

LANCE BRADLEY PRICE, PhD

George Washington University
School of Public Health and Health Services
Department of Occupational and Environmental Health
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EDUCATION

- 2006 Johns Hopkins University, Baltimore, MD
Doctor of Philosophy in Environmental Health Sciences
- 2000 Northern Arizona University, Flagstaff, AZ
Master of Science in Biology
- 1994 Northern Arizona University, Flagstaff, AZ
Bachelor of Science in Microbiology

PROFESSIONAL EXPERIENCE

- 10/13-Prsnt. George Washington University
Professor, Department of Environmental and Occupational Health
- 03/13-Prsnt. National Advisory Committee on Microbiological Criteria for Foods (NACMCF)
Member
- 02/10-Prsnt. Translational Genomics Research Institute (TGen), Flagstaff, AZ
Associate Professor, Division of Pathogen Genomics
Director, Center for Microbiomics and Human Health
Director, Center for Food Microbiology and Environmental Health
- 02/08-02/10 Translational Genomics Research Institute (TGen), Flagstaff, AZ
Associate Investigator, Division of Pathogen Genomics
Director, Center for Metagenomics and Human Health
- 01/07-Prsnt. Johns Hopkins University Center for a Livable Future, Baltimore, MD
Scientific Advisor
- 06/09-12/11 Interdisciplinary Health Policy Institute, Flagstaff, AZ
Senior Scientist
Director, Office of Wellness and Healthy Communities
- 01/09-12/10 Pew Charitable Trusts, Washington, DC
Senior Science Advisor, Pew Campaign on Human Health and Industrial Farming
- 01/07-02/08 Johns Hopkins University School of Medicine, Baltimore, MD
Director of Pathogenesis and Molecular Diagnosis of Infectious Diseases
- 08/03-12/06 Johns Hopkins University, Baltimore, MD
Graduate Research Assistant
- 12/05-08/06 Pew Commission on Industrial Farm Animal Production, Baltimore, MD

Research Specialist

- 04/02-08/03 Johns Hopkins University, Baltimore, MD
Research Associate
- 11/00-04/02 Intralytix, Inc., Baltimore, MD
Research Scientist
- 09/97-07/00 Keim Genetic Laboratory, Northern Arizona University, Flagstaff, AZ
Research Scientist
- 01/96-05/97 Northern Arizona University, Flagstaff, AZ
Laboratory Instructor
- 01/95-05/97 Northern Arizona University, Flagstaff, AZ
Graduate Research Assistant

DISTINCTIONS

Honors

- 12/15/12 *Recognized article* – Discover Magazine, 100 Top Stories of 2012 (#71 “*Pig Farms Breed Resistant Staph*”)
- 03/08/12 *Invited Speaker* – US Congressional Briefing on Antimicrobial Resistance. Washington DC.
- 04/14/10 *Invited Speaker* – US House Briefing on Antimicrobial Resistance and Human Health. Washington DC.
- 12/02/09 *Invited Speaker* – US House Briefing on Antimicrobial Resistance and Costs to the Health System. Washington, DC.
- 07/13/09 *Testimony* – US House Committee on Antimicrobial Drug Use on Farms. Washington, DC.
- 07/07/05 *Invited Speaker* – US House Briefing on Industrial Animal Production and Public Health. Washington, DC.

Awards

- 2003-2005 *Predocctoral fellow Award* – the Center for a Livable Future, Johns Hopkins School of Public Health
- 2004 *Best Health Communication Project* – the Center for Communications Programs, Johns Hopkins School of Public Health
- 2000 *Outstanding Master’s Thesis Award* – Department of Biological Sciences, Northern Arizona University
- 1996 *Sustaining Member Travel Grant* – American Society for Microbiology

PROFESSIONAL SERVICE

International Service

- 2010-prsnt. *External Partner* – Center for Genomic Epidemiology, the National Food Institute of Denmark
(<http://www.genomicepidemiology.org/>)

National Service

- 2013-2015 *Member* – National Advisory Committee on Microbiological Criteria for Foods
- Periodic *Reviewer* – BMC Infectious Diseases, Clinical Microbiology and Infection, Emerging Infectious Diseases, Environmental Health Perspectives, Genome Research, MBio, and PLoS ONE.

Department and School Service

- 2012-2013 *Member* – 6001 Revision Subcommittee (GWU)
- 2012-Presnt. *Member* – Research Committee (GWU)
- 2012 *Co-Chair* – Retreat Planning Committee (TGen)
- 2012 *Member* – Committee on Academic Position Descriptions (TGen)
- 2012 *Mentor* – Helios Scholars Program (TGen)
- 2009-2010 *Beta tester* – Bio4D LIMS system (TGen)

Student activities

- 2004-2005 *Representative* – Johns Hopkins School of Public Health Student Assembly
- 2005-2006 *Vice President* – Social and Cultural Affairs, Johns Hopkins School of Public Health Student Assembly

PROFESSIONAL SOCIETIES

- Current *Member* – American Public Health Association
- Current *Member* – American Society for Microbiology
- Current *Member* – Alliance for the Prudent Use of Antibiotics

ADMINISTRATIVE EXPERIENCE

- 2008-prsnt. *Director* – Center for Microbiomics and Human Health (formerly, Center for Metagenomics and Human Health), Translational Genomics Research Institute
- 2010-prsnt. *Director* – Center for Food Microbiology and Environmental Health Translational Genomics Research Institute
- 2009-2011 *Director* – Office of Wellness and Healthy Communities, Interdisciplinary Health Policy Institute

TEACHING EXPERIENCE

- 2013 *Instructor (sole)* – Effective, Evidence-Based Public Health Communications, George Washington University
- 2013 *Instructor (team)* – The Biologic Basis of Disease in Public Health, George Washington University
- 2012 *Guest Lecturer* – Applied Environmental Health Microbiology, George Washington University
- 2012 *Guest Lecturer* – Public Health Microbiology and Biodefense, George Washington University

- 2011 *Guest Lecturer* – Industrial Agricultural Impacts, College of Veterinary Medicine and Biomedical Sciences, Texas A&M.
- 2008-2012 *Guest Lecturer* – Infectious Diseases, Department of Biology, Northern Arizona University.
- 2009, 2011 *Guest Lecturer* – Microbial Ecology, Department of Biology, Northern Arizona University.
- 1997 *Laboratory Instructor* – Immunology Laboratory, Department of Biology, Northern Arizona University.
- 1997 *Laboratory Instructor* – Environmental Microbiology Laboratory, Department of Biology, Northern Arizona University.
- 1997 *Laboratory Instructor* – Biology of Microorganisms Laboratory, Department of Biology, Northern Arizona University.

GRADUATE ADVISING

- Current *CE Advisor* – Elias (Salam) Abdul
- Current *Member* – Graduate committee, Jennifer Ginther, PhD, Candidate
- 2011 *Chair* – Graduate committee, Lauren Buck, MS, complete
- 2008 *Member* – Graduate committee, Leo Kenefic, PhD, complete

ORAL PRESENTATIONS (July 2010-July 2012)

- 07/09/12 *Antibiotic abuse in food-animal production*. James Beard Foundation Chefs food camp for policy and change. Blackberry Farms, Knoxville, TN.
- 06/29/12 *Quantifying Foodborne Urinary Tract Infections “FUTIs”: a progress report*. 3rd ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens in Animals, Humans and the Environment. Aix-en-Provence, France.
- 06/15/12 *Uncovering the Impacts of Circumcision on the Penis Microbiome*. Copenhagenomics. Copenhagen, Denmark.
- 06/05/12 *Antibiotics 101*. Changing the meat we eat—from farm to table. Applegate Farms, Bridgewater, NJ.
- 05/15/12 *Livestock-Associated MRSA ST398: the birth of a superbug*. Illumina Summit. Dana Point, CA.
- 05/10/12 *Foodborne Urinary Tract Infections (FUTIs)*. Science in Northern Arizona. Flagstaff, AZ.
- 04/11/12 *Antibiotic-Resistant Foodborne Urinary Tract Infections (FUTIs): a new paradigm for food associated illness*. Physicians for Social Responsibility (University of Washington Chapter), Seattle, WA.
- 03/28/12 *Livestock-Associated MRSA ST398: the birth of a superbug*. Knight Science Journalism at Massachusetts Institute of Technology, Food Boot Camp. Cambridge, MA.
- 03/22/12 *“Raised without Antibiotics”: why it matters*. Community Education Seminar. New Frontiers. Sedona, AZ.

- 03/16/12 *Understanding Sustainable Meat Procurement.* Good Food Festival Panel. Chicago, IL.
- 03/15/12 *Choosing meat and poultry products labeled, "Raised without Antibiotics".* Parent Education Session II. Whole Foods Market. Chicago, IL.
- 03/14/12 *Antibiotic resistance 101: risks to children.* Chicago Mom's group. Healthy Schools Campaign. Chicago, IL.
- 03/14/12 *Choosing meat and poultry products labeled, "Raised without Antibiotics".* Parent Education Session. Whole Foods Market. Chicago, IL.
- 03/12/12 *Livestock-Associated MRSA ST398: the birth of a superbug.* Johns Hopkins University School of Public Health. Baltimore, MD.
- 03/08/12 US Congressional Briefing on Antimicrobial Resistance. Washington DC.
- 02/06/12 *MRSA ST398: the birth of a superbug.* Hvidovre Hospital Seminar Series. Hvidovre, Denmark.
- 10/25/11 *Livestock-associated methicillin resistant Staphylococcus aureus (LA-MRSA): an emerging threat?* Texas A&M Seminar Series. College Station, TX.
- 10/18/11 *Antibiotic-resistant urinary tract infections: a new paradigm for foodborne infections.* FoodMed 2011. Seattle, WA.
- 10/16/11 *Biohunters: How genomic analysis is aiding the fight against bioweapons, global epidemics and deadly food contaminants.* ScienceWriters2011. Flagstaff, AZ.
- 09/11/11 *The origins and evolution of MRSA ST398: through the lens of genome sequencing.* 2nd ASM-ESCMID Conference on Methicillin-resistant Staphylococci in Animals: Veterinary and Public Health Implications. Washington, DC
- 09/02/11 *Quantifying the human health impacts antibiotic use in food animal production.* North Country Health Grand Rounds. Flagstaff, AZ.
- 06/23/11 *Raised without Antibiotics: Why it matters.* Pew Charitable Trusts Headquarters. Philadelphia, PA
- 04/16/11 *Multidrug Resistant Staphylococcus aureus in US Meat and Poultry.* American Society for Microbiology Annual Meeting for the Arizona-Southern Nevada Regional Chapter. Flagstaff, AZ.
- 04/14/11 *Look Who's Coming to Dinner: Antibiotic Resistant Bacteria in Meat and Poultry.* Science on Tap. Flagstaff, AZ.
- 03/21/11 *Antibiotic use in food animal production: potential impacts on human health.* Flagstaff Medical Center Seminar Series. Flagstaff, AZ.
- 01/25/11 *Public Health Impacts of Antibiotic Use in Food Animal Production: beyond the traditional foodborne pathogens.* Managing the Risk of Foodborne Hazards: STECs and Antibiotic-Resistant Pathogen Conference. Washington, DC.
- 11/09/10 *Guess Who's Coming to Dinner? What is Being Detected in Meat and Produce.* Pew Scholars Program 25th Anniversary Reunion, Science and Society Session. Duck Key, FL.

- 11/10/10 *Prevalence of high-priority antibiotic resistant bacteria in the US food supply.* 2010 APHA Annual Meeting and Exposition. Denver, CO.
- 09/21/10 *The Penis Microbiome: Uncovering the Impacts of Circumcision.* National Cancer Institute Meeting on the Human Microbiome and Cancer. Rockville, MD.
- 09/14/10 *Multidrug Resistant Staphylococcus aureus from Food Animals: whole genome sequence analysis of clonal complex 398.* Arrowhead Conference Microbial Genomics Conference. Lake Arrowhead, CA.

FUNDING

- Current National Institutes of Health (NIAID)
Genital Anaerobes, Inflammation and HIV Risk; Rakai
- Principle Investigator (MPI)
 - \$2,482,925
- Current United States Army Medical Research and Materiel Command
Colonization and extraintestinal infection with multidrug resistant E. coli: identifying community reservoirs
- Principle Investigator
 - \$1,049,000
- Current United States Army Medical Research and Materiel Command
Prospective Molecular Characterization of Burn Wound Colonization: Novel Tools and Analysis
- Principle Investigator
 - \$1,015,000
- Current National Institutes of Health (NIAID/NIDCR)
Microbial ecology in the Chronic Rhinosinusitis Microbiome
- Co-Investigator
 - \$484,888
- Current National Science Foundation
Collaborative Research: A New Paradigm for Understanding How Leaf Litter Quality Affects Stream Ecosystems
- Co-Principal Investigator
 - \$151,207 (TGen)
- Current Canadian Institute of Health Research
Defining the Clinical and Immune Causes of Disproportionately High HIV Levels in Semen
- Co-Investigator
 - \$160,000 (TGen)
- Current National Science Foundation
Collaborative Research, Dimensions: Microbial Biodiversity of Carbon Mineralization-Interactions
- Co-Investigator
 - \$500,000
- Pending United States Department of Agriculture
Staphylococcus aureus: Is Raw Meat a Risk Factor for Colonization and Infection
- Co-Investigator

- \$48,748 (TGen)
- Pending National Institutes of Health (NIAID)
Rapid emergence of livestock-associated MRSA ST398: host-adaptation & virulence
- Principal Investigator
 - \$3,673,556
- Pending National Science Foundation
The impact of intensive livestock production on the disease ecology of antibiotic resistant staphylococcus
- Co-Investigator
 - \$751,118 (TGen)
- Completed United States Army Medical Research and Materiel Command
Genomic Analysis of Complex Microbial Communities in Wounds
- Principle Investigator
 - \$1,867,000
- Completed The National Food Institute at the Technical University of Denmark (DTU)
Whole Genome Sequencing of Food Borne Pathogens
- Principal Investigator (sub-contractor)
 - \$100,000
- Completed The Pew Charitable Trusts
Antibiotic Resistant Pathogens on Meat and Poultry
- Principal Investigator
 - \$290,000
- Completed The Johns Hopkins Center for Livable Future
Johns Hopkins Center for a Livable Future Student and Faculty Innovation Grant '93, '94, & '95
- Principal Investigator
 - \$58,000 (total of three consecutive awards)

PUBLICATIONS

Peer-Reviewed Manuscripts

Nordstrom L, Liu CM, and **Price LB**. Foodborne urinary tract infections (FUTIs): a new paradigm for antimicrobial-resistant foodborne illness. *Front Microbiol.* 2013;4:29. PMID: PMC3589730

Johnson JR, Tchesnokova V, Johnston B, Clabots C, Roberts PL, Billig M, Riddell K, Rogers P, Qin X, Butler-Wu S, **Price LB**, Aziz M, Nicolas-Chanoine MH, Debroy C, Robicsek A, Hansen G, Urban C, Platell J, Trott D, Zhanel G, Weissman SJ, Cookson BT, Fang FC, Limaye A, Scholes D, Chattopadhyay S, Hooper DC, Sokurenko EV. Abrupt Emergence of a Single Dominant Multi-Drug-Resistant Strain of *Escherichia coli*. *J Infect Dis.* 2013 Jan 3. doi: 10.1093/infdis/jis933. PubMed PMID: 23288927

Paul S, Linardopoulou EV, Billig M, Tchesnokova V, **Price LB**, Johnson JR, Chattopadhyay S, Sokurenko EV. Role of Homologous Recombination in Adaptive Diversification of Extraintestinal *Escherichia coli*. *J Bacteriol.* 2013 Jan;195(2):231-42. doi: 10.1128/JB.01524-12.

Muller EE, Pinel N, Gillice JD, Schupp JM, **Price LB**, Engelthaler DM, Levantesi C, Tandoi V, Luong K, Baliga NS, Korfach J, Keim PS, Wilmes P. Genome sequence of "Candidatus *Microthrix parvicella*" Bio17-1, a long-chain-

fatty-acid-accumulating filamentous actinobacterium from a biological wastewater treatment plant. *J Bacteriol.* 2012 Dec;194(23):6670-1. doi: 10.1128/JB.01765-12.

Liu CM, Kachur S, Dwan MG, Abraham AG, Aziz M, Hsu P, Huang Y, Busch J, Lamit LJ, Gehring CA, Keim P and **Price LB**. FungiQuant: A broad-coverage fungal quantitative real-time PCR assay. *BMC Microbiol.* 2012 Nov 8;12(1):255.

Peterson AE, Davis MF, Awantang G, Julian KG, Greene WH, Doppalapudi A, **Price LB**, Waters A, Krain LJ, Nelson LJ, Silbergeld EK, Whitener CJ. Molecular and phenotypic characteristics of health care- and community-associated methicillin-resistant *Staphylococcus aureus* (MRSA) at a tertiary care center in Pennsylvania, 2009-2010. *PLoS ONE.* 2012;7(6):e38354. doi: 10.1371/journal.pone.0038354.

Foster JT, **Price LB**, Beckstrom-Sternberg SM, Pearson T, Brown WD, Kiesling DM, Allen CA, Liu CM, Beckstrom-Sternberg JS, Roberto FF, and Keim PS. Genotyping of *Brucella* species using clade specific SNPs. *BMC Microbiol.* 2012 Jun 19;12:110.

Liu CM, Aziz M, Kachur S, Watson L, Hsueh P, Huang YT, Keim P, **Price LB**. AllBactQuant: An enhanced broad-coverage bacterial quantitative real-time PCR assay targeting the 16S rRNA gene. *BMC Microbiol.* 2012 Apr 17;12(1):56. <http://www.ncbi.nlm.nih.gov/pubmed/22510143>

Stegger M, **Price LB**, Larsen A, Gillece JG, Waters AE, Skov R, and Andersen PS. Genome Sequence of *Staphylococcus aureus* Strain 11819-97, an ST80-IV European Community-Acquired Methicillin-Resistant isolate. *J. Bacteriol.* 2012. Mar;194(6):1625-6. <http://www.ncbi.nlm.nih.gov/pubmed/22374956>

Price LB, Stegger M, Hasman H, Aziz M, Larsen J, Andersen PS, Pearson T, Waters AE, Foster JT, Schupp J, Gillece JG, Driebe E, Liu CM, Springer B, Zdovc I, Battisti A, Franco AF, Źmudzki J, Schwarz S, Butaye P, Jouy E, Pomba C, Porrero C, Ruimy R, Smith TC, Robinson A, Weese S, Arriola CS, Yu F, Laurent F, Keim P, Skov R, and Aarestrup F. *Staphylococcus aureus* CC398: host adaptation and emergence of methicillin resistance in livestock. *MBio.* 2012 Feb 21;3(1). pii: e00305-11. <http://www.ncbi.nlm.nih.gov/pubmed/22354957>

Davis MF, Baron P, **Price LB**, Williams D, Jeyaseelan S, Hambleton I, Diette GB, Breyse PN, McCormack MC. Dry collection and culture methods for recovery of methicillin-susceptible and methicillin-resistant *Staphylococcus aureus* from indoor home environments. *Appl Environ Microbiol.* 2012 Jan 27. <http://www.ncbi.nlm.nih.gov/pubmed/22286979>

Keim PS, Aarestrup FM, Shakya G, **Price LB**, Hendriksen RS, Engelthaler DM, Pearson T. Reply to "South Asia instead of Nepal may be the origin of the Haitian cholera outbreak strain". *MBio.* 2011 Nov 1;2(6):e00245-11. doi: 10.1128/mBio.00245-11. <http://www.ncbi.nlm.nih.gov/pubmed/22045990>

Engelthaler DM, Bowers J, Schupp J, Pearson T, Ginther J, Hornstra HM, Dale J, Stewart T, Komatsu K, Sunenshine R, Waddell V, Levy C, Gillece J, **Price LB**, Contente-Cuomo T, Beckstrom-Sternberg S, Blaney DD, Wagner DM, Mayo M, Currie BJ, Keim PS, Tuanyok A. Molecular investigations of a locally acquired case of melioidosis in Southern AZ. *PLoS Negl Trop Dis.* 2011 Oct;5(10):e1347. <http://www.ncbi.nlm.nih.gov/pubmed/22028940>

Hendriksen RS, **Price LB**, Schupp J, Gillece J, Kaas RS, Engelthaler DM, Bortolaia V, Upadhyay BP, Pearson P, Waters AE, Shrestha SD, Adhikari S, Shakya G, Keim PS, Aarestrup FM. Population genetics of *Vibrio cholerae* from Nepal, year 2010: An identical clone in Nepal and the Haiti outbreak. *MBio.* 2011 2(4): doi:10.1128/mBio.00157-11. <http://www.ncbi.nlm.nih.gov/pubmed/21862630>

Liu CM, Cosetti MK, Aziz M, Buchhagen JL, Contente-Cuomo TL, **Price LB**, Keim PS, Lalwani AK. The Otologic Microbiome: A study of the bacterial microbiota in a pediatric patient with chronic serous otitis media using 16S

rRNA gene-based pyrosequencing. *Arch Otolaryngo Head Neck Surg.* 2011. Jul;137(7):664-8.
<http://www.ncbi.nlm.nih.gov/pubmed/21768410>

Davis MF, **Price LB**, Liu CM, Silbergeld E. An ecological perspective on U.S. industrial poultry production: the role of anthropogenic ecosystems on the emergence of drug-resistant bacteria from agricultural environments. *Current Opinions in Microbiology.* 2011. Curr Opin Microbiol. 2011 Jun;14(3):244-50.
<http://www.ncbi.nlm.nih.gov/pubmed/21621451>

Waters A, Contente-Cuomo T, Buchhagen J, Liu CM, Watson L, Pearce K, Foster JT, Bowers J, Driebe E, Engelthaler D, Keim PS, **Price LB**. Multidrug Resistant *Staphylococcus aureus* in US Meat and Poultry: Evidence for animal origins. *Clin Infect Dis.* 2011; 52(10):1227-30. <http://www.ncbi.nlm.nih.gov/pubmed/21498385>

Hardy CG, Leila Lackey LG, Cannon J, **Price LB**, and Silbergeld EK. Prevalence of potentially neuropathic *Campylobacter jejuni* strains on commercial broiler chicken products. *Int J Food Microbiol.* 2011; 145:395-9.
<http://www.ncbi.nlm.nih.gov/pubmed/21295368>

Melendez JH, Frankel YM, An AT, Williams L, **Price LB**, Wang NY, Lazarus GS, and Zenilman JM. Real-Time PCR Assays compared to Culture-Based Approaches for Identification of Aerobic Bacteria in Chronic Wounds. *Clin Microbiol Infect.* 2010; 16:1762-9. <http://www.ncbi.nlm.nih.gov/pubmed/21077984>

Price LB, Liu CM, Frankel YM, Melendez JH, Aziz M, Buchhagen J, Contente-Cuomo T, Engelthaler DM, Keim PS, Ravel J, Lazarus GS, and Zenilman JM. Macro-scale spatial variation in chronic wound microbiota: a cross-sectional study. *Wound Repair Regen.* 2011; 19(1):80-8. <http://www.ncbi.nlm.nih.gov/pubmed/20946140>

Chen PE, Willner KM, Butani A, Dorsey S, George M, Stewart A, Lentz SM, Cook CE, Akmal A, **Price LB**, Keim PS, Mateczun A, Brahmhatt TN, Bishop-Lilly KA, Zwick ME, Read TD, Sozhamannan S. Rapid identification of genetic modifications in *Bacillus anthracis* using whole genome draft sequences generated by 454 pyrosequencing. *PLoS ONE.* 2010; 5(8):e12397. <http://www.ncbi.nlm.nih.gov/pubmed/20811637>

Silbergeld E, Davis M, Feingold B, Goldberg A, Graham J, Leibler J, Peterson A, **Price LB**. New infectious diseases and industrial food animal production. *Emerg Infect Dis.* 2010; 16:1503.
<http://www.ncbi.nlm.nih.gov/pubmed/20735951>

Wagner DM, Runberg J, Vogler AJ, Lee J, Driebe E, **Price LB**, Engelthaler DM, Fricke WF, Ravel J, Keim P. No resistance plasmid in *Yersinia pestis*, North America. *Emerg Infect Dis.* 2010; 16:885-7.
<http://www.ncbi.nlm.nih.gov/pubmed/20409397>

Price LB, Liu CM, Johnson KE, Aziz M, Lau MK, Bowers J, Ravel J, Keim PS, Serwadda D, Wawer MJ and Gray RH. The effects of circumcision on the penis microbiome. *PLoS ONE.* 2010; 5(1):e8422.
<http://www.ncbi.nlm.nih.gov/pubmed/20066050>

Frankel YM, Melendez JH, Wang N, **Price LB**, Zenilman JM, Lazarus GS. Wound microbial flora: molecular microbiology unlocks new horizons. *Arch Dermatol.* 2009; 145:1193-5.
<http://www.ncbi.nlm.nih.gov/pubmed/19841413>

Price LB, Liu CM, Melendez JH, Frankel YM, Engelthaler D, Aziz M, Bowers J, Rattray R, Ravel J, Kingsley C, Keim PS, Lazarus GS, Zenilman JM. Community analysis of chronic wound bacteria using 16S rRNA gene-based pyrosequencing: impact of diabetes and antibiotics on chronic wound microbiota. *PLoS One.* 2009; 31:e6462.
<http://www.ncbi.nlm.nih.gov/pubmed/19649281>

- Graham JP, Evans SL, **Price LB**, Silbergeld. Fate of antimicrobial-resistant enterococci and staphylococci and resistance determinants in stored poultry litter. *Environ Res.* 2009; 109:682-9. <http://www.ncbi.nlm.nih.gov/pubmed/19541298>
- Vogler AJ, Birdsell D, **Price LB**, Bowers JR, et al. Phylogeography of *Francisella tularensis*: Global Expansion of a Highly Fit Clone. *J Bacteriol.* 2009; 191:2474-84. <http://www.ncbi.nlm.nih.gov/pubmed/19251856>
- Graham JP, **Price LB**, Evans SL, Graczyk TK, Silbergeld EK. Antibiotic resistant enterococci and staphylococci isolated from flies collected near confined poultry feeding operations. *Sci Total Environ.* 2009; 407:2701-10. <http://www.ncbi.nlm.nih.gov/pubmed/19157515>
- Graham, JP, Tuchmann JL, **Price LB**, Otte JM, Pfeiffer DU, Tiensin T, and Silbergeld EK. The Animal:Human Interface and Infectious Disease in Industrial Food Animal Production: Rethinking Biosecurity and Biocontainment. *Public Health Reports.* 2008; 123:282-299. <http://www.ncbi.nlm.nih.gov/pubmed/19006971>
- Silbergeld EK, Graham J, and **Price LB**. Industrial Food Animal Production, Antimicrobial Resistance, and Human Health. *Annu. Rev. Public Health.* 2008; 29:151-69. <http://www.ncbi.nlm.nih.gov/pubmed/18348709>
- Price LB**, Graham JP, Lackey L, Roess A, and Silbergeld E. Elevated risk of carrying gentamicin-resistant *Escherichia coli* among US poultry workers. *Environ Health Perspect.* 2007; 115:1738-1742. <http://www.ncbi.nlm.nih.gov/pubmed/18087592>
- Price LB**, Lackey L, Vailes R and Silbergeld E. 2007. The persistence of fluoroquinolone-resistant *Campylobacter* in poultry production. *Environ Health Perspect.* 115:1035-1039. <http://www.ncbi.nlm.nih.gov/pubmed/17637919>
- Price LB**, Roess A, Graham JP, Baqar S, Vailes R, Sheikh KA, and Silbergeld E. Neurologic symptoms and neuropathologic antibodies in poultry workers exposed to *Campylobacter jejuni*. *J Occ Environ Med.* 2007; 49:748-55. <http://www.ncbi.nlm.nih.gov/pubmed/17622847>
- Chapin Sapkota AR, **Price LB**, Silbergeld EK and Schwab KJ. Arsenic Resistance in *Campylobacter* spp. Isolated from Retail Poultry Products. *Appl Environ Microbiol.* 2006; 72:3069-7. <http://www.ncbi.nlm.nih.gov/pubmed/16598022>
- Nachman, KE, Graham JP, **Price LB** and Silbergeld EK. Arsenic: a roadblock to potential animal waste management solutions. *Environ Health Perspect.* 2005; 113:1123-4. <http://www.ncbi.nlm.nih.gov/pubmed/16140615>
- Price LB**, Johnson E, Vailes R and Silbergeld E. Fluoroquinolone resistant *Campylobacter* from antibiotic-free and conventional poultry products. *Environ Health Perspect.* 2005; 113:557-60. <http://www.ncbi.nlm.nih.gov/pubmed/15866763>
- Price LB**, Vogler A, Pearson T, Busch JD, Schupp JM and Keim P. In Vitro Selection and Characterization of *Bacillus anthracis* Mutants with High-Level Resistance to Ciprofloxacin. *Antimicrob. and Chemother.* 2003; 47:2362-2365. <http://www.ncbi.nlm.nih.gov/pubmed/12821500>
- Klevytska, AM, **Price LB**, Schupp JM, Worsham P, Wong J and Keim P. Identification and characterization of variable-number tandem repeats in the *Yersinia pestis* genome. *J. Clin. Microbiol.* 2001; 39:3179-3185. <http://www.ncbi.nlm.nih.gov/pubmed/11526147>

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Smith KL, DeVos V, Bryden H, **Price LB**, Hugh-Jones ME and Keim P. *Bacillus anthracis* diversity in Kruger National Park. *J. Clin. Microbiol.* 2000; 38:3780-3784. <http://www.ncbi.nlm.nih.gov/pubmed/11015402>

Price LB and Shand RF. Halocin S8: A 36 amino acid haloarchaeal microhalocin. *J. Bacteriol.* 2000; 182:4951-4958. <http://www.ncbi.nlm.nih.gov/pubmed/10940040>

Schupp JM, Klevytska AM, **Price LB**, Zinser G and Keim P. *VrrB*: A hypervariable ORF in *Bacillus anthracis*. *J. Bacteriol.* 2000; 182:3989-3997. <http://www.ncbi.nlm.nih.gov/pubmed/10869077>

Keim P, **Price LB**, Klevytska AM, Smith KL, Schupp JM, Okinaka R, Jackson P and Hugh-Jones ME. Multiple-Locus VNTR analysis (MLVA) reveals genetic relationships within *Bacillus anthracis*. *J. Bacteriol.* 2000; 182:2928-2936. <http://www.ncbi.nlm.nih.gov/pubmed/10781564>

Keim P, Klevytska AM, **Price LB**, Schupp JM, Zinser G, Smith KL, Hugh-Jones ME, Okinaka R, Hill KK and Jackson PJ. Molecular diversity in *Bacillus anthracis*. *J. Appl. Microbiol.* 1999; 87:215-7.

<http://www.ncbi.nlm.nih.gov/pubmed/10475952>

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