antimicrobial Resistance: Challenges and Perspectives. *Comprehensive Reviews in Food Science and Food Safety.* 2013;12:234-248.
- 2013 Cottell, J., N. Kanwar, L. Castillo-Courtade, G. Chalmers, H. Morgan Scott, B. Norby, G. H. Loneragan, P. Boerlin. bla_{CTX-M-32} on an IncN plasmid in *E. coli* from U.S. beef cattle. *Antimicrob Agents Ch.* 2013; 57(2):1096-1097
- 2013 Hill, J., T.S. Edrington, G.H. Loneragan, S.E. Gragg, and D.J. Nisbet. Rapid detection of *Salmonella* in bovine lymph nodes using a commercial real-time PCR system. *J Postdoctoral Research.* 2013;1:42-46
- 2012 Wolf, M. J., M. F. Miller, A. R. Parks, G. H. Loneragan, A. J. Garmyn, L. D. Thompson, A. Echeverry, M. M. Brashears. Validation Comparing the Effectiveness of a Lactic Acid Dip with a Lactic Acid Spray for Reducing *Escherichia coli* O157:H7, *Salmonella*,

- and Non-O157 Shiga Toxigenic *Escherichia coli* on Beef Trim and Ground Beef. *J Food Protect.* 2012;75(11):1968–1973.
- 2012 Krueger, N. A., T. S. Edrington, R. L. Farrow, R. Hagevoort, R. C. Anderson, G. H. Loneragan, T. R. Callaway, D. J. Nisbet. Evaluation of an Experimental Sodium Chlorate Product, With and Without Nitroethane, on *Salmonella* in Cull Dairy Cattle. *Agric Food Anal Bacteriol.* 2012;2(2):82-87.
- 2012 Poole, T. L., T. R. Callaway, K. M. Bischoff, G. H. Loneragan, R. C. Anderson, D. J. Nisbet. Competitive effect of commensal fecal bacteria from growing swine fed chlortetracycline-supplemented feed on β -hemolytic *Escherichia coli* strains with multiple antimicrobial resistance plasmids. *J Applied Micro.* 2012;113(3):659-668.
- 2012 Brichta-Harhay, D. M., T. M. Arthur, J. M. Bosilevac, N. Kalchayanand, J. W. Schmidt, R. Wang, S. D. Shackelford, G. H. Loneragan, T. L. Wheeler. Microbiological Analysis of Bovine Lymph Nodes for the Detection of *Salmonella enterica*. *J Food Prot.* 2012;75(5):854-8
- 2012 Loneragan, G. H., D. U. Thomson, R. M. McCarthy, H. E. Webb, A. E. Daniels, T. S. Edrington, D. J. Nisbet, S. J. Trojan, S. C. Rankin, M. M. Brashears. *Salmonella* diversity and burden in cows on and culled from dairy farms in the Texas High Plains. *Foodborne Pathog Dis.* 2012;9(6):549-555.
- 2012 Brashears, M. M., A. J. Garmyn, J. C. Brooks, D. Harris, G. Loneragan, A. Echeverry, T. E. Jackson, J. M. Mehaffey, M. F. Miller. Microbial quality of condensation in fresh and ready-to-eat processing facilities. *Meat Sci.* 2012;90(1):728-732.
- 2011 Yanamala, S., M. F. Miller; G. H. Loneragan, S. Gragg, M. M. Brashears. Potential for Microbial Contamination of Spinach through Feedyard Air/Dust Growing in Close Proximity to Cattle Feedyard Operations. *J Food Safety.* 2011;32(4):525-529.
- 2011 McClary, D. G., G. H. Loneragan, T. R. Shryock, B. L. Carter, C. A. Guthrie, M. J. Corbin, G. D. Mechor. Relationship of *in vitro* minimum concentration of tilmicosin to inhibit *Mannheimia haemolytica* and *Pasteurella multocida* and *in vivo* tilmicosin-treatment outcome among calves displaying signs of bovine respiratory disease. *J Am Vet Med Assoc.* 2011;239(1):129-35
- 2011 Rekow C. L., M. M. Brashears, J. C. Brooks, G. H. Loneragan, S. E. Gragg, M. F. Miller. Implementation of targeted interventions to control *Escherichia coli* O157:H7 in a commercial abattoir. *Meat Sci.* 2011;87(4):361-365.
- 2011 Poole, T.L., D. M. Brichta-Harhay, T. R. Callaway, R. C. Beier, K. M. Bischoff, G. H. Loneragan, R. C. Anderson, D. J. Nisbet. Persistence of resistance plasmids carried by beta-hemolytic *Escherichia coli* when maintained in a continuous-flow fermentation system without antimicrobial selection pressure. *Foodborne Pathog Dis.* 2011;8(4):535-540.
- 2010 Echeverry, A., J. C. Brooks, M. F. Miller, J. A. Collins, G. H. Loneragan, and M. M. Brashears. Validation of lactic acid bacteria, lactic acid, and acidified sodium chlorite as decontaminating interventions to control *Escherichia coli* O157:H7 and *Salmonella* Typhimurium DT 104 in mechanically tenderized and brine enhanced (non-intact) beef at the purveyor. *Journal of Food Protection.* 2010;73(12): 2169-2179.
- 2010 Acuff, G. A., W. K. Hallman, K. B. Harris, C. W. Hedberg, G. H. Loneragan, J. Ruzante, D. W. Schaffner, J. N. Sofos, J. G. Surak, K. M. J. Swanson, M. Wiedmann. National Research Council. An Evaluation of the Food Safety Requirements of the Federal Purchase Ground Beef Program. Washington, DC: The National Academies Press.

- 2010 Donder, K., D. U. Thomson, G. H. Loneragan, T. Noffsinger, W. Taylor, M. D. Apley. Lung Auscultation and Rectal Temperature as a Predictor of Lung Lesions and Bovine Respiratory Disease Treatment Outcome in Feedyard Cattle. *Bovine Practitioner*. 2010;44(2):146-153.
- 2010 Hughes M.K., S. Yanamala, M. San Francisco, G.H. Loneragan, M.F. Miller, M.M. Brashears. Reduction of multidrug-resistant and drug-susceptible *Salmonella* in ground beef and freshly harvested beef briskets after exposure to commonly used industry antimicrobial interventions. *J Food Prot.* 2010;73(7):1231-1237.
- 2009 Echeverry A., J. C. Brooks, M. F. Miller, J. A. Collins, G. H. Loneragan, M. M. Brashears. Validation of intervention strategies to control *Escherichia coli* O157:H7 and *Salmonella* Typhimurium DT 104 in mechanically tenderized and brine-enhanced beef. *J Food Prot.* 2009;72(8):1616-23.
- 2009 Thomson, D. U., G. H. Loneragan, A. B. Thornton, K. F. Lechtenberg, D. A. Emery, D. T. Burkhardt, T. G. Nagaraja. Use of a siderophore receptor and porin proteins-based vaccine to control the burden of *Escherichia coli* O157:H7 in feedlot cattle. *Foodborne Pathog Dis.* 2009;6(7):871-877.
- 2009 Carlson B. A., K. K. Nightingale, G. L. Mason, J. R. Ruby, W. T. Choat, G. H. Loneragan, G. C. Smith, J. N. Sofos, K. E. Belk. *Escherichia coli* O157:H7 strains that persist in feedlot cattle are genetically related and demonstrate an enhanced ability to adhere to intestinal epithelial cells. *Appl Environ Microbiol.* 2009;75(18):5927-5937.
- 2009 Edrington, T. S., R. L. Farrow, G. H. Loneragan, S. E. Ives, M. J. Engler, J. J. Wagner, M. J. Corbin, W. J. Platter, D. Yates, J. P. Hutcheson, R. A. Zinn, T. R. Callaway, R. C. Anderson, D. J. Nisbet. Influence of β -Agonists (Ractopamine HCl and Zilpaterol HCl) on Fecal Shedding of *Escherichia coli* O157:H7 in Feedlot Cattle. *J Food Prot.* 72(12):2587-2591.
- 2009 Echeverry, A., J. C. Brooks, M. F. Miller, J. A. Collins, G. H. Loneragan, M. M. Brashears. Validation of intervention strategies to control *Escherichia coli* O157:H7 and *Salmonella* Typhimurium DT 104 in mechanically tenderized and brine-enhanced beef. *J Food Prot.* 72(8):1616-1623.
- 2009 Alali, W. Q., H. M. Scott, B. Norby, W. Gebreyes, G. H. Loneragan. Quantification of the *bla*_{CMY-2} in feces from beef feedlot cattle administered three different doses of ceftiofur in a longitudinal controlled field trial. *Foodborne Pathog Dis.* 6(8):917-924.
- 2009 Thornton, A., D. U. Thomson, G. H. Loneragan, J. T. Fox, D. T. Burkhardt, D. A. Emery, and T. G. Nagaraja. Effects of a Siderophore Receptor and Porin Proteins-Based Vaccination on Fecal Shedding of *Escherichia coli* O157:H7 in Experimentally Inoculated Cattle. *J Food Prot.* 72(4):866-869
- 2009 Fluckey, W. M., G. H. Loneragan, R. D. Warner, A. Echeverry, M. M. Brashears. Diversity and susceptibility of *Enterococcus* isolated from cattle before and after harvest. *J Food Prot.* 72(4):766-774.
- 2009 Farrow, R. L., G. H. Loneragan, J. W. Pauli, T. E. Lawrence. An exploratory observational study to develop an improved method for quantifying beef carcass salable meat yield. *Meat Science.* 82:143-150.