**Tara C. Smith, PhD**

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## I. EDUCATIONAL & PROFESSIONAL HISTORY

**Education and Degrees**

2012 Certificate in Agricultural Safety and Health, University of Iowa College of Public Health

2002 PhD, University of Toledo College of Medicine (Microbiology)

1998 BS, Yale University (Biology)

**Professional Experience and Academic Positions**

2018-present **Senior Scientist,** Akron Children’s Hospital Rebecca D. Considine Research Institute

2016-present **Director**, Center for Public Health Research and Communication, Kent State University College of Public Health

2017-present **Professor**, Kent State University College of Public Health

2013-2017 **Associate Professor**, Kent State University College of Public Health, Department of Biostatistics, Environmental Health Sciences, & Epidemiology

2013-2016 **Adjunct Associate Professor**, University of Iowa, Department of Epidemiology

2005-2013 **Deputy Director (2005-2011) or Co-Director (2011-2013)**, University of Iowa Center for Emerging Infectious Diseases

2012-2013 **Associate Professor**, University of Iowa College of Public Health, Department of Epidemiology

2005-2012 **Assistant Professor**, University of Iowa College of Public Health, Department of Epidemiology

2002-2004 **Postdoctoral Fellow**, University of Michigan School of Public Health

**Honors, Awards, Recognitions, Outstanding Achievements**

2015-2017 American Society for Microbiology Distinguished Lecturer

2015 Kent State University’s Scholar of the Month, May 2015

2007 Nominee, University of Iowa President’s Award for State Outreach and Public Engagement

2003-2004 Interdisciplinary Program in Infectious Disease (IPID) fellowship, University of Michigan

2001 Liberato DiDio Award for Excellence in Graduate Research, Medical College of Ohio Student Research Forum

2001 Donald C. Cox Award for Excellence in Graduate Research, O.B.A.S.M. Meeting

2001-2002 National Institutes of Health Molecular Pathogenesis of Cancer Grant Trainee

1999-2002 University of Toledo Graduate Student Fellowship

**II. SCHOLARSHIP**

**Peer-reviewed Publications**

**79. Smith TC,** Thapaliya D, Bhatta S, Mackey S, Engohang-Ndong J, Carrel M. [Geographic distribution of livestock-associated *Staphylococcus aureus* in the United States](https://www.sciencedirect.com/science/article/pii/S1286457918301102). Microbes and Infection, in press, 2018.

Contribution: Led study design, led writing/editing manuscript, led overall direction of project.

**78.** Hanson BM, Kates AE, O’Malley SM, Mills E, Herwaldt LA, Farina SA, Klostermann C, Wu JY, Quick MK, Forshey BM, **Smith TC**. Prevalence and characterization of *Staphylococcus aureus* in the nares and oropharynx of healthy individuals from 95 families in Iowa, USA. Epidemiology and Infection, in press, 2018.

Contribution: Led study design, assisted with writing/editing manuscript, led overall direction of project.

**77.** Thapaliya D, Kadariya J, Capuano M, Rush H, Yee C, Oet M, Lohani S, **Smith TC**. [Prevalence and Molecular Characterization of *S. aureus* and MRSA on Children's Playgrounds.](https://insights.ovid.com/pubmed?pmid=29746375) Pediatric Infectious Disease Journal, in press, 2018.

Contribution: Assisted with study design, assisted with writing/editing manuscript, co-led overall direction of project.

**76.** Kates A, **Smith TC**, Chorazy M. [Prevalence and Molecular Characterization of *Staphylococcus aureus* from Human Stool Samples](https://aricjournal.biomedcentral.com/articles/10.1186/s13756-018-0331-3). Antimicrobial Resistance and Infection Control, in press, 2018.

Contribution: Led study design, assisted with writing/editing manuscript, co-led overall direction of project.

**75. Smith TC,** Hellwig EJ, Wardyn SE, Kates AE, Thapaliya D. [Longitudinal study of *Staphylococcus aureus* colonization and infection in a cohort of rural Iowans](http://online.liebertpub.com/doi/abs/10.1089/mdr.2017.0124). Microbial Drug Resistance, in press, 2018.

Contribution: Led study design, led writing/editing manuscript, assisted with overall direction of project.

**74.** Thapaliya D, Hellwig EJ, Kadariya J, Grenier D, Jefferson AJ, Dalman M, Kennedy K, DiPerna M, Orihill A, Taha M, **Smith TC**. [Prevalence and characterization of *Staphylococcus aureus* and methicillin-resistant *Staphylococcus aureus* (MRSA) on public recreational beaches in Northeast Ohio](http://onlinelibrary.wiley.com/wol1/doi/10.1002/2017GH000106/abstract). GeoHealth, 1(10):320-332, 2017.

Contribution: Led study design, led writing/editing manuscript, assisted with overall direction of project.

**73. Smith TC.** [Medicine in the antibiotic apocalypse: a review of Surgeon X](http://www.asmscience.org/content/journal/jmbe/10.1128/jmbe.v18i3.1349). Journal of Microbiology and Biology Education, in press, 2017.

Contribution: Assembled materials for review, wrote manuscript.

**72.** Nworie A, Azi SO, Okekpa SI, Elom MO, Umoh NO, Usanga VU, Ibiam GA, Ukwah BN, Nwadi LC, Ezeruigbo C, Olayinka BO, Ehinmidu JO, Onalopo JA, Hanson BM, Wardyn SE, **Smith TC**. [A Novel Methicillin-resistant *Staphylococcus aureus* t11469 and a Poultry Endemic Strain t002 (ST5) is Present in Chicken in Ebonyi State, Nigeria](https://www.hindawi.com/journals/bmri/2017/2936461/). Biomedical Research International, 2017:2936461. doi: 10.1155/2017/2936461

Contribution: Led study design, led writing/editing manuscript, assisted with overall direction of project.

**71.** Wardyn SE, Stegger M, Price LB, **Smith TC**. [Whole genome analysis of recurrent *Staphylococcus aureus* t571/ST398 infection in an Iowa Farmer](https://wwwnc.cdc.gov/eid/article/24/1/16-1184_article). Emerging Infectious Diseases, 24(1):153-154, 2018.

Contribution: Led study design, led writing/editing manuscript, led overall direction of project.

**70.** Carrel M, Zhao C, Thapaliya D, Bitterman P, Kates AE, Hanson BM, **Smith TC.** [Assessing the potential for raw meat to influence human colonization with *Staphylococcus aureus*](https://www.nature.com/articles/s41598-017-11423-6.epdf?author_access_token=K95kXUboKY_L2o3ozC308NRgN0jAjWel9jnR3ZoTv0Ny9TPx-mt16KFjH4dh7BAf62oLACTS-18-HmNYhx1thukH5-t7srFTEuRIUT7XU50SE2_RX4PEui2ObOHgWPQQdo9DILTi8QtV0Y339MMobw%3D%3D). Scientific Reports, in press, 2017.

Contribution: Led study design, assisted with writing/editing manuscript, co-led overall direction of project.

**69**. **Smith TC**. [Industrializing Animals](http://blogs.sciencemag.org/books/2017/09/25/big-chicken/). Science, in press, 2017.

Contribution: Assembled materials for review, wrote manuscript.

**68.** Nachman K, Lam J, Schinasi L, **Smith TC**, Feingold B, Casey J. [O’Connor et al. systematic review regarding animal feeding operations and public health: critical flaws may compromise conclusions](https://systematicreviewsjournal.biomedcentral.com/articles/10.1186/s13643-017-0575-7). Systematic Reviews, 6(1):179, 2017.

Contribution: Assisted with writing/editing manuscript.

**67. Smith TC.** [Vaccine rejection and hesitancy: a review and call to action](https://academic.oup.com/ofid/article/doi/10.1093/ofid/ofx146/3978712/Vaccine-rejection-and-hesitancy-a-review-and-call). Open Forum Infectious Diseases, in press, 2017.

Contribution: Assembled articles for review, wrote manuscript.

**66.** Thapaliya D, Taha M, Dalman MR, Kadariya J, **Smith TC.** [Environmental contamination with *Staphylococcus aureus* at a large, Midwestern university campus.](http://www.sciencedirect.com/science/article/pii/S074000201630510X) Science of the Total Environment, in press, 2017.

Contribution: Led study design, assisted with writing/editing manuscript, led overall direction of project.

**65.** Thapaliya D, Dalman M, Kadariya J, Little K, Mansell V, Taha MY, Grenier D, **Smith TC**. [Prevalence and Characterization of *Staphylococcus aureus* in Geese Feces Collected from State Parks in Northeast Ohio](https://link.springer.com/article/10.1007%2Fs10393-017-1227-z). EcoHealth, 14(2):303-309, 2017.

Contribution: Led study design, assisted with writing/editing manuscript, led overall direction of project.

**64.** Thapaliya D, Forshey BM, Quick MK, Farina SE, O’Brien A, Nair R, Nworie A, Hanson BM, Kates A, Wardyn SE, **Smith TC.** [Prevalence and Molecular Characterization of *Staphylococcus aureus* in Commercially Available Meat over a One-Year Period in Iowa, USA](http://www.sciencedirect.com/science/article/pii/S074000201630510X). Food Microbiology, 65:122-9, 2017.

Contribution: Led study design, assisted with writing/editing manuscript, led overall direction of project.

**63.** Watkins RR, **Smith TC**, Bonomo RA. [On the Path to Untreatable Infections: Colistin Use in Agriculture and the End of “Last Resort” Antibiotics](http://www.tandfonline.com/doi/pdf/10.1080/14787210.2016.1216314). Expert Review of Anti-Infective Therapy, 14(9):785-8, 2016.

Contribution: Assisted with drafting and editing manuscript.

**62.** Nair R, Wu J; Carrel M; O’Brien A; Quick M; Farina S; Wardyn S; Thapaliya D; Grenier D; **Smith TC**. [Prospective multicenter surveillance for *Staphylococcus aureus* infections, 2011-2013](http://www.sciencedirect.com/science/article/pii/S0732889316300931). Diagnostic Microbiology and Infectious Diseases, 85(3):360-366, 2016.

Contribution: Led study design, assisted with laboratory work and analysis, assisted with writing/editing manuscript, led overall direction of project.

**61.** Butaye P, Argudín MA, **Smith TC**. [Livestock-associated MRSA and its current evolution](http://link.springer.com/article/10.1007/s40588-016-0031-9?wt_mc=internal.event.1.SEM.ArticleAuthorOnlineFirst). Current Clinical Microbiology Reports, 3(1):19-31, 2016.

Contribution: Assisted with drafting and editing manuscript.

**60**. Lofgren E, Collins KM, **Smith TC**, Cartwright RC. [Equations of the End: Teaching Mathematical Modeling using the Zombie Apocalypse](http://www.asmscience.org/content/journal/jmbe/10.1128/jmbe.v17i1.1066). Journal of Microbiology and Biology Education, 17 (1): 137-142, 2016.

Contribution: Assisted with drafting and editing manuscript.

**59**. McDanel JS, Perencevich EN, Diekema DJ, Winokur PL, Johnson JK, Herwaldt LA, **Smith TC**, Chrischilles EA, Dawson JD, Schweizer ML. [Association between microbial characteristics and poor outcomes among patients with methicillin-resistant *Staphylococcus aureus* pneumonia: a retrospective cohort study](http://www.aricjournal.com/content/4/1/51). Antimicrob Resist Infect Control, 4:51, 2015.

Contribution: Provided feedback on study design and manuscript, assisted with editing manuscript.

**58**. **Smith TC.** [Zombie infections: epidemiology, treatment, and prevention](http://www.bmj.com/content/351/bmj.h6423.full). BMJ, 351:h6423​, 2015.

Contribution: Assembled articles for review, wrote manuscript.

**57. Smith, TC**. [Ebola as a course: uniting basic sciences, public health, and the humanities](http://jpubhealth.oxfordjournals.org/content/early/2015/10/29/pubmed.fdv165.abstract). Journal of Public Health, in press, 2016. doi: 10.1093/pubmed/fdv165

Contribution: Assembled articles for review, wrote manuscript.

**56**. Ferguson DD, **Smith TC**, Hanson BM, Wardyn SE, Donham K. [Detection of airborne methicillin-resistant *Staphylococcus aureus* inside and downwind of a swine building, and in animal feed: Potential occupational, animal health, and environmental implications](http://www.tandfonline.com/eprint/m68PstMKF4Mrd7WmsxkW/full). Journal of Agromedicine, 21(2):149-153, 2016.

Contribution: Provided feedback on study design and manuscript, assisted with editing manuscript.

**55**. Ferguson DD, Donham K, **Smith TC**, Hoff SJ. [The efficiency of biofilters at mitigating airborne MRSA dispersion from a swine nursery facility](http://lib.dr.iastate.edu/cgi/viewcontent.cgi?article=1942&context=abe_eng_pubs). Journal of Agricultural Safety and Health, 21(4): 217-227, 2015.

Contribution: Assisted with study design, assisted with laboratory work and analysis, assisted with writing/editing manuscript, co-led overall direction of project.

**54.** Thapaliya D, O’Brien A, Wardyn SE, **Smith TC**. [Epidemiology of necrotizing infection caused by *Staphylococcus aureus* and *Streptococcus pyogenes* at an Iowa hospital.](https://www.ncbi.nlm.nih.gov/pubmed/26163423). Journal of Infection and Public Health*,* 8:634-641, 2015.

Contribution: Led study design, assisted with laboratory work and analysis, assisted with writing/editing manuscript, led overall direction of project

**53.** McDanel JS, Diekema DJ, Perencevich EN, Winokur PL, Johnson KJ, Herwaldt LA, **Smith TC**, Chrischilles EA, Dawson JD, Schweizer ML. [Comparative effectiveness of beta-lactams versus vancomycin for treatment of methicillin-susceptible *Staphylococcus aureus* bloodstream infections among 122 hospitals.](https://www.ncbi.nlm.nih.gov/pubmed/25900170) Clinical Infectious Diseases, 61(1):59-66, 2015.

Contribution: Provided feedback on study design and manuscript, assisted with editing manuscript.

**52.** Eko K, Foshey B, Carrel M, Perencevich E, Schweizer M, **Smith TC**. [Molecular characterization of hospital and community-associated methicillin-resistant *Staphylococcus aureus* (MRSA) in a Veterans Affairs Hospital](http://www.aricjournal.com/content/4/1/10). Antimicrobial Resistance and Infection Control, 4:10, 2015.

Contribution: Led study design, assisted with writing/editing manuscript, led overall direction of project.

**51.** Wardyn SE, Forshey BM, Farina S, Kates AE, Nair R, Quick M, Wu J, Hanson BM, O’Malley S, Shows H, Heywood E, Beane-Freeman LE, Lynch CF, Carrel M, **Smith TC**. [Swine farming is a risk factor for infection with and high prevalence of multi-drug resistant *Staphylococcus aureus*](http://cid.oxfordjournals.org/cgi/content/full/civ234?). Clinical Infectious Diseases, 61(1):59-66, 2015.

Contribution: Led study design, assisted with writing/editing manuscript, led overall direction of project.

**50**. Moritz ED, Kates AE, Hanson BM, **Smith TC**. [Molecular epidemiology of *Staphylococcus aureus* isolated from employees, children, and environmental surfaces in Iowa daycare facilities](http://www.sciencedirect.com/science/article/pii/S0196655315000644). American Journal of Infection Control, 43(5):482-8, 2015.

Contribution: Led study design, assisted with laboratory work and analysis, assisted with writing/editing manuscript, led overall direction of project.

**49**. **Smith TC,** Wardyn SE**.** [Human infections with *Staphylococcus aureus* CC398](http://link.springer.com/article/10.1007/s40572-014-0034-8?sa_campaign=email/event/articleAuthor/onlineFirst). Current Environmental Health Reports, 2(1):41-51, 2015.

Contribution: Assembled articles for review, wrote manuscript.

**48**. **Smith TC**. [Livestock-associated *Staphylococcus aureus*: the United States experience.](http://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1004564) PLoS Pathogens,11(2): e1004564, 2015.

Contribution: Assembled articles for review, wrote manuscript.

**47**. O’Malley S, Emele FE, Nwaokorie FO, Idika N, Hanson BM, Nair R, Wardyn SE, **Smith TC**. [Molecular Typing of Antibiotic-resistant *Staphylococcus aureus* inNigeria](http://www.sciencedirect.com/science/article/pii/S1876034114001397)**.** Journal of Infection and Public Health, 8:187-193, 2015.

Contribution: Led study design, assisted with writing/editing manuscript, led overall direction of project.

**46**. Ferguson DD, **Smith TC**, Field RW, O’Shaughnessy PT, Donham KJ. [Evaluation of the Filtration Efficiency of the N95 Filtering Facepiece Respirator for Airborne Methicillin-Resistant *Staphylococcus aureus*](http://elibrary.asabe.org/abstract.asp?aid=45121&redir=%5bvolume=20&issue=4&conf=j&orgconf=%5d&redirType=toc_journals.asp&dabs=Y). Journal of Agricultural Safety and Health, 20(4): 255-265, 2014.

Contribution: Provided feedback on study design and manuscript, assisted with editing manuscript.

**45**. Nair R, Thapaliya T; Su Y; **Smith TC**. [Resistance to zinc and cadmium in *Staphylococcus aureus* of human and animal origin](http://www.jstor.org/stable/10.1086/677834). Infection Control and Hospital Epidemiology, 35(S3):S32-39, 2014.

Contribution: Led study design and manuscript, assisted with editing manuscript

**44**. McDanel JS, Ward MA, Leder L, Schweizer ML, Dawson JD, Diekema DJ, **Smith TC**, Chrischilles BA, Perencevich EN, Herwaldt LA. [Methicillin-resistant *Staphylococcus aureus* (MRSA) Prevention Practices in Hospitals throughout a Rural State](http://www.sciencedirect.com/science/article/pii/S0196655314007949). American Journal of Infection Control, 42(8):868-73, 2014.

Contribution: Provided feedback on study design and manuscript, assisted with editing manuscript.

**43**. Huang E, Hanson B, Kates A, **Smith TC**, Pettigrew M, Gurzau A, Rabinowitz P. [Detection of Livestock-Associated Methicillin-Resistant *Staphylococcus aureus* in Swine Workers in Romania](http://www.jiph.org/article/S1876-0341(14)00049-5/abstract). Journal of Infection and Public Health, 7(4):323-332, 2014.

Contribution: Assisted with molecular analyses and results; assisted with writing and editing manuscript.

**42**. Kadariya J, **Smith TC**, Thapaliya D.[*Staphylococcus aureus* and Staphylococcal Food – Borne Disease: An Ongoing Challenge in Public Health](http://www.hindawi.com/journals/bmri/2014/827965/). BioMed Research International, vol. 2014, Article ID 827965, 2014.

Contribution: assisted with writing and editing manuscript.

**41.** Abdelbary M, Wittenberg A, Cuny C, Layer F, Kurt K, Wiegler L, Walther B, Skov R, Larsen J, Hasman H, Fitzgerald JR, **Smith TC**, Wagenaar JA, Pantosti A, Hallin M, Struelens MJ, Nurnus U, Nubel U, Witte W. [Phylogenetic analysis of *Staphylococcus aureus* CC398 reveals a sub-lineage epidemiologically associated with infections in horses](http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0088083). PLoS ONE, 9(2): e88083, 2014.

Contribution: Provided strains for analyses, assisted with writing and editing manuscript.

**40.** Wardyn SE, **Smith TC**. [False positives and negatives using PCR-based identification of *Staphylococcus aureus* clonal complex 398](http://jcm.asm.org/content/early/2013/11/07/JCM.03090-13.long). Journal of Clinical Microbiology, 52(2):701-2, 2014.

Contribution: Assisted with study conception and design, assisted with writing and editing manuscript.

**39.** Carrel M, Schweizer ML, Sarazin MV, Smith TC, Perencevich EN. [Residential Proximity to Large Numbers of Swine in Feeding Operations Is Associated with Increased Risk of Methicillin-Resistant Staphylococcus aureus Colonization at Time of Hospital Admission in Rural Iowa Veterans](http://www.jstor.org/discover/10.1086/674860?uid=3739256&uid=2134&uid=2&uid=70&uid=4&sid=21103279111421). Infect Control Hosp Epidemiol 35(2), 2014.

Contribution: Assisted with study conception and design, assisted with writing and editing manuscript.

**38.** Nair R, Hanson BM, Kondratowicz K, Dorjpurev A, Davaadash B, Battumur E, Tundev O, **Smith TC**. [Molecular epidemiology of *Staphylococcus aureus* in Ulanbaatar, Mongolia](https://peerj.com/articles/176.pdf). PeerJ 1:e176, 2013.

Contribution: Led study design, assisted with writing/editing manuscript, led overall direction of project.

**37.** Nicholson TL, Shore SM, **Smith TC**, Frana TS. [Livestock-associated MRSA form robust biofilms](http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0073376). PLoS ONE, 8(8): e73376, 2013.

Contribution: Assisted with study design, assisted with writing/editing manuscript.

**36. Smith TC**, GebreyesWA, Abley MA, Bayleyegn M, Harper AL, Forshey BM, MaleMJ, Martin HW, Sreevatsan S, ThakurS, ThiruvengadamM, DaviesPR. [Methicillin-resistant *Staphylococcus aureus* in pigs and farm workers on conventional and antibiotic-free swine farms in the USA](http://www.plosone.org/article/info:doi%2F10.1371%2Fjournal.pone.0063704). PLoS ONE, 8(5):e63704, 2013.

Contribution: Led study design, assisted with laboratory work and analysis, assisted with writing/editing manuscript, led overall direction of project.

**35.** Frana TS, Beahm AR, Hanson BM, Kinyon JM, Layman LL, Karriker L, Ramirez A, **Smith TC**. [Isolation and Characterization of Methicillin-Resistant *Staphylococcus aureus* from Pork Farms and Visiting Veterinary Students](http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0053738). PLoS ONE, 8(1): e53738, 2013.

Contribution: Led molecular typing, assisted with manuscript preparation.

**34**. Moritz E, **Smith TC.** [Risk of *Staphylococcus aureus* carriage in childcare employees](http://journals.cambridge.org/download.php?file=%2FHYG%2FHYG141_09%2FS0950268812002415a.pdf&code=90833349da61fb09954f7b01a59f9543). Epidemiology and Infection, 141:1975-1982, 2013.

Contribution: Assisted with study design, assisted with writing/editing manuscript, led overall direction of project.

**33.** Golding GR, Bryden L, Levett PN, McDonald RR, WongA, Graham MR, Tyler S, Van Domselaar G, Mabon P, Kent H, Butaye P, **Smith TC**, Schwarz S, Weese S, Mulvey MR. [Whole-Genome sequence of “live-stock” associated ST398 methicillin-resistant *Staphylococcus aureus* isolated from humans, Canada](http://jb.asm.org/content/194/23/6627.long). Journal of Bacteriology, 194(23):6627-8 2012.

Contribution: Provided samples and epidemiologic information, assisted with writing/editing manuscript.

**32.** Osadabe L, Hanson BM, **Smith TC**, Heimer R. [Prevalence and Characteristics of *Staphylococcus aureus* in Connecticut swine and swine workers](http://onlinelibrary.wiley.com/doi/10.1111/j.1863-2378.2012.01527.x/abstract). Zoonoses and Public Health, 60(3):234-43, 2013.

Contribution: Assisted with study design, analysis, and laboratory work, assisted with writing/editing manuscript, co-directed overall direction of project.

**31.** Wardyn SE, Kaufmann L, **Smith TC.** [Methicillin-resistant *Staphylococcus aureus* in central Iowa wildlife.](http://www.jwildlifedis.org/content/48/4/1069.long) Journal of Wildlife Diseases, 48:1069-1073, 2012.

Contribution: Led study design, analysis, and laboratory work, assisted with writing/editing manuscript, led overall direction of project.

**30.** Wardyn SE, Forshey B, **Smith TC.** [High prevalence of Panton-Valentine leukocidin among methicillin-sensitive *Staphylococcus aureus* colonization isolates in rural Iowa](http://online.liebertpub.com/doi/abs/10.1089/mdr.2011.0239).Microbial Drug Resistance, 18(4): 427-433, 2012.

Contribution: Led study design, analysis, and laboratory work, assisted with writing/editing manuscript, led overall direction of project.

**29**. Dressler A, Scheibel P, Wardyn S, Harper A, Hanson B, Kroeger J, Diekema D, Bender J, Gray GC, **Smith TC**. [Prevalence, antibiotic resistance, and molecular characterization of *Staphylococcus aureus* in in pigs at agricultural fairs in the USA](http://veterinaryrecord.bmj.com/content/170/19/495.long). Veterinary Record, 170(19):495, 2012.

Contribution: Led study design, analysis, and laboratory work, assisted with writing/editing manuscript, led overall direction of project.

**28.** Leedom Larson KR, Wagstrom EA, Hanson BM, Harper A, Donham K, **Smith TC**. [MRSA in Pork Production Shower Facilities: an Intervention to Reduce Occupational Exposure](http://elibrary.asabe.org/azdez.asp?JID=3&AID=41229&ConfID=j2012&v=18&i=1&T=2&redirType=). Journal of Agricultural Safety and Health, 18:5-9, 2012.

Contribution: Assisted with study design, analysis, and laboratory work, assisted with writing/editing manuscript, led overall direction of project.

**27.** Mediavilla JR, Chen L, Uhlemann A, Rosenthal M, Koll B, Fries B, Schilling ME, Weiss D, Hanson BM, **Smith TC**, Lowy F, Kreiswirth BN. [Human Infection with *Staphylococcus aureus* CC398 in the New York City Region, 2004-2010](http://wwwnc.cdc.gov/eid/article/18/4/11-1419_article.htm). Emerging Infectious Diseases; 18:700-2, 2012.

Contribution: Assisted with analysis and laboratory work, assisted with writing/editing manuscript.

**26.** Price LB, Stegger M, Hasman H, Aziz M, Andersen PS, Pearson A, Waters AE, Foster JT, Schupp J, Gillece J, Driebe E, Liu CM, Larsen J, Springer B, Zdovc I, Battisti A, Franco A, Żmudzki J, Schwarz S, Butaye P, Jouy E, Pomba C, Porrero C, **Smith TC**, Robinson AD, Weese JS, Keim P, Skov R, Aarestrup FM. [*Staphylococcus aureus* CC398: Host Adaptation and Emergence of Methicillin Resistance in Livestock.](http://mbio.asm.org/content/3/1/e00305-11)mBIO, 3(1):e00305-11, 2012.

Contribution: Provided samples and epidemiologic information, assisted with writing/editing manuscript.

**25.** O’Brien AM, Hanson BM, Farina SA, Wu JY, Simmering JE, Wardyn SE, Kulick M, Wallinga DB, **Smith TC**. [MRSA in conventional and alternative retail pork products](http://www.plosone.org/article/info:doi%2F10.1371%2Fjournal.pone.0030092). PLoS ONE, 7(1): e30092, 2012.

Contribution: Led study design, analysis, and laboratory work, assisted with writing/editing manuscript, led overall direction of project.

**24. Smith TC**, Forshey BM, Wardyn SE, Hanson BM, Moritz ED. [Molecular and Epidemiological Predictors of *Staphylococcus aureus* Colonization Site in a Population with Limited Nosocomial Exposure](http://www.sciencedirect.com/science/article/pii/S0196655311013216). American Journal of Infection Control, 40(10):992-6, 2012.

Contribution: Led study design, assisted with analysis, assisted with writing/editing manuscript, led overall direction of project.

**23.** Mendes RE, **Smith TC**, Deshpande LM, Diekema DJ, SaderHS, JonesRN. Plasmid-borne [*vga*(A)-encoding gene in methicillin-resistant *Staphylococcus aureus* ST398 recovered from swine and a swine farmer in the United States](http://www.dmidjournal.com/article/S0732-8893(11)00234-3/abstract). Diagnostic Microbiology and Infectious Diseases, 71:177-80, 2011.

Contribution: assisted in study design, consulted on results, assisted in writing and editing manuscript.

**22.** Moritz ED, **Smith TC**. *Streptococcus pneumoniae* and *Staphylococcus aureus* carriage in child care facilities: A review of the literature. Journal of Epidemiology and Public Health, in press.

Contribution: Assisted in review article selection, edited contribution by other author.

**21.** Hanson B, Harper A, Wardyn S, Roberts L, **Smith TC**. [Prevalence of *Staphylococcus aureus* and methicillin-resistant *Staphylococcus aureus* (MRSA) on retail meat in Iowa](https://www.sciencedirect.com/science/article/pii/S1876034111000475?via%3Dihub). Journal of Infection and Public Health, 4:169-174, 2011.

Contribution: Led study design, analysis, and laboratory work, assisted with writing/editing manuscript, led overall direction of project.

**20**. Harris ML, Massaquoi D, Soyemi K, Brend SM, Klein D, Pentella M, Kraemer J, Nashelsky M, Schmunk G, **Smith TC**, Pleva A. [Recent Iowa Trends in Sudden Unexpected Infant Deaths: the importance of public health collaboration with state medical examiners’ offices](http://www.ncbi.nlm.nih.gov/pubmed/20938328). American Journal of Forensic Medicine and Pathology, 33(2):113-8, 2012.

Contribution: Assisted with study design and analysis, assisted with writing/editing manuscript.

**19.** Daly JM, Levy BT, Ely JW, Swanson K, Bergus GR, Jogerst GJ, **Smith TC**. [Management of Skin and Soft Tissue Infections in Community Practice Before and After Implementing a “Best Practice” Approach: An Iowa Research Network Intervention Study](http://www.jabfm.org/content/24/5/524.short). Journal of the American Board of Family Medicine, 24(5):524-33, 2011.

Contribution: Assisted with study design and analysis, assisted with field work/physician interviews, assisted with writing/editing manuscript.

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Contribution: Assisted with study design and analysis, assisted with field work/physician interviews, assisted with writing/editing manuscript.

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Contribution: Led study design and analysis, advised laboratory work, assisted with writing/editing manuscript, led overall direction of project.

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Contribution: Assembled articles for review, co-wrote manuscript, edited contributions by other contributors, led overall direction of project.

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Contribution: Assembled articles for review, co-wrote manuscript, edited contribution by other author.

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Contribution: Assisted with study analysis, assisted with writing/editing manuscript.

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Contribution: Assembled materials for review, wrote manuscript.

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Contribution: Assembled articles for review, co-wrote manuscript, edited contributions by other authors.

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Contribution: Assembled articles for review, co-wrote manuscript, edited contributions by other authors.

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Contribution: Assembled materials for review, wrote manuscript.

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Contribution: Designed study, carried out experiments, wrote manuscript, led overall direction of project.

**7**. **Smith TC**, Capuano A, Boese B, Myers KP, Gray GC. [Occupational exposure to *Streptococcus suis* among US swine workers*.*](http://wwwnc.cdc.gov/eid/article/14/12/08-0162_article.htm)Emerging Infectious Diseases, 14(12): 1925-7, 2008.

Contribution: Designed study, carried out experiments, wrote manuscript, led overall direction of project.

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Contribution: Assisted with study design, assembled articles for review, wrote manuscript, edited contributions by other authors.

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Contribution: Assembled articles for review, wrote manuscript, edited contribution by other author

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Contribution: Assisted in study design, carried out experiments, wrote manuscript.

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Contribution: Assisted in study design, carried out experiments, wrote manuscript.

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Contribution: Assisted in study design, carried out experiments, wrote manuscript.

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Contribution: Assisted in study design, carried out experiments, wrote manuscript.

**Publications currently under peer review**

**1.** Schoen ME, Peckham TK, Shirai JH, Kissel JC, Thapaliya D, **Smith TC**, Meschke JS. Risk of nasal colonization of methicillin-resistant *Staphylococcus aureus* during preparation of contaminated retail pork meat. Submitted to, May 2017.

**2.** Thapaliya D, Kadariya J, Bhatta S, Mahatara RL, Dhakal N, **Smith TC**. Prevalence and antibiotic susceptibility of coagulase-negative Staphylococci in Bhutanese refugees in Nepal and resettled in Ohio. Submitted to Travel Medicine, May 2017.

**3.** Randad PR, Dillen CC, Ortines RO, Mohr D, Aziz M, Price LB, Carroll KC, **Smith TC**, Miller LS, Heaney CD. Comparison of livestock-associated and community-associated *Staphylococcus aureus* pathogenicity in a mouse model of skin and soft tissue infection. Submitted to Journal of Infectious Diseases, Feb 2018.

**4.** Nworie A, Ukwah BN, Elom MO, Olayinka BO, Onalapo JA, Nair R, Hanson BM, Kates AE, Wardyn SE, Thapilya D, **Smith TC**. Molecular Characterization of Clinical Isolates of *Staphylococcus aureus* and Methicillin Resistant *Staphylococcus aureus* in Ebonyi State, Nigeria. Submitted to Journal of Infection and Public Health, January 2018.

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**6.** ThapaliyaD, WaseS, DagaM, KadariyaJ, QuickMK, FarinaS, O’BrienAM, **Smith TC.** Prevalence and Molecular Characterization of *Staphylococcus aureus* and MRSA in Environmental Samples from Iowa Communities.Submitted to Journal of Antimicrobial Chemotherapy, April 2018.

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**Books**

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**Chapters**

**6.** Hanson B, Kates A, Klostermann C, Nair R, Thapaliya D, Wardyn S, **Smith TC**. Swine zoonoses. In [Zoonoses: Infections affecting men and animals – A focus on public health aspects](http://www.springer.com/us/book/9789401794565), Springer. Sing A, Editor. 2015.

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1. **Smith TC**. Public health, defense, and what will \*really\* make us safer. In: Zivkovic, Bora, ed., [The Open Laboratory: The Best Writing on Science Blogs](http://www.lulu.com/shop/reed-cartwright-editor-and-bora-zivkovic-series-editor/the-open-laboratory-the-best-science-writing-on-blogs-2007/ebook/product-17541007.html). Chapel Hill, NC: Lulu, 2007.

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**53.** SELF magazine,[Why Does It Seem Like Salmonella Is Popping Up in Every Food These Days?](https://www.self.com/story/why-salmonella-is-everywhere-these-days) June 2018.

**52.** Mental Floss, [How are vaccines made?](http://mentalfloss.com/article/529892/how-are-vaccines-made) February 2018.

**51.** SELF magazine, [Getting Your Microbiome Analyzed Probably Won’t Do Anything for Your Health](https://www.self.com/story/getting-your-microbiome-analyzed). February 2018.

**50.** SELF magazine, [“Raw water” isn’t better for you—but it could definitely hurt you.](https://www.self.com/story/raw-water-isnt-better-for-youbut-it-could-definitely-hurt-you) January 2018.

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**5**. Medscape, invited article. [Emerging and Zoonotic Diseases: a Primer for Clinicians,](http://www.medscape.com/viewarticle/817781_2) December 2013.

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**3**. Slate, article. [Nature’s Bioterrorist Agents](http://www.slate.com/articles/health_and_science/medical_examiner/2013/04/the_h7n9_bird_flu_in_china_how_dangerous_is_it.html), April 2013.

**2**. Slate, article. [What’s the world’s most dangerous animal](http://www.slate.com/articles/health_and_science/pandemics/2012/12/origins_of_new_diseases_zoonotic_pandemics_come_from_bats_birds_monkeys.html)? December 2012. *Slate.com’s most-read article of 2012.*

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**Grant Funding**

**Submitted and Pending Research Funding**

**5.** NIAID R01:Microbiome changes during immigration in Nepal and Akron’s Bhutanese immigrants. $2.5M direct costs, 5 years. June 2018.

**4**. AHRQ R01: Epidemiology of Staphylococci in humans and animals: reservoirs of zoonotic resistance genes? $2.5M total costs, 5 years. Resubmission planned October 2018 (NIH NIAID).

**3**. NIH K01 (Mark Dalman, PI; Smith, mentor). Investigating *Staphylococcus aureus* as a function of metagenomic community structure and human genotypic variation in Northeastern Ohioans. $400,000 direct costs, 4 years. Resubmitted May 2016.

**2**. NIH F32 (Mark Dalman, PI; Smith, mentor). Investigating *Staphylococcus aureus* as a function of metagenomics and metaproteomics in twins. Provides salary support for Dr. Dalman. Resubmitted April 2016.

**1**. NIH R15 (NIEHS), *S. aureus* as an environmental contaminant of water: tracking sources and effects on human beach-goers. $300,000 direct costs, 3 years.Submitted October 2015, not funded.

**Completed External Research Funding (only grants exceeding $5,000 direct costs included).**

**15.** Clinical trial examining nasal eradication of *S. aureus* in nurses. Role: co-PI. $10,000. (GOJO). 01/01/17-01/01/18.

**14**. Molecular epidemiology of *S. aureus*. CRDF Global professional training program (post-doctoral support, Dr. Niami and Dr. Taha plus research supplies). Role: PI. $15,000. 01/01/15-07/01/15

**13**. Epidemiology of rural MRSA: is livestock contact a risk factor? R18 HS019966-01, AHRQ. Role: PI. $1,500,000. 09/30/10-07/31/13.

**12**. Investigation of Occupational Exposure to and Infection by MRSA in Rural Iowa. K01 OH-009793, National Institute for Occupational Health and Safety. Role: PI. $300,000. 08/01/10-07/31/13.

**11**.Investigation of the molecular epidemiology of *Staphylococcus aureus* in a rural population. NIH Loan Repayment Program (LRP) fellowship. Role: Recipient. 06/01/09-05/31/13.

**10**. Phenotypic and Genotypic Characterization of Methicillin Susceptible *Staphylococcus aureus* (MSSA) in Pigs and Farm Workers (Bayleyegn Molla, PI), National Pork Board. Role: Collaborator. $30,000. 05/01/11-04/30/12.

**9**. Assessment and mitigation of airborne transmission of methicillin-resistant *Staphylococcus aureus* in animal feeding operations and the outdoor environment. University of Iowa Environmental Health Sciences Research Center. Contract #: P30 ES005605 Role: PI. $30,000. 08/01/10-03/30/11.

**8**. 2nd ASM Conference on Methicillin-resistant Staphylococci in Animals: Veterinary and Public Health Implications. USDA Conference grant. Role: Conference organizer. $40,000. 09/11.

**7**.Antibiotic-resistant *Staphylococcus aureus*:  Investigation of a poultry reservoir. Great Plains Center for Rural Health, U50 OH 007548. $14,500. 10/01/10-09/30/11.

**6**. Is *S. aureus* present on retail pork? Institute for Agriculture and Trade Policy. Role: PI. $17,200. 09/01/10-12/31/10.

**5**. Management by Primary Care Clinicians of Patients Suspected of Having Community-Acquired, Methicillin-Resistant *Staphylococcus aureus* (CA-MRSA) Infections. AHRQ, HHSA 2902 007100121. (Barcey Levy, PI) Role: Collaborator. $400,000. 09/01/08-08/31/10.

**4**. Prevalence and characterization of methicillin-resistant *Staphylococcus aureus* (MRSA) in pigs and farm workers on conventional and antibiotic free swine farms in the USA. National Pork Board, Contract #14917. Role: PI. $30,000. 08/01/08-01/01/10.

**3**. Prevalence of MRSA colonization in rural Iowa. Great Plains Center for Rural Health. Grant #: U50 OH 007548. Role: PI. $16,900. 01/01/01-09/30/09.

**2**. Are day care workers at increased risk of MRSA infection? Heartland Center for Occupational Health and Safety. Contract #: T 42 OH 008491. Role: PI. $20,000. 07/01/08-06/30/09.

**1**. Analysis of hypervariable genes in *Streptococcus agalactiae*. University of Iowa College of Public Health-Carver College of Medicine New Investigator Research Award. Role: PI. 02/01/05-02/28/06.

**Invited Talks**

**101.** *Vaccine hesitancy and denial: what can you do?* 24th Annual Pennsylvania Immunization Conference, Harrisburg, PA. August 2018.

**100.** *Animal pathways of antimicrobial resistance.*New York Academy of Science meeting on the Use of Antibiotics in Animal Food Production. New York, New York. May 2018.

**99.** *Pigs, Pork, and Pathogens: Tracking Livestock-Associated Staphylococcus aureus in the United States.* Ohio State Infectious Disease Institute Seminar Series. Columbus, OH. April 2018.

**98.** *Vaccine denial and the internet: what can microbiologists do?* Keynote talk. Ohio Branch of the American Society for Microbiology Annual Meeting, Athens, OH. March 2018.

**97.** *Pigs, pork and pathogens: working with Staphylococcus aureus in the clinic & beyond*. Seminar, Akron Children’s Hospital Rebecca Considine Research Institute. March 2018.

**96.** *A history of zombie epidemics: implications for epidemics today.* Midwest Veterinary Conference. Columbus, OH. February 2018.

**95.** *Vaccine hesitancy and denial: what can you do?* Midwest Veterinary Conference. Columbus, OH. February 2018.

**94.** *Zoonotic antibiotic resistance: whose responsibility?* Midwest Veterinary Conference. Columbus, OH. February 2018.

**93.** *Pigs, Pork, and Pathogens: MRSA outside the clinic*. Midwest Veterinary Conference. Columbus, OH. February 2018.

**92.** *Antibiotic resistance: local is global.* Kent State Global Health Conference. Kent, OH. November 2017.

**91.** *Livestock-associated MRSA CC398: a biography*. World Conference of Science Journalists meeting. San Francisco, CA. October 2017.

**90.** *The real science of zombies: what TV and films get right (and what they get wrong).* Rose City Comic Convention, Portland, OR. Organized by Smithsonian Magazine. September 2017.

**89.** *Science Denial and the Internet: the Rise of Google University.* Northern California Branch ASM Annual Meeting, closing Keynote talk. Oakland, CA. March 2017.

**88.** *Pigs, Pork, and Pathogens: MRSA outside the clinic*. Northern California Branch ASM Annual Meeting, opening Keynote talk. Oakland, CA. March 2017.

**87.** *Beyond Zika and Ebola: why we’ll always have pandemics*. University of Toledo Department of Microbiology and Immunology seminar. Toledo, OH. December 2016.

**86.** *Pigs, Pork, and Pathogens: MRSA outside the clinic*. Washington Branch ASM Annual Meeting, Keynote talk. Seattle, WA. November 2016.

**85.** *Beyond Zika and Ebola: why we’ll always have pandemics*. ASM Texas Branch 75th Annual Meeting, Keynote talk. Dallas, TX. November 2016.

**84.** *Medical information in the community: reaching out beyond the office*. HealOhio Wound Care and Research Conference. Akron, OH. October 2016.

**83.** *Pigs, Pork, and Pathogens: MRSA outside the clinic*. Iowa State University College of Veterinary Medicine, Ramsey Lecture Series. Ames, IA. September 2016.

**82**. *Pigs, Pork, and Pathogens: MRSA outside the clinic*. MIT Museum, Cambridge, MA (Part of “Microbial Conversations”, sponsored in part by ASM). June 2016.

**81.***A history of zombie epidemics: implications for epidemics today*. Northeast Association for Clinical Microbiology & Infectious Diseases, Northeast Branch ASM joint annual meeting (Boxborough, MA). April 2016.

**80.***Science denial and the internet: the rise of Google University*. Northeast Association for Clinical Microbiology & Infectious Diseases, Northeast Branch ASM joint annual meeting (Boxborough, MA). April 2016. Keynote address.

**79.***A history of zombie epidemics: implications for epidemics today*. Rio Grande Branch ASM annual meeting, University of Texas at El Paso (El Paso, Texas). April 2016.

**78.***Ebola & emerging diseases: why we’ll always have pandemics*. Rio Grande Branch ASM annual meeting, University of Texas at El Paso (El Paso, Texas). April 2016. Keynote address.

**77.***A history of zombie epidemics: implications for epidemics today*. Missouri Valley Branch ASM annual meeting, Kansas State University (Kansas City, KS). March 2016.

**76.***Pigs, pork, and pathogens: MRSA in unexpected places*. Microbiology seminar, Rutgers University (New Brunswick, NJ). February 2016.

**75**. *Science denial and the internet: the rise of Google University.* Theobald Smith Society Spring meeting (New Jersey Branch ASM, New Brunswick, NJ). February 2016. Keynote address.

**74.***A history of zombie epidemics: implications for epidemics today*. Southeast Branch American Society for Microbiology annual meeting (Kennesaw, GA). Keynote address. November 2015.

**73.***Ebola & emerging diseases: why we’ll always have pandemics*. Science Olympiad keynote address (Ashtabula, OH). November 2015.

**72.***CAFOs as Infectious Disease Incubators: Iowa Risks, Roles & Responses*. Iowa Global Health Symposium (Iowa City, IA). Keynote address. September 2015.

**71.***Vaccines: why Ohio needs to step it up.* KSU Alumni Lecture Series (Kent, OH). September 2015.

**70.***Pigs, Pork, and Pathogens: MRSA in Unexpected Places*. Arizona State University School of Life Sciences Seminar series (Tempe, AZ). August 2015.

**69.***A Brief History of Ebola*. Association of Health Care Journalists, Annual Meeting, San Jose, CA. April 2015.

**68.***Livestock-associated Staphylococcus aureus in the United States: an overview*. International Conference on Epidemiology and Control of MRSA in China and North America, Beijing, China. April 2015.

**67.***Ebola: Separating fact from fiction*. Heidelberg University, Tiffin, OH. Keynote address. January 2015.

**66.***Careers in epidemiology and science communication*. Heidelberg University Careers Seminar, Tiffin, OH. January 2015.

**65*.*** *Antibiotic resistance and emerging infections from animals*. Heidelberg University Biology Seminar, Tiffin, OH. January 2015.

**64.***Ask the Expert, session on Ebola*. National Association of Biology Teachers Annual Meeting, Cleveland, OH. November 2014.

**63*.*** *A history of zombie epidemics.* “Undead U,” Michigan Technical University symposium, Houghton, MI. October 2014.

**62.***An overview of livestock-associated MRSA*. International Society for Environmental Epidemiology (ISEE) annual meeting, Seattle, Washington. August 2014.

**61.***MRSA in animals*. Antibiotic resistance at the animal-human interface, Princeton University, Princeton NJ. May 2014.

**60.***Zombies and infectious disease*. Museum of Science and Industry Zombie Research Institute (summer program, Tampa, Florida). May 2014.

**59.***MRSA in the Environment*. Ohio Environmental Health Association annual conference, Columbus, OH. April 2014.

**58.***Pigs, pork and pathogens: MRSA in unexpected places.* Infectious Disease Epidemiology and Center for Communicable Disease Dynamics departmental seminar, Harvard University School of Public Health, Cambridge, MA. February 2014.

**57**. *Pigs, pork and pathogens: MRSA in unexpected places*. Biology departmental seminar, Kent, OH. January 2014.

**56.***Social media and your scholarship*. Kent State Faculty Development Center, Kent, OH. October 2013.

**55.***Using social media to affect change and communicate scientific findings in the public health setting*. Infectious Disease Society of America (IDSA) annual meeting 2013 (IDweek), San Francisco, CA. October 2013.

**54.***MRSA Among Animals, Pets, and Link to Human Populations*. Infectious Disease Society of America (IDSA) annual meeting 2013 (IDweek), San Francisco, CA. October 2013**.**

**53**. *Social Media: Implementing Social Media to Advance Your Work and Career*. Women’s Faculty Development Conference, University of Iowa, Coralville, IA. May 2013.

**52.***How to make sure you’re being appropriately skeptical when covering scientific and medical studies*. ScienceOnline 2013, North Carolina State University, Raleigh, NC. January 2013.

**51.** *Social Media and Medicine*. Internal Medicine Grand Rounds, Carver College of Medicine, University of Iowa, Iowa City IA. November 2012.

**50.***Methicillin-resistant Staphylococcus aureus in animals: Something Wicked This Way Comes*. International Conference on Antimicrobial Agents and Chemotherapy. San Francisco, California. September 2012.

**49.***Antibiotic use in livestock production: MRSA as a case in point*. American Veterinary Medicine Association Annual Convention, San Diego, CA. August2012.

**48.***Infectious Disease and the Zombie Apocalypse*. OSFest 5, Omaha, NE. July 2012.

**47.***Infectious Disease…and Zombies*. Marion Public Library, Marion, IA. June 2012.

**46.***Science Denial and the Internet*. American Society for Microbiology 112th General Meeting, San Francisco, CA (Symposium organizer). May 2012.

**45.***Agriculture and Antibiotic Resistance*. Briefing to Congressional staffers, Capitol Hill, Washington DC. April 2012.

**44.***Science Denial and the Internet*. Science and Policy Seminar Series, University of Oklahoma Stillwater, OK. February 2012.

**43*.*** *Pigs, Pork, and Pathogens: MRSA in Unexpected Places*. Epidemiology Seminar Series, Kent State University, Kent, OH. February 2012.

**42.***Antibiotic Resistance: A Global Perspective*. Iowa Foreign Relations Council Meeting, Iowa City, IA. January 2012.

**41.***Pigs, Pork, and Pathogens: MRSA in Unexpected Places*. Department of Biology Seminar Series, American University, Washington, DC. January 2012.

**40.***Introduction to MRSA and Animals: What Do We Know, and Where are the Gaps*? Second ASM-ESCMID Conference on Methicillin-Resistant Staphylococci in Animals, Washington, DC. September 2011.

**39*.*** *Food Animals as Potential Reservoirs for Clinically Relevant Pathogens*. International Association for Food Protection 100th Annual Meeting, Milwaukee, WI. August 2011.

**38.***MRSA as an occupational threat*. University of Iowa Occupational and Environmental Health Seminar Series, Iowa City, IA. May 2011.

**37.***Livestock-associated Staphylococcus aureus: an Overview.* National Institute for Animal Agriculture Symposium on Antibiotic Use in Food Animals, Chicago, IL. April 2011.

**36**. *Microbes and Humanity: a Tour Through History*. University of Northern Iowa Summer Research Symposium, Cedar Falls, IA. Keynote talk, June 2011.

**35.***Agriculture and Antibiotic Resistance*. Iowa Academy of Science Annual Meeting, Waverly, IA, April 2011.

**34.***MRSA and swine farming*. Veterinary Drug Delivery Symposium, Iowa City, IA. January 2011.

**33.***MRSA and swine farming*. “Evaluating the Health Effects of CAFOs”, NIEHS-sponsored conference, Raleigh, NC. October 2010.

**32*.*** *Science Denial and the Internet*. “Science in the Pub” Inaugural meeting, Columbus, OH. September 2010.

**31.***Agriculture and MRSA: Unanswered questions*. Mathematical Biology Seminar, Mathematics Department, University of Iowa, Iowa City, IA. September 2010.

**30***. Methicillin-Resistant Staphylococcus aureus: Occupational and Environmental Health Concerns.* Department of Occupational and Environmental Health Seminar Series, University of Iowa, Iowa City, IA. September 2010.

**29*.*** *Pigs, Pork, and Pathogens: MRSA in Unexpected Places*. Department of Veterinary Medicine Seminar, Ohio State University, Columbus, OH. August 2010.

**28.***Pigs, Pork, and Pathogens: MRSA in Unexpected Places*. USDA seminar series, Ames, Iowa. May 2010.

**27.** Pigs, pork and pathogens: MRSA in unexpected places. Department of Epidemiology Seminar Series, University of Iowa, Iowa City, IA. March 2010.

**26.***History and Evolution of Influenza Viruses.* Iowa City Darwin Day Celebration, Iowa City, IA. February 2010.

**25.***Pigs, pork and pathogens: MRSA in unexpected places*. Epidemiology of Microbial Diseases Seminar Series, Yale University, New Haven, CT. February 2010.

**24.***Agriculture and antibiotic resistance*. Briefing to Congressional staffers, Capitol Hill, Washington DC, co-sponsored by Pew environmental group. November 2009.

**23*.*** *An overview of swine-associated MRSA*. Midwest Rural Agricultural Safety and Health Forum (MRASH), Johnston, IA. November 2009.

**22.***Methicillin-resistant Staphylococcus aureus (MRSA) in Midwestern U.S. swine and swine workers*. APHA Annual Convention, Philadelphia, PA. October 2009.

**21*.*** *Emergence of swine-associated MRSA*. Briefing to congressional staff (Rep. Henry Waxman). September 2009.

**20.** *Wild Wild Web: The Internet and the future of science communication*. Department of Epidemiology Seminar Series, University of Iowa, Iowa City, IA. May 2009.

**19.***Pigs, Pork, and Pathogens: MRSA in Unexpected Places*. University of Toledo Department of Microbiology seminar series. Toledo, OH. May 2009.

**18.***MRSA in US Swine*. Briefing to CDC Zoonotic Diseases monthly conference call (~200 people involved). April 2009.

**17*.*** *Livestock as a reservoir of community-associated MRSA*. Briefing to congressional staffers, Capitol Hill, Washington, DC co-sponsored by AAAS and UCS. February 2009.

**16.***Occupational studies of MRSA in swine and swine workers*. Second annual Iowa Emerging Infectious Diseases Conference, Ames, IA. October 2008.

**15***. Update: MRSA in Iowa swine and swine workers.* National Pork Board meeting on Staphylococcus in swine. September 2008.

**14*.*** *Zoonotic Streptococci*. International Symposium on Emerging Infectious Diseases, Ulaanbaatar, Mongolia, May 2008**.**

**13**. *Swine workers: an emerging risk group for community-associated MRSA*. Grand Rounds, College of Medicine, University of Iowa. March 2008.

**12.***Blogging public health and medicine.* North Carolina Science Blogging Conference, Raleigh, NC. January 2008.

**11**. *Evidence for Streptococcus suis infections among Iowa swine workers*. First annual Iowa Emerging Infectious Diseases Conference, Iowa City, IA. October 2007.

***1*0*.*** *Blogging science*. YearlyKos, Chicago, IL. August 2007.

**9.***Pandemic Influenza: preparing our workplaces*. Occupational Health Symposium, Iowa City, IA. April 2007.

**8.***Streptococcus suis: an emerging infectious disease?*  Department of Epidemiology Seminar Series, University of Iowa. Iowa City, IA. March 2007.

**7.***Pandemic influenza: preparing our workplaces*. Waterloo “Strictly Business” Trade show and convention. Waterloo, IA. February 2007.

**6*.*** *Pandemic influenza: preparing our workplaces*. Tenth Annual Des Moines Orthopaedic Surgeons Worker’s Compensation Symposium. January 2007.

**5.** *What do I need to know about this “bird flu” everyone is talking about?* Allen Community Health Waterloo, IA. November 2006.

**4.***Pandemic influenza: preparing our workplaces*. Worksafe Iowa Des Moines, IA. September 2006.

**3*.*** *Pandemic influenza*. Café Scientifique. Iowa City, IA. May 2006.

**2.***Bird flu and human health*. Clinton Community College, University of Iowa Lifelong Learning Series, Clinton, IA. April 2006.

**1.** *Investigation of putative virulence factors in the group B streptococcus*. Department of Epidemiology Seminar Series, University of Iowa. February 2005.

**Conference Abstracts (Posters & oral presentations; poster unless noted).**

**111.** Aguolu OG (presenter), Phillips L, **Smith TC**, Cheruvu V. *Development and Evaluation of an Educational Human Papillomavirus Vaccine Comic Book*. Society for Epidemiologic Research Annual Meeting, Baltimore, MD. June 2018.

**110.** Aguolu OG (presenter, oral talk), Phillips L, **Smith TC**, Cheruvu V. *Development and Evaluation of an Educational Human Papillomavirus Vaccine Comic Book*. Ohio Public Health Association, May 2018.

**109.** Aguolu OG (presenter), Phillips L, **Smith TC**, Cheruvu V. *Development and Evaluation of an Educational Human Papillomavirus Vaccine Comic Book.* Kent State Graduate Research Forum, April 2018.

**108**. Mackey S (presenter), Thapaliya D, Hanson BM, Kadariya J, Tegegne HA, Davaadash B, **Smith TC.** *Molecular typing of Streptococcus pyogenes isolates collected at a Mongolian Hospital (Ulaanbaatar, Mongolia).*Kent State University Undergraduate Research Forum, Kent, OH. April 2018.

**107.** Mackey S (presenter), Thapaliya D, Hanson BM, Kadariya J, Tegegne HA, Davaadash B, **Smith TC.** *Molecular typing of Streptococcus pyogenes isolates collected at a Mongolian Hospital (Ulaanbaatar, Mongolia).*Ohio Branch American Society for Microbiology General Meeting, Athens, OH. March 2018.

**106. Smith TC**, Kadariya J, Thapaliya D, Bhatta S, Mahatara RL, Dhakal N. *Staphylococcal epidemiology in Bhutanese refugees in Nepal and Ohio*. Gordon Conference on Staphylococcal Research, Waterville Valley, NH. August 2017.

**105**. **Smith TC** (oral talk). *Staphylococcus aureus on raw meat products and consumers*. USDA NIFA Meeting, St. Louis, MO. July 2016.

**104**. Cheatham S (presenter), Thapaliya D, Taha M, Milliken K, Dalman M, Kadariya J, Grenier D, **Smith TC**. *Prevalence of Staphylococcus aureus and Methicillin-resistant Staphylococcus aureus (MRSA) on Common Environmental Surfaces in Seven Nursing Homes within Northeast Ohio*. ASM Microbe General Meeting, Boston, MA. June 2016.

**103**. Dalman M (presenter), Naimi HM, Bhatta S, Thapaliya D, **Smith TC**. *Carrying a buddy to the gym: molecular epidemiological characteristics of Staphylococcus aureus in multiple gym facility types*. ASM Microbe General Meeting, Boston, MA. June 2016.

**102**. Taha M, Dalman M (presenter), Thapaliya D, Kadariya J, **Smith TC**. *Environmental sampling of Staphylococcus aureus at a Large, Midwestern Liberal Arts College: molecular epidemiology at the intersection of non-healthcare and healthcare facilities.* ASM Microbe General Meeting, Boston, MA. June 2016.

**101**. Thapaliya D (presenter), Hellwig E, Kadariya J, Dalman M, Kennedy K, DiPerna M, Orihill A, Taha M, **Smith TC**. *Prevalence and Characterization of Staphylococcus aureus on Public Recreational Beaches in Northeast Ohio*. ASM Microbe General Meeting, Boston, MA. June 2016.

**100**. Kadariya J (presenter), Thapaliya D, Lal Mahatara R, Dhakal N, Bhatta S, **Smith TC**. *Prevalence and Molecular Epidemiology of Staphylococcus aureus Among Bhutanese Refugees in Nepal and in Northeast Ohio*. Alka Kadariya, presenter. ASM Microbe General Meeting, Boston, MA. June 2016.

**99**. Grenier D, Thapaliya D, Little K, Mansell V, Kadariya J, Dalman M, Taha M, **Smith TC**. *Prevalence and Characterization of Staphylococcus aureus in Geese Feces Collected from State Parks in Northeast Ohio.* ASM Microbe General Meeting, Boston, MA. June 2016.

**98**. Kates A (presenter), **Smith TC**. *The nasal and oropharyngeal microbiomes and Staphylococcus aureus carriage*. Oral talk. Great Plains Emerging Infectious Diseases Conference. Iowa City, IA. May 2016.

**97**. Kadariya J (presenter), Thapaliya D, Lal Mahatara R, Dhakal N, Bhatta S, **Smith TC**. *Prevalence and molecular epidemiology of Staphylococcus aureus among Bhutanese refugees in Nepal and in Northeast Ohio*. Ohio Branch American Society for Microbiology meeting, Mason, OH. April 2016.

**96**. Thapaliya D (presenter), Hellwig E, Kadariya J, Dalman M, Kennedy K, DiPerna M, Orihill A, Taha M, **Smith TC**. *Prevalence and characterization of Staphylococcus aureus on Public Recreational Beaches in Northeast Ohio*. Oral talk. Ohio Branch American Society for Microbiology meeting, Mason, OH. April 2016.

**95. Smith TC**, Wardyn S, Stegger M, Price L. *Recurrent Staphylococcus aureus t571/ST398 infection in an Iowa farmer.* Oral talk. 4th ASM-ESCMID Conference on methicillin-resistant Staphylococci in animals: veterinary and public health implications. Chicago, IL. November 2015.

**94**. Kadariya J (presenter), Thapaliya D, Hedwig E, **Smith TC**. *Prevalence and molecular epidemiology of Staphylococcus aureus in beach sand and fresh water of Northeast Ohio*. Oral talk. Northeast Ohio Environmental Health Association Conference, Quail Hollow, OH, October 2015.

**93**. Milliken K (presenter), Thapaliya D, **Smith TC**. *Prevalence of Staphylococcus aureus Bacteriophages in Northeast Ohio*. Research Experience for Undergraduates Poster Session, Kent, OH, August 2015.

**92. Smith TC**, Hanson BM, Kates AE, Carrel M. *Analysis of the prevalence and geospatial distribution of Staphylococcus aureus in communities and raw meat products*. USDA NIFA Project Director Meeting, Portland, OR, July 2015.

**91**. Thapaliya D (presenter), **Smith TC**. *From Farm to Fork: The Prevalence and Molecular Epidemiology of Staphylococcus aureus in Commercially Distributed Meat*. Oral talk. Ohio Public Health Combined Conference, Columbus, OH, May 2015. **\*Winner, best student presentation.**

**90**. Nworie A (presenter), Olayinka BO, Onaolapo JA, Ehinmidu JO, Wardyn SE, **Smith TC**. *A novel methicillin-resistant Staphylococcus aureus t11469 and a poultry endemic strain t002 (ST5) are present in chicken in Ebonyi State, Nigeria*. International Symposium on Staphylococci and Staphyloccal infections (ISSSI) Chicago, IL. August 2014.

**89**. Nworie A (presenter), Olayinka BO, Onaolapo JA, Ehinmidu JO, Wardyn SE, Hanson BM, Kates A, Thapaliya D, **Smith TC.** *Molecular epidemiology of methicillin-resistant Staphylococcus aureus from poultry in Ebonyi State, Nigeria*. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) Washington, DC. August 2014.

**88**. Thapaliya D (presenter), Hellwig E, Smith TC. *MRSA on Northeastern Ohio beaches*. Kent State University Water Symposium. October 2014.

**87**. Hellwig E (presenter), Thapaliya D, **Smith TC**. *Prevalence and antibiotic resistance of Staphylococcus aureus in beach sand and fresh water of Northeast Ohio*. Kent State Research Experience for Undergraduates poster session, Kent Ohio. July 2014.

**86**. McDanel J, Perencevich E, Diekema D, Herwaldt LA, **Smith TC**, Chrischilles E, Dawson J, Schweizer M (presenter). *Beta-lactams versus vancomycin for treatment of methicillin-susceptible Staphylococcus aureus bacteremia: a retrospective cohort study of data from the US Veterans’ Health Administration.* European Congress of Clinical Microbiology and Infectious Diseases, Copenhagen, Denmark. May 2014.

**85**. Frana T (presenter), Beahm A, Fligg D, Kinyon J, Wardyn S, Hanson B, Layman L, Karriker L, Ramirez A, **Smith TC**. *Detection of methicillin-resistant Staphylococcus aureus in swine oral fluids*. 3rd MRSA in animals conference, Copenhagen, Denmark. November 2013.

**84**. Carrel M (presenter), Schweizer ML, **Smith TC,** Perencevich EN. *Residential proximity to large swine confined animal feeding operations is associated with increased risk of MRSA colonization at time of hospital admission in rural Iowa veterans*. Oral talk. IDWeek; San Francisco, CA. October 2013.

**83**. Hanson, BM (presenter), Kates A, **Smith TC.** *Longitudinal study of Iowa families to determine prevalence of Staphylococcus aureus and observe colonization incidence and familial transmission*. IDWeek; San Francisco, CA. October 2013.

**82**. Kates, A (presenter), Chorazy M, **Smith TC.** *Prevalence and Molecular Characterization of Staphylococcus aureus from Human Stool Samples at the University of Iowa*. IDWeek; San Francisco, CA. October 2013.

**81**. **Smith TC**, Nair R. *Molecular epidemiology and antimicrobial resistance of Staphylococcus aureus infection isolates in a Midwestern state, USA.* Gordon Research Conference on Staphylococcal Diseases. Waterville Valley, NH. Aug 2013.

**80**. Nair, R (presenter), **Smith TC.** *Molecular epidemiology and antimicrobial resistance of Staphylococcus aureus infection isolates in a Midwestern state, USA*. ASM General Meeting Denver, Colorado. May 2013.

**79**. O’Malley, S (presenter), Emele F, Hanson BM, **Smith TC.** *Molecular typing of antibiotic-resistant Staphylococcus aureus in Lagos, Nigeria*.ASM General Meeting Denver, Colorado. May 2013.

**78**. Wardyn, S (presenter), Nair R, Forshey B, Farina S, Kates A, **Smith TC**. *Swine workers are at increased risk of carrying multi-drug resistant Staphylococcus aureus.* ASM General Meeting Denver, Colorado. May 2013.

**77.** Thapaliya D, Quick M, Farina S, O’Brien A, Nair R, Nworie A, Hanson BM, Kates A, Wardyn S, **Smith TC**. *Commerically-distributed meat as a potential vehicle for Staphylococcus aureus transmission*. ASM General Meeting Denver, Colorado. May 2013.

**76**. Thapaliya, D (presenter), Quick M, Farina S, O’Brien A, Nair R, Nworie A, Hanson BM, Kates A, Wardyn S, **Smith TC**. *Commerically-distributed meat as a potential vehicle for Staphylococcus aureus transmission.* Governor’s Conference on Public Health, Des Moines, Iowa. April 2013.

**75**. Wardyn, S (presenter), Nair R, Forshey B, Farina S, Kates A, **Smith TC**. *Swine workers are at increased risk of carrying multi-drug resistant Staphylococcus aureus.* Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2013.

**74**. Eko, K (presenter), Perencevich E, Schweizer M, **Smith TC.** *Surveillance and molecular characterization of methicillin-resistant Staphylococcus aureus (MRSA) in a Veterans Affairs Hospital*. Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2013. **\*Student award winner, poster presentation.**

**73**. O’Malley, S (presenter), Emele F, Hanson BM, **Smith TC.** *Molecular typing of antibiotic-resistant Staphylococcus aureus in Lagos, Nigeria*.Oral presentation.Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2013.

**72**. Thapaliya, D (presenter), Quick M, Farina S, O’Brien A, Nair R, Nworie A, Hanson BM, Kates A, Wardyn S, **Smith TC.** *Commerically-distributed meat as a potential vehicle for Staphylococcus aureus transmission*. Oral presentation.Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2013.

**71**. Kates A (presenter), Chorazy M, **Smith TC.**  *Prevalence and Molecular Characterization of Staphylococcus aureus from Human Stool Samples at the University of Iowa*. Oral talk. Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2013.

**70**. Hanson BM (presenter), Kates A, O’Malley S, Farina S, **Smith TC.** *Longitudinal study of Iowa families to determine prevalence of Staphylococcus aureus and observe colonization incidence and familial transmission events*. Oral presentation. Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2013. **\*Student award winner, 2nd place oral presentation.**

**69**. Thomas Meirick (presenter), Hanson BM, Kates A, O’Malley S, Farina S, **Smith TC.** *Determining the* *Prevalence of Staphylococcus aureus among two Iowa populations*. Research in the Capitol, Des Moines, IA. April 2013.

**68**. Thomas Meirick (presenter), Hanson BM, Kates A, O’Malley S, Farina S, **Smith TC.** *Determining the* *Prevalence of Staphylococcus aureus among two Iowa populations*. Iowa Research for Undergraduates Spring Forum, Iowa City, IA. April 2013.

**67**. O’Brien A (presenter), **Smith TC.** *Molecular Epidemiology of Staphylococcus aureus and Streptococcus pyogenes Causing Necrotizing Fasciitis at UIHC*. Department of Epidemiology Fall Poster session, Iowa City, IA. November 2012.

**66**. Nworie A (presenter), Olayinka B, Onaolapo J, Ehinmidu J, **Smith TC.** *Prevalence of**Methicillin resistant Staphylococcus aureus in poultry Farms in Ikwo local Government Area of Ebonyi State, Nigeria*. Iowa Global Health Symposium, Iowa City, IA. October 2012.

**65**. Nair R\* (presenter), **Smith TC**. *Molecular epidemiology of Staphylococcus aureus infection isolates in Iowa*. International Conference on Antimicrobial Agents and Chemotherapy. San Francisco, California. September 2012. **\*Travel Grant Recipient.**

**64**. Frana T (presenter), Beahm A, Hanson B, Kinyon J, Layman L, Karriker L, Ramirez A, **Smith TC**. *Antimicrobial susceptibility patterns and spa types associated with methicillin-resistant Staphylococcus aureus found in pork production facilities located in the Midwestern United States*. AAVM Sixth International Conference on Antimicrobial Agents in Veterinary Medicine, Washington, DC. August 2012.

**63**. Nair R (presenter), **Smith TC**. *Molecular epidemiology of Staphylococcus aureus infection isolates in Iowa*. Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2012.

**62**. Wardyn SE (presenter), **Smith TC.** *Prevalence and molecular epidemiology of Staphylococcus aureus colonization in a cohort of rural Iowans*. Oral presentation.Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2012.

**61**. Quick M (presenter), **Smith TC.** *Prevalence of Staphylococcus aureus on retail meat samples in Iowa*. Oral presentation. Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2012.

**60**. BeahmA, Hanson BM (presenter), Karriker L, Ramirez A, **Smith TC**, Frana T. *Molecular characterization of Staphylococcus aureus and methicillin-resistant Staphylococcus aureus isolated from veterinary students, swine, and their environment*. Oral presentation. Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2012.

**59.** Kates A (presenter), Hanson BM, O’Malley S, Farina S, Quick M, Wu J, **Smith TC**. *Longitudinal study of Iowa families to characterize MRSA familial transmission dynamics and environmental exposures*. Great Plains Emerging Infectious Diseases Conference, Iowa City, IA. April 2012.

**58. Smith TC**. *Prevalence and Molecular Epidemiology of S. aureus in a Cohort of Rural Iowans*. Oral presentation. Eighth International Conference on Emerging Infectious Diseases, Atlanta, Georgia. March 2012.

**57.** Odofin L, **Smith TC**, Hanson B, Heimer R. *Persistence of Methicillin-Resistant Staphylococcus aureus (MRSA) in Connecticut Swine Farms*. Eighth International Conference on Emerging Infectious Diseases, Atlanta, Georgia. March 2012.

**56.** Odofin L\* (presenter), Hanson BM, **Smith TC**, Heimer R. *Prevalence and Characteristics of Staphylococcus aureus in Connecticut swine and swine workers*. Oral presentation. Second ASM-ESCMID Conference on Methicillin-Resistant Staphylococci in Animals, Washington, DC. September 2011. \***Travel grant recipient**

**55***.* O’Brien AM, Hanson BM\* (presenter), Farina SA, Wu JY, Simmering JE, Wardyn SE, Kulick ME, Wallinga DB, **Smith TC.** *Prevalence of Staphylococcus aureus and methicillin-resistant Staphylococcus aureus (MRSA) on retail pork products*. Oral presentation. Second ASM-ESCMID Conference on Methicillin-Resistant Staphylococci in Animals, Washington, DC. September 2011. \***Travel grant recipient**

**54.** Nicholson T (presenter), **Smith TC.** *Swine-associated MRSA form robust biofilms*. Second ASM-ESCMID Conference on Methicillin-Resistant Staphylococci in Animals, Washington, DC. September 2011.

**53.** Wardyn SE (presenter), Nair R, Farina SA, Hanson BM, Kates A, Quick M, **Smith TC**. *Livestock-associated Staphylococcus aureus in rural Iowans*. Second ASM-ESCMID Conference on Methicillin-Resistant Staphylococci in Animals, Washington, DC. September 2011.

**52.** Ortiz Baez VJ (presenter), Wardyn SE, Hanson BM, **Smith TC.** *Prevalence of Staphylococcus aureus and Methicillin-resistant Staphylococcus aureus (MRSA) in Cedar County, Iowa*. Summer Undergraduate Research Conference, University of Iowa. July 2011.

**51.** Hong J (presenter), Wardyn SE, Hanson BM, **Smith TC.** *Comparison & Analysis of Prevalence of S. aureus in Animal Farmers and People Without Animal Contact in Clayton County, Iowa*. Secondary School Training Program (SSTP) summer poster session, University of Iowa. July 2011.

**50.** Shows H (presenter), Wardyn SE, Hanson BM, **Smith TC.** *Prevalence and molecular characterization of S. aureus in Lyon County, Iowa*. Secondary School Training Program (SSTP) summer poster session, University of Iowa. July 2011.

**49.** Wu JY (presenter), Wardyn SE, Hanson BM, **Smith TC.** *The Presence of Staphylococcus aureus in Dubuque County, Iowa*. Summer Undergraduate Research Conference, University of Iowa. July 2011.

**48.** Farina SA (presenter), Wardyn SE, Hanson BM, **Smith TC.** *Prevalence and Molecular Characterization of Staphylococcus aureus in Polk, Henry, and Adair Counties (Iowa).* Summer Undergraduate Research Conference, University of Iowa. July 2011.

**47. Smith TC**, Wardyn SE, Hanson BM, Forshey B, Moritz ED. *Molecular and epidemiological predictors of Staphylococcus aureus colonization site in a population with limited nosocomial exposure*. North American Congress of Epidemiology, Montreal, Quebec, Canada. June 2011.

**46.** O’Brien A (presenter), Hanson BM, Simmering J, Farina S, Wu J, **Smith TC.***Prevalence of S. aureus in Retail Pork*. Iowa “Research in the Capitol” symposium. Des Moines, Iowa. June 2011.

**45.** Beahm A (presenter), Hanson BM, Kinyon J, Layman L, Karriker L, RamirezA, **SmithTC**, Frana T. *Detection of methicillin-resistant Staphylococcus aureus in swine oral fluids*. Conference of Research Workers in Animal Diseases, Chicago, IL. December 2010.

**44.** O’Brien A\* (presenter), Hanson BM, Simmering J, Farina S, Wu J, **Smith TC.** *Prevalence of S. aureus in Retail Pork*. University of Iowa Fall Undergraduate Research Festival. November 2010. \***Award winner, best Natural Sciences poster.**

**43.** Wu J (presenter), Hanson BM, **Smith TC.** *The Presence of mecA and pvl Genes in Swine, Human, and Environmental Samples*. University of Iowa Fall Undergraduate Research Festival. November 2010.

**42.** Leedom Larson KR (presenter), **Smith TC**,Donham KJ.*An intervention to reduce occupational exposure to MRSA in communal showers for pork production workers*. American Public Health Association annual meeting, Denver, CO. October 2010.

**41.** Donham KD (presenter), Ferguson DD, Harper AL, Leedom Larson K, **Smith TC**. *MRSA in livestock*. Oral presentation. National Center for Farmer Health Conference. Hamilton, Australia. September 2010.

**40.** Mendes RE (presenter), **Smith TC**, Deshpande LM, Diekema DJ, SaderHS, JonesRN. *Plasmid-borne Vga(A)-encoding Gene in Methicillin-resistant Staphylococcus aureus (MRSA) ST398 from Swine and Swine Farmer in the United States*. Oral presentation. International Conference on Antimicrobial Agents and Chemotherapy. Boston, Massachusetts. September 2010.

**39.** Dressler AE\* (presenter), **Smith TC.** *Prevalence, Antibiotic Resistance, and Molecular Characterization of Staphylococcus aureus in State Fair Swine*. ASM General Meeting San Diego, CA. May 2010. **\*Travel Grant Recipient, Outstanding student poster nominee.**

**38.** Wardyn SE (presenter), **Smith TC.** *Prevalence and molecular epidemiology of S. aureus in rural Iowans*. ASM General Meeting San Diego, CA. May 2010.

**37.** Dressler AE (presenter), **Smith TC.** *Prevalence, Antibiotic Resistance, and Molecular Characterization of Staphylococcus aureus in State Fair Swine*. Iowa Academy of Science annual meeting, Lamoni, IA. April 2010.

**36.** Wardyn SE (presenter), **Smith TC.** *Prevalence and molecular characterization of Staphylococcus aureus in wildlife*. Iowa Academy of Science annual meeting, Lamoni, IA. April 2010.

**35.** Hanson BM (presenter), **Smith TC**. *Prevalence of Staphylococcus aureus and Methicillin-Resistant Staphylococcus aureus (MRSA) on Retail Meat in Iowa*. Oral presentation. Iowa Academy of Science annual meeting, Lamoni, IA. April 2010.

**34.** Harper AL (presenter), Male MJ, Scheibel RP, Hanson BM, **Smith TC**. *Prevalence of livestock-associated methicillin-susceptible Staphylococcus aureus (MSSA) in Iowa and Illinois swine and swine workers*. Iowa Academy of Science annual meeting, Lamoni, IA. April 2010.

**33.** Odofin LU (presenter), Pettigrew M, Dembry L, Zelterman D, Heimer R, Hanson BM, **Smith TC**. *MRSA in Connecticut pigs*. Seventh International Conference on Emerging Infectious Diseases, Atlanta, Georgia. March 2010.

**32.** Gebreyes W (presenter), Molla Zewde B, Abley M, Thakur S, Davies P, **Smith TC**, Jackson C, Fedorka-Cray P. *Methicillin-resistant staphylococci (MRS+) in pigs and farm workers*. Oral presentation. Seventh International Conference on Emerging Infectious Diseases, Atlanta, Georgia. March 2010.

**31.** Moritz E (presenter), **Smith TC**. *Staphylococcus aureus* *in Iowa Child Care Facilities*. Seventh International Conference on Emerging Infectious Diseases, Atlanta, Georgia. March 2010.

**30.** Wardyn SE, **Smith TC.** *Prevalence and molecular characterization of Staphylococcus aureus in wildlife*. Seventh International Conference on Emerging Infectious Diseases, Atlanta, Georgia. March 2010.

**29.** Moritz E (presenter), **Smith TC**. *Staphylococcus aureus in Iowa Child Care Facilities*. University of Iowa Epidemiology department poster session. November 2009.

**28.** Hanson BM (presenter), **Smith TC**. *Prevalence of Staphylococcus aureus and Methicillin-Resistant Staphylococcus aureus (MRSA) on Retail Meat in Iowa*. University of Iowa Epidemiology department poster session. November 2009.

**27.** Hanson BM (presenter), Harper AL, Scheibel RP, Roberts LK, **Smith TC**. *Prevalence of Staphylococcus aureus and Methicillin-Resistant Staphylococcus aureus (MRSA) on Retail Meat in Iowa*. Oral presentation. Midwest Rural Agricultural Safety and Health Forum (MRASH), Johnston, IA, October 2009.

**26.** Ferguson D (presenter), **Smith TC,** Donham K. *Airborne MRSA in swine production facilities*. Oral presentation. Midwest Rural Agricultural Safety and Health Forum (MRASH), Johnston, IA, October 2009.

**25.** Leedom-Larson K (presenter), Wagstrom E, Male M, **Smith TC,** Donham K. *MRSA in pork producer shower facilities*. Oral presentation. Midwest Rural Agricultural Safety and Health Forum (MRASH), Johnston, IA, October 2009.

**24.** Harper AL (presenter), Male MJ, Scheibel RP, Hanson BM, **Smith TC**. *Prevalence of MRSA in organic and confinement swine operations in the Midwestern United States*. Oral presentation. Midwest Rural Agricultural Safety and Health Forum (MRASH), Johnston, IA, October 2009.

**23.** Harper AL (presenter), Male MJ, Scheibel RP, Hanson BM, **Smith TC**. *Swine workers: An emerging risk group for community-associated methicillin-resistant Staphylococcus aureus (MRSA).* APHA Annual Convention, Philadelphia, PA. April 2009.

**22.** Moritz ED (presenter), **Smith TC.** *Staphylococcus aureus in Iowa Child Care Facilities: Results to Date*. ASM North Central Branch meeting, LaCrosse, WI. April 2009.

**21.** Harper AL (presenter), Male MJ, Scheibel RP, Hanson BM, **Smith TC**. *Prevalence of MRSA in organic and confinement swine operations in Iowa and Illinois*. ASM North Central Branch meeting, LaCrosse, WI. April 2009.

**20.** Hanson BM\* (presenter), Harper AL, Scheibel RP, Roberts LK, **Smith TC**. *Prevalence of Staphylococcus aureus and Methicillin-Resistant Staphylococcus aureus (MRSA) on Retail Meat in Iowa*. ASM-ESCMID Conference on Methicillin-resistant Staphylococci in Animals, London, England. September 2009. \***Travel grant recipient.**

**19.** Harper AL\* (presenter), **Smith TC**. *Prevalence of MRSA in organic and confinement swine operations in the Midwestern United States*. ASM-ESCMID Conference on Methicillin-resistant Staphylococci in Animals, London, England. September 2009. \***Travel grant recipient.**

**18.** Scheibel RP\* (presenter), Harper AL, Hanson B, Kroeger JS, Diekema DJ, Bender JB, Gray GC, **Smith TC**. *Prevalence, Antibiotic Resistance, and Molecular Characterization of Staphylococcus aureus in State Fair Swine.* American Society for Microbiology General Meeting, Philadelphia, PA. May 2009. \***Travel grant recipient.**

**17.** Hanson BM (presenter), Harper AL, Scheibel RP, Roberts LK, **Smith TC**. *Prevalence of Staphylococcus aureus and Methicillin-Resistant Staphylococcus aureus (MRSA) on Retail Meat in Iowa*. Iowa Academy of Science annual meeting, Des Moines, IA. April 2009.

**16.** Harper AL\* (presenter), Male MJ, Scheibel RP, Hanson BM, **Smith TC**. *Swine workers: An emerging risk group for community-associated methicillin-resistant Staphylococcus aureus (MRSA).* Iowa Academy of Science annual meeting, Des Moines, IA. April 2009. \***Iowa Delta Omega Faculty Review Committee selection.**

**15.** Harper AL\* (presenter), Male MJ, Moritz-Korolev ED, Kroeger JS, Tinkler GP, Herwaldt LA, Diekema D, **Smith TC**. *Prevalence of methicillin-resistant Staphylococcus aureus (MRSA) in swine and humans in the Midwestern United States*. American Society for Microbiology General Meeting, Boston, MA. May 2008. \***Travel grant recipient.**

**14. Smith TC**. *Prevalence of methicillin-resistant Staphylococcus aureus (MRSA) in swine in the Midwestern United States*. Oral presentation. Iowa Academy of Science annual meeting, Cedar Rapids, Iowa. May 2008.

**13. Smith TC**. *Prevalence of methicillin-resistant Staphylococcus aureus (MRSA) in swine in the Midwestern United States*. Oral presentation. Sixth International Conference on Emerging Infectious Diseases, Atlanta, Georgia. March 2008.

**12. Smith TC**. *Evidence for occupational exposure to Streptococcus suis among U.S. swine workers*. Oral presentation. International Conference on Diseases in Nature Communicable to Man, Madison, WI. March 2008.

**11. Smith TC**, Boese B, Myers KP, Gray GC. *Occupational exposure to Streptococcus suis.* American Society for Microbiology 107th General Meeting, Toronto, Ontario, Canada. May 2007.

**10. Smith TC**, Smathers SA, Roehl SM\*, Marrs CF, Foxman B. *A re-assessment of the suggested virulence of a specific group B streptococcus sub-serotype*. 2nd North American Congress of Epidemiology, Seattle, Washington. June 2006.

**9. Smith TC**, Boese B. *Identification of a hypervariable gene region in Streptococcus agalactiae.* Fifth International Conference on Emerging Infectious Diseases, Atlanta, Georgia. March 2006.

**8. Smith TC**, Roehl SM, Pillai P, Li S, Marrs CF, Foxman B. *Distribution of putative and established virulence genes in commensal and invasive isolates of Streptococcus agalactiae.* American Society for Microbiology 105th General Meeting, Atlanta, Georgia. May 2005.

**7. Smith TC**, Sledjeski DD, Boyle MDP. *Biological selection leads to differential regulation of genes in the Mga regulon of Group A Streptococcus*. Michigan Branch, American Society for Microbiology General Meeting, Ann Arbor, MI. April 2003.

**6. Smith TC**, Sledjeski DD, Boyle MDP. *Regulation of protein H expression in M1 serotype isolates of Streptococcus pyogenes.* American Society for Microbiology 102nd General Meeting, Salt Lake City, Utah. May 2002.

**5. Smith TC**, Sledjeski DD, Boyle MDP. *Mouse passage of M1 serotypes of Streptococcus pyogenes results in expression of Protein H*. Medical College of Ohio Graduate Student Research Forum, March 2002.

**4. Smith TC**, Sledjeski DD, Boyle MDP. *Transposon mutagenesis of an mga mutant of Streptococcus pyogenes reveals a “housekeeping” gene plays a key role in M protein regulation*. Medical College of Ohio Graduate Student Research Forum, Toledo, OH. March 2001.

**3. Smith TC**, Sledjeski DD, Boyle MDP. *Tn917 mutagenesis of an mga mutant of Streptococcus pyogenes isolate 64/14 results in over-expression of M and M-like proteins*. Ohio Branch, American Society for Microbiology General Meeting, Brown County, IN. March 2001.

**2. Smith TC**, Boyle MDP. *Tn917 mutagenesis of an mga mutant of Streptococcus pyogenes reveals additional regulators of M protein expression*. Medical College of Ohio Graduate Student Research Forum. March 2000.

**1. Smith TC**, Sledjeski DD, Boyle MDP. *Tn917 mutagenesis of an mga knock-out mutant of Streptococcus pyogenes isolate 64/14 to identify a negative regulator of M protein expression*. American Society for Microbiology 99th General Meeting, Chicago, IL. May 1999.

## III. TEACHING

**Courses and Descriptions**

**Introduction to Infectious Disease Epidemiology, EPI 63015. Kent State University, Graduate Course. Taught every Spring, 2014-present. Enrollment 16 (2014), 20 (2015), 25 (2016), 21 (2017), 16 (2018).** In this course, the history, principles, methods, and practice of infectious disease epidemiology are surveyed. Epidemiologic surveillance, disease outbreak investigation, and other methods used to elucidate the epidemiology of infectious diseases are reviewed. The descriptive epidemiology of important infectious diseases of humans are considered and the implications of this epidemiology for prevention and control discussed. While the focus of this course is on epidemiology of infectious diseases, the readings and discussions incorporate relevant aspects of the microbiology of infectious agents of disease.

**Infectious diseases in history & culture: from antiquity to World War Z: PH 40195/EPI 60195/EPI80195. Kent State University, open to all student levels. Taught Fall 2014-2016 (upcoming). Enrollment 5 (2014); 12 (2015); 9 (2016); 6 (2017). Permanent course established as Plagues and Pandemics: PH 40195/EPI 60195.** Infectious disease affects us all, but many areas within the field are controversial. Should I treat my child’s ear infection with antibiotics? Should I vaccinate my child (or myself?) How do infectious diseases contribute to other “chronic” diseases? How does culture and social standing affect outcomes of infectious disease outbreaks? This course is appropriate both for humanities majors looking for an introduction to infectious diseases as well as science majors looking to better understand infectious diseases in their historical and cultural context, and the way these diseases have (and continue to) shape history, including the questions above. Ultimately, students should be able to understand the basics of infectious disease epidemiology and disease control within a wide cultural context. The course will encompass various topics in microbiology and infectious disease, using primarily popular non-fiction books on these subjects as sources.

**Ebola past and present: from Zaire to Kent PH 40195/EPI 60195/EPI80195. Kent State University, open to all student levels. Taught Spring 2015-2016. Enrollment 21 (2015); 5 (2016). Currently on hiatus.** Ebola has been known to humankind for almost 40 years, but the recent outbreak in West Africa has brought it to the public consciousness like no time before. However, many people don’t know the story of the Ebola virus. What is its history? Why did this outbreak happen? How did it jump to the United States? How and why did the West African outbreak begin in the first place? This course covers the history of the virus, and the biological, social, and political aspects that have made this outbreak into the largest Ebola outbreak on record by far.

**Evolution in Health and Disease: PH 40195/EPI 60195/EPI80195. Kent State University, open to all student levels. Taught Summer 2014. Enrollment 8. Currently on hiatus.** Evolution is the unifying theory in all of biology, but is frequently missing from curricula in medicine and public health. Yet evolution has shaped the burden of disease in the modern world in which we practice medicine and educate for public health, and understanding the interface between evolutionary biology and the biomedical sciences may lead to improved medical therapies and public health practices. This course, appropriate for undergraduates in Biology, Anthropology, Public Health, and Nursing, among others, examines what has been termed “evolutionary medicine” or “Darwinian medicine,” examining connections between evolution and biomedicine including infectious diseases, cancer, aging, and human genetic diseases.

**Communicable Diseases: PH 30012. Kent State University, Undergraduate Course. Taught Fall 2014. Enrollment 23.** This course is a survey of communicable diseases of public health significance, with a focus on the relationship between underlying basic science principles and effective prevention and control measures.  The course offers a global perspective on the major communicable diseases affecting humans.

**Introduction to Molecular Epidemiology: 173:156. University of Iowa, Graduate Elective. Taught as needed Fall 2006-Fall 2011. Enrollment 7 (2006), 5 (2007), 6 (2008), 10 (2009), 9 (2011).** This course serves as an introduction to the use of the basic techniques of molecular biology (DNA, RNA, and protein techniques) in various aspects of epidemiological research, including diagnosis of disease and biomarker discovery and validation.

**Infectious Causes of Chronic Disease: 173:257. University of Iowa, Graduate Elective. Taught as needed Spring 2007-2013. Enrollment 5 (2007), 5 (2008), 15 (2010), 5 (2013).** Many typical chronic diseases have increasingly been found to have an infectious etiological component. This course examines the evidence linking various infectious agents with the development of different types of chronic disease.

**Applied Infectious Disease Epidemiology: 173:159. University of Iowa, Graduate Elective; part of MPH/DVM and MPH for working veterinarians program. Taught summers 2010-2013. Enrollment 17 (2010), 18 (2011), 18 (2012), 10 (2013).** Introduction to infectious disease surveillance diagnostic tools, outbreak investigations, vaccine trials, public health interventions, biodefense, emerging infectious diseases, and analytical approaches pertaining to infectious disease infection and control. Students also learn study design, ethics, and practical approaches to carrying out research in infectious disease epidemiology.

**Guest lectures, Kent State University**

Introduction to Public Health Careers (Lynette Phillips, Instructor). *Talk on epidemiology career tracks.* Fall 2017.

Career Pathways in Biology (Gregory Tinkler, Professor).*Talk on careers in epidemiology/public health.* Spring and Fall 2013-2016.

Biosafety and Biocontainment Training (Chris Woolverton, Professor) *Talk on molecular epidemiology.* Summer 2015.

Culture and Curing, Anthropology 48250. (Evgenia Fotiou, Professor). *Talk on emerging diseases*. Spring 2015.

Zombie Outbreak, PH 20195 (John Staley, Professor). *Discussion of infectious diseases and pandemic preparedness.* Fall 2013, Spring 2014, Spring 2015.

Introduction to Public Health Careers (Lynette Phillips, Instructor). *Talk on epidemiology career tracks.* Fall 2013.

Emerging Issues in Infectious Disease Epidemiology (Epi 73025). *Talk on epidemiology research methods.* Fall 2013.

**Guest Lectures, University of Iowa**

Technical Communication (99:101). *Lecture on Communicating Science to the Public.* Spring 2013.

Environmental and Occupational Epidemiology (175:220). *Lecture on infectious hazards in occupational epidemiology.* Spring 2013.

Dead is the New Alive: The Zombie Metaphor in Contemporary Fiction, Film, and TV (8:136, English Dept, U of Iowa). *Lecture on zombie infectious diseases.* Fall 2011, Fall 2012.

Animals, Culture, and Food (113:126, Anthropology dept). *Lecture on zoonotic disease.* Fall 2010, Fall 2011, Fall 2012.

Infectious Disease Epidemiology (173:255). *Lecture on streptococci of medical importance.* Every Fall, 2006-2012.

Global Health Issues (050:281). *Lecture on emerging diseases.* Every Fall, 2005-2012.

Veterinary Public Health (173:355). *Lecture on MRSA and swine.* Summer 2011-12.

Epidemiology of Zoonotic Diseases (173:260). *Lecture on emerging swine zoonoses.* Summer 2011-12.

Chronic Disease epidemiology (173:260). *Lecture on infectious causes of chronic disease.* Every Spring, 2006-2012.

**Guest Lectures, Other Universities**

Seminar on science and the media (Mike Lemonick, Professor). *Talk on Ebola and the media*. Princeton University, Princeton, NJ. Spring 2015.

Public Health Communication (Lance Price, Professor). *Lecture on public health and social media.* George Washington University, Washington, DC. Spring 2014.

Food Production, Public Health, and the Environment (Keeve Nachman, Professor). *Lecture on Swine and MRSA*. Johns Hopkins University School of Public Health, Baltimore, MD. Spring 2012 (recorded for use in class each year).

Evolution, Society, and Humanity (A&S 195). *Lecture on evolutionary medicine.* Western Illinois University Quad Cities, Moline, IL. Every Fall, 2010-2012.

Molecular Epidemiology (Epidemiology 582). *Lecture on Bioinformatics*. University of Michigan, Ann Arbor, MI. Spring 2003.

**Independent study also offered to 35 students between 2005 and 2018.**

**Students Mentored**

**Undergraduate student interns**

**University of Iowa, 2005-2013**: Ashley Miller, Courtney Smith, Brady Miller, Phil Scheibel, Rainy Stroter, Shannon O’Reilley, Sheila Barrios, Megan Flynn (HS), Sarah Farina, Sara Hess, James Wu, Kayla Theis, Nick Crippin, LeAnne Wichman, Jeffrey Hong (HS), Hannah Shows (HS), Vivian Ortiz Baez, Fiona Armstrong-Pavlik, Vincent Lin, Samuel Stew, Tom Meirick, Adriana Pitcher, Hunter Terry, Yutao (Max) Su, Quinton Behlers.

**Kent State University, 2013-present**: Courtney Rusnak, Emily Hellwig, Arienne Orihill, Mackenzi DiPerna, Kristen Kennedy, Raven Parker, Katie Little, Victoria Mansell, Katherine Milliken, Hailee Olson (HS), Clair Yee, Mark Oet, Tiffaney Closson, Haleigh Rush (SURE), Mohit Daga, Saima Wase, Samantha Mackey (SURE), Gracen Gerbig (SURE/ASM fellowship).

**KSU undergraduate honors thesis committee**: Katie Little (fall 2015); Madeline Frederick (spring 2018)

**Graduate student interns**

**University of Michigan, 2002-2004**: Ian Spicknall (MPH), Shannon Roehl (MPH).

**University of Iowa**: Michelle Birt (MPH), Jennifer Kroeger (MS), Phillip Van de Griend (MPH), Brittany McKinnon (MS), Abby Harper (MPH), Michael Male (MS), Paul Christine (MPH), Joanna Dawson (MPH), Laura Vonnahme (MPH), Ashley O’Brien (MPH), Lisa Roberts (pre-M1), Tracy MacIntyre (MPH), Eric Hawkins (MPH), Shylo Wardyn (MS), Nicole Pearson (MPH), Rajeshwari Nair (PhD), Hiba Ahmed (MPH), Lynda Odofin (PhD), Jacob Simmering (MIK S), Andrea Holcombe (MS), Alpha Opese (MPH), Katie Yohnke (MPH), Brett Forshey (MS), Sean O’Malley (MPH), Cassie Klosterman (MS), Josh Pikorna (MS), Jessica Waters (MPH), Katie Barton (MS), Sarah Minion (MPH), Owen Parker (MPH), Kolie Eko (MS), Aline Zirakamwa (MS), Amos Nworie (PhD).

**Kent State University**: Dylan Grenier (MPH), Shanice Cheatham (MPH), Ruth Jepkosgei (MPH), Sabana Bhatta (MPH), Sandra Bempah (MPH), Jhalka Kadariya (MPH), Henok Ayalew (Czech Republic, PhD), Lucas Sensius (MPH), Emily Patterson (MPH), Vishwash Patel (MPH), Christina Heaton (MPH).

**MS Thesis/Practicum/Preceptor Advisor**

**University of Iowa**: Diana VonStein-Salvo, Carissa Rocheleau, Michael Male, Jana Fowler, Karly Newton, Thuy Nguyen, Shylo Wardyn, Anne Dressler, Blake Hanson, Ashley Kates, Elisabeth Dissen, Ashley O’Brien.

**Kent State University**: Jhalka Kadariya, Nilu Nurinova, Dylan Grenier, Emily Hellwig (independent study), Chelsea Hoch

**PhD student advisor**

**University of Iowa**: Whitney Baker Krueger, Erin Moritz, Kerry Leedom Larson, Dwight Ferguson, Blake Hanson

**Kent State University**: Ashley Kates, Genevieve Aguolu (co-advisor). Awards: 2018 Silver American Advertising (ADDY) Award Winner For "An Important to Conversation to Have: An HPV/HPV Vaccine Educational Comic Book"; Hiram College Graphic Medicine Competition For "An Important to Conversation to Have: An HPV/HPV Vaccine Educational Comic Book"

**PhD Committees**

**University of Iowa**: David Massaquoi, Rajeshwari Nair, Kendall Myers, Maggie Chorazy, Ghazi Kayali, Jennifer Kroeger, Josiah Alamu, Sarah Starks, David Haynes, Sam Messer, Ana Capuano, Erin Reynolds

**Kent State University**: James Redfearn, Mary Halpins.

**Post-doctoral fellows**

**Kent State University:** Mark Dalman, Mohammed Taha, Haji Mohammed Naimi

**IV. SERVICE**

**Editorships:** PLoS ONE (2010-present); PeerJ (2012-present); BMC Veterinary Research (2015-present)

**Grant review** **panels**

2018 National Science Center, Poland

2018 National Pork Board

2018 AAAS Saudi Arabia Excellence Awards in Microbiological Research

2017 Canada Excellence Research Chair proposal reviewer

2017 International reviewer for ZonMw- programme in Antibiotic Resistance (The Netherlands).

2015 KSU University Fellowship grant reviewer

2015 NIH Clinical Research and Field Studies (CRFS) Study Section at the NIH, Center for Scientific Review (NIH/CSR)

2014 NIH Loan Repayment Program (LRP) reviewer

2014 KSU Postdoctoral grant reviewer

2012 Health Research Board Health Research Awards (Ireland)

2012 Iowa Science Foundation

2012 Patient-Centered Outcomes Research Institute (PCORI) grant reviewer

2010 NIH Director’s Opportunity Special Emphasis Panel

2009 NIH Challenge grant reviewer

2009 USDA AFRI review panel

2009 German Federal Ministry of Education and Research, Collaborative Research Programmes on Infectious Zoonotic Diseases

2007-10 National Pork Board grant reviewer

**Conference or Symposium Organizer**

2013 Great Plains Emerging Infectious Diseases Conference. *Conference co-chair.*

2012 Great Plains Emerging Infectious Diseases Conference. *Conference co-chair.*

2012 Symposium organizer, “Sound Bites to Superbugs: How to Communicate Risk to the Public and Physicians.” American Society for Microbiology Annual Meeting, San Francisco, CA

2012 Symposium organizer, “Deadly Pets and Other Animals,” International Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA

2011 Second ASM-ESCMID International Conference on Methicillin-Resistant Staphylococci in Animals, Washington, DC. *Conference chair.*

2009 Iowa City Darwin Day celebration

2009 Informational briefing on agriculture & MRSA, Trinity River Group

2008 Iowa City Darwin Day celebration

2007 Iowa City Darwin Day celebration

2006 Intelligent Design symposium (in conjunction with Iowa Academy of Science)

2005 Intelligent Design: in your classroom? Panel discussion in association with University of Iowa Freethinkers

**Departmental, Collegiate, or University Committee Service**

2018 KSU CPH May 4 planning committee (chair)

2017-2018 KSU SOARS Brain Health Work Group

2018 KSU CPH Finance Committee

2017-present KSU CPH Collegiate Curriculum Committee (CCC)

2016-present KSU CPH Collegiate Advisory Committee (CAC)

2016-present KSU University Biosafety Committee

2016-present KSU University Laboratory Safety Committee

2016-17 KSU Provost’s Tenure Advisory Board

2016 KSU CAEST review committee

2015 KSU BEE Chair review committee

2015-16 KSU College of Public Health Dean review committee

2015-2017 KSU University Curriculum Committee

2015-present KSU CPH Curriculum Committee

2015-present KSU Undergraduate Research Symposium Judge

2015-present KSU Graduate Research Symposium Judge

2015-present KSU University Fellowship Reviewer

2014 KSU CPH dissertation format committee

2014-2017 KSU Health Management & Promotion (HPM) Retention, Tenure and Promotion Committee

2014-present KSU CPH Laboratory Biosafety Committee

2013-14 KSU Biostatistics, Environmental Health Sciences & Epidemiology (BEE) Faculty Advisory Committee

2013-2917 KSU BEE Retention, Tenure and Promotion Committee

2013-2017 KSU SBS Retention, Tenure and Promotion Committee

2013 KSU BEE Handbook development committee

2013-present KSU BEE student advisory committee

2012 CPH (Iowa) Diversity Committee sub-committee on recruitment

2012-2013 CPH Faculty Evaluation Committee

2012-2013 CPH Faculty Evaluation Committee

2011-2013 CPH Diversity Committee

2011-2013 DVM/MPH admissions committee

2010-11 CPH 3+2 degree program task force

2009-11 Department of Epidemiology MS Admissions committee

2009 CPH 10th Anniversary planning committee

2009 CPH strategic planning committee—Education subcommittee

2008-2011 CPH Faculty Council

2006-07, CPH Curriculum Committee

2011-12

2006 CPH Undergraduate Degree Task Force

2005-2013 Department of Epidemiology PhD Admissions committee

2005-06 Plan of study committee

2005-13 Student recruitment committee

2005-08 Journal club advisor

2006-08, MS Exam Committee

2012-13

**Professional Memberships and Positions**

1997-present American Society for Microbiology

*Communications Committee, 2011-2013*

*ASM Distinguished Lecturer, 2015-2017*

*ASM MICROBE Abstract Reviewer, 2018*

*ASM Council on Microbial Sciences (COMS) Division Interdisciplinary Councilor (2018-2021).*

*ASM Communications Committee (2018-2021)*

1998-04, Ohio Branch, American Society for Microbiology

2015-present

2003-04 Michigan Branch, American Society for Microbiology

2005-2013 North Central Branch, American Society for Microbiology

2001-present American Public Health Association

2001-04, Ohio Public Health Association

2016-present

2001-present Association of Women in Science

2005-2013 Iowa Public Health Association

2005-present Infectious Disease Society of America

2005-2013 Iowa Academy of Science

*Section Vice-Chair, 2008-09*

*Section Chair, 2009-10*

2005-present American College of Epidemiology

**Manuscript Referee**

Emerging Infectious Diseases, Clinical Infectious Diseases, Annals of Epidemiology, Journal of Infection and Public Health, PLoS ONE, Environmental Health Perspectives, Zoonoses and Public Health, Diagnostic Microbiology and Infectious Disease, Journal of Clinical Microbiology, Institute for Laboratory Animal Research (ILAR) Journal, Veterinary Microbiology, Vector-Borne and Zoonotic Diseases, International Journal of Hygiene and Environmental Health, Clinical Medicine and Research, Applied and Environmental Microbiology, Journal of Bacteriology and Parasitology, Risk Analysis, Journal of Equine Veterinary Science, Environmental Research, Trends in Microbiology, The Veterinary Journal, Veterinary Dermatology, The Veterinary Record, Lancet Infectious Diseases, Journal of Swine Health and Production, Japanese Journal of Infectious Diseases, Macedonian Journal of Medical Sciences, Microbial Ecology, Journal of Infectious Diseases, mBio, BMC Microbiology, Clinical Microbiology and Infection, BMC Open, Infection, Ecology & Epidemiology, Evolutionary Applications, BMC Genomics, American Journal of Infection Control, EcoHealth, Journal of Epidemiology and Global Health, Antimicrobial Resistance and Infection Control, BMC Research Notes, Science of the Total Environment, Antonie van Leeuwenhoek, Applied Microbiology, BMC Infectious Diseases, Environmental Research, Expert Review of Anti-infective Therapy, Open Forum Infectious Diseases, Journal of Medical Microbiology, Journal of Microbial Methods, Food Microbiology, International Journal of Veterinary Science and Medicine, Small Ruminant Research

**Professional Consulting**

2018 Reviewer, NRDC report “Better Bacon Wanted: Why It’s High Time the U.S. Pork Industry Used Fewer Antibiotics, More Responsibly”

2014 International Food Information Council, content consultant

2012 Wiley-Blackwell Press, manuscript consultant

2011 Columbia University Press, manuscript consultant

2011 Johns Hopkins University Press, manuscript consultant

2009 Watershed Media, manuscript consultant

2008 Pantheon Press, manuscript consultant

2005 The Upper Midwest Center for Bioterrorism Preparedness, curriculum consultant