

Jill C. Roberts

Associate Professor
University of South Florida
College of Public Health
Global and Planetary Health
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EDUCATION AND TRAINING

Indiana University, Bloomington, Indiana
Bachelor of Science in Microbiology; May 1996

University of South Florida, Tampa, Florida
Master of Public Health; May 1998
Department: Environmental and Occupational Health
Concentration: Tropical Public Health/Communicable Diseases

University of Texas, Houston, Texas
Master of Science; August 2003
Department: Microbiology and Molecular Genetics
Concentration: Microbiology and Molecular Genetics

University of South Florida, Tampa, Florida
Graduate Certificate; May 2004
Department: Global Health
Concentration: Hospital Infection Control

University of South Florida, Tampa, Florida
Doctor of Philosophy; May 2006
Department: Global Health
Concentration: Communicable Diseases

University of South Florida, Tampa, Florida
Postdoctoral Researcher; May 2006-April 2012
Center for Biological Defense
Research focus: Rapid Detection and Characterization of Biothreat Agents.

PROFESSIONAL CERTIFICATIONS

Certified in Public Health (CPH), National Board of Public Health Examiners; November 2015
Certified Food Safety Manager, National Registry of Food Safety Professionals; August 2013

ACADEMIC EXPERIENCE

Associate Professor, Teaching Pathway
University of South Florida, College of Public Health
Global and Planetary Health
August 2020 - Present

Assistant Professor, Teaching Pathway
University of South Florida, College of Public Health
Global and Planetary Health
Jan 2017 – July 2020

Concentration Co-Lead: DrPH Public Health and Clinical Laboratory Science and Practice
concentration

Assistant Professor, Tenure-earning
University of South Florida, College of Public Health
Department of Environmental and Occupational Health
2012 – Jan 2017

Assistant Professor, Tenure Earning Pathway
University of South Florida Polytechnic, College of Human and Social Sciences
Division of Social Sciences
2011-2012

Adjunct Faculty
Hillsborough Community College, Plant City Campus
Allied Health
2005-2011

Adjunct Faculty
University of South Florida, College of Public Health
Department of Global Health
2006, 2009-2010

CONSULTING

2007-2012 Surge Team Member, Tampa Bay Biowatch – Laboratory surveillance for biothreats agents.

HONORS AND AWARDS

2004 University of South Florida, Sam Bell Research Grant
2005 Elected Delta Omega National Public Health Association
2006 University of South Florida, Nominated Outstanding Dissertation Award
2006 Hillsborough Community College – Nominated Outstanding Adjunct Faculty
2018 Nominated - University of South Florida, College of Public Health Dean's Excellence in Teaching Award
2018 Food Protection Trends Most-viewed General Interest Publication Award - Article title: Prevention of Hepatitis A Through Food Handler Vaccination
2019 Nominated - ASPPH Reigelman Award for Excellence in Undergraduate Teaching
2019 Food Protection Trends Most-viewed General Interest Publication Award (2nd year awarded) - Article title: Prevention of Hepatitis A Through Food Handler Vaccination
2019 Awarded Cliff Blair Excellence in Teaching Award - College of Public Health

PROFESSIONAL AFFILIATIONS

- Member American Society for Microbiology
- Member American Society of Tropical Medicine and Hygiene
- Elected to Delta Omega Tau Honor Society
- Member American Public Health Association
- Member Florida Public Health Association
- Member Florida Association for Food Protection
- Member International Association for Food Protection
- Member Food Protection Partnerships of Florida

PUBLICATIONS AND PRESENTATIONS

Dissertation

Roberts,JC. Characterization of Community-Acquired Methicillin-Resistant *Staphylococcus aureus* by Pulsed-Field Gel Electrophoresis, Multilocus Sequence Typing, and Staphylococcal Protein A Sequencing: Establishing a Strain Typing Database. Ph.D. Dissertation. University of South Florida. Tampa, Florida May 2006.

Peer-Reviewed Manuscripts

Roberts, JC; Singh, KV; Okhuysen, P; Murray, BE. (2004) Molecular epidemiology of the *fsr* locus and of gelatinase production among different subsets of *Enterococcus faecalis* isolates. *J. Clin. Micro.* 42(5):2317-2320.

Roberts, JC; Krueger, RL; Peak, KK; Veguilla, W; Cannons, AC; Amuso, PT; Cattani, J. (2006) Community-Associated Methicillin-Resistant *Staphylococcus aureus* Epidemic Clone USA300 in Isolates from Florida and Washington. *J. Clin Micro.* 44(1):225-6.

Roberts, JC; Cannons, AC; Amuso, PT; Cattani, J. (2006) Virtual Digest Identification of Secondary Enzymes for Use in Pulsed-field Gel Electrophoresis of *Staphylococcus aureus*. *J. Microbiol. Methods.* Aug.66(2):362-8.

Roberts JC, Gulino SP, Peak KK, Luna VA, Sanderson R (2008). Fatal necrotizing pneumonia due to a Panton-Valentine leukocidin positive community-associated methicillin-sensitive *Staphylococcus aureus* and Influenza co-infection: a case report. *Ann Clin Microbiol Antimicrob.* 2008 Feb 19;7(1):5.

Veguilla, W; Peak, KK; Luna, VA; **Roberts, JC**; Davis, CR; Cannons, AC; Amuso, P; Cattani, J. (2009) Two-year study evaluating the potential loss of methicillin resistance in a methicillin-resistant *Staphylococcus aureus* culture collection. *J. Clin. Micro.* 46(10):3494-7.

Tatavarthy, A., Peak, K, Veguilla, W., Cutting, T., Harwood, V., **Roberts, J.**, Amuso, P., Cattani, J., Cannons, A. (2009) An Accelerated Method for Isolation of *Salmonella enteric* Serotype Typhimurium from Artificially Contaminated Foods, Using a Short Preenrichment, Immunomagnetic Separation, and Xylose-Lysine-Desoxycholate Agar (6IX Method). *J. Food Protection* 72(3):583-590.

Jill Roberts, Lyudmila Trenzchnikova, Lylah Seaton, Ami Patel, Colton Faza, Jacqueline Whitaker, Christen Mayer and Azliyati Azizan. (2013) Bacterial growth in media mimicking the high salt and alkalinity of extreme kazakhstan environments results in production of antimicrobial compounds in soil actinomycetes isolated from these extremophile locations. *J. Pharmaceutical Technology and Drug Research* 2(1).

Jill Roberts (2013) Community-associated Methicillin-resistant *Staphylococcus aureus* Epidemic Clone USA100; more than a nosocomial pathogen. *SpringerPlus* 2:133.

Ronan K. Carroll, Whitney N. Burda, **Jill C. Roberts**, Kealy K. Peak, Andrew C. Cannons, Lindsey N. Shaw. (2013) Draft Genome Sequence of Strain CBD-635, a Methicillin-Resistant *Staphylococcus aureus* USA100 Isolate. *GenomeA* V.1 (4)1.

Jill C. Roberts (2014) Classification of Epidemic Community-Acquired Methicillin-Resistant *Staphylococcus aureus* by Anatomical Site of Isolation. Biomed Research International. Vol. 2014 pages 1-6.

Wendy M. Swallow and **Jill C. Roberts** (2016) An Evidence-based Project Demonstrating Increased School Immunization Compliance Following a School Nurse Initiated Vaccine Compliance Strategy. *J. of School Nursing* 2016 Dec;32(6):385-389.

Jill C. Roberts (2017) Prevention of Hepatitis A through Food Handler Immunization. *Food Protection Trends*, vol. 37, no. 3, pp. 218-222.

Jeffrey Sumter (student), Adrienne Goodrich-Doctor, **Jill Roberts**, Thomas Mason. (2018) Twenty-first Century Response Efforts of the Commissioned Corps of the US Public Health Service. *J. of Emergency Management* 16(5) 311-319.

Jeffrey Sumter (student), **Jill Roberts**, Adrienne Goodrich-Doctor, Thomas Mason. (2019) Ebola Response: A study of the Psychosocial Factors of Preparedness Among Commissioned Corps Officers of the United States Public Health Service. *Military Medicine* pgs 1-7.

Matthew Weissenbach (student), Haiduven, D., **Roberts, J.**, Qutaishat, S. (2019). Composition and function of Antimicrobial Stewardship Committees in the Practice-based setting as compared to published guidelines. (in revisions).

Carisa Davis, Alison Oberne, Roberts, J. (2019). Engaging the Future Healthcare Worker in Food Safety, a Non-traditional Course Design (in revisions).

Peer-Reviewed Abstracts and Posters

2005 American Society for Microbiology General Meeting, June 4 – June 9th Atlanta, Georgia. Molecular Typing and Surveillance of *Staphylococcus aureus* isolates Using Pulsed-Field Gel Electrophoresis and Multilocus Sequence Typing. **J. C. Roberts**¹ K. K. Peak¹, W. Veguilla, Jr¹, A. C. Cannons¹, P. T. Amuso^{1,2}, J. Cattani¹;
¹Center for Biological Defense, University of South Florida, Tampa, FL, ²Bureau of Laboratories, Florida Department of Health, Tampa Branch, Tampa, FL.

2005 American Society for Microbiology, Southeastern Branch Annual Meeting, Clearwater, Florida, October 27-29th, 2005. Molecular Typing and Surveillance of *Staphylococcus aureus* isolates Using Pulsed-Field Gel Electrophoresis and Multilocus Sequence Typing. **J. C. Roberts**¹ K. K. Peak¹, W. Veguilla, Jr¹, A. C. Cannons¹, P. T. Amuso^{1,2}, J. Cattani¹;
¹Center for Biological Defense, University of South Florida, Tampa, FL, ²Bureau of Laboratories, Florida Department of Health, Tampa Branch, Tampa, FL.

2006 American Society for Microbiology General Meeting. May 21st – May 25th Orlando, Florida. Pulsed-field Gel Electrophoresis, Multilocus Sequence Typing, and Staphylococcal Protein A Gene Sequencing to Characterize Community-Acquired Methicillin-Resistant *Staphylococcus aureus*. **J. C. Roberts**¹, A. C. Cannons¹, P. T. Amuso^{1,2}, J. Cattani¹
¹Center for Biological Defense, University of South Florida, Tampa, FL, ²Bureau of Laboratories, Florida Department of Health, Tampa Branch, Tampa, FL.

2006 American Society for Microbiology General Meeting. May 21st – May 25th Orlando, Florida. Evaluation of MRSA Strains for Loss of *mecA* during Cryostorage in TSB with 10% Glycerol and in the Microbank(tm) Bacterial Preservation System. K. K. Peak¹, W. Veguilla, Jr¹, V. A. Luna¹, **J. C. Roberts**¹, A. C. Cannons¹, P. T. Amuso^{1,2}, J. Cattani¹;

¹Center for Biological Defense, University of South Florida, Tampa, FL, ²Bureau of Laboratories, Florida Department of Health, Tampa Branch, Tampa, FL.

2006 – Delta Omega National Public Health Honor Society 2006 Poster Competition. American Public Health Association Annual Meeting, Boston, MA. Use Of Pulsed-Field Gel Electrophoresis To Determine The Prevalence Of Epidemic Clones Among Community-Acquired Methicillin-Resistant Staphylococcus Aureus Isolates. **J. Roberts**, R.L. Krueger, K.K. Peak, W. Veguilla, A. Cannons, P. Amuso, J. Cattani

First Coast Infectious Disease/Clinical Microbiology Symposium. Ponte Vedra Beach, FL Jan 26-27, 2007. Pulsed-field Gel Electrophoresis, Multilocus Sequence Typing, and Staphylococcal Protein A Gene Sequencing to Characterize Community-Acquired Methicillin-Resistant *Staphylococcus aureus*. **J. Roberts**, A. Cannons, P. Amuso, J. Cattani

2007 American Society for Microbiology, General Meeting, May 21st – May 25th Toronto, ON, Canada. Sequence-Based Characterization of Community-acquired Methicillin-Resistant *Staphylococcus aureus* Isolates is Often Unsuccessful Due to Limited Genetic Diversity Among the Strains. **J. C. Roberts**¹, A. C. Cannons¹, P. T. Amuso^{1,2}, J. Cattani¹

¹Center for Biological Defense, University of South Florida, Tampa, FL, ²Bureau of Laboratories, Florida Department of Health, Tampa Branch, Tampa, FL.

2007 American Society for Microbiology General Meeting. May 21st – May 25th Toronto, ON, Canada. Progress Report on a Two Year Study of MRSA Strains for Loss of *mecA* during Cryostorage in TSB with 10% Glycerol and in the Microbank TM Bead-based Bacterial Preservation System. W. Veguilla, Jr¹, K. K. Peak¹, V. A. Luna¹, **J. C. Roberts**¹, A. C. Cannons¹, P. T. Amuso^{1,2}, J. Cattani¹;

¹Center for Biological Defense, University of South Florida, Tampa, FL, ²Bureau of Laboratories, Florida Department of Health, Tampa Branch, Tampa, FL.

2007 American Society for Microbiology General Meeting. May 21st – May 25th Toronto, ON, Canada. Rapid Identification of Hospital and Community Acquired MRSA Using Biophotometry. Y.M. Serebrennikova¹, D.E. Huffman¹, J.M. Smith¹, **J. Roberts**^{2,3}, L.H. Garcia-Rubio¹. ¹Claro Scientific, St. Petersburg, FL, ²University of South Florida, Tampa, FL, ³Center for Biological Defense, Tampa, FL.

2008 American Society for Microbiology General Meeting. June 1st – June 5th, Boston, MA. Multilocus Sequence Typing for Characterization of *Salmonella* Strains Using a Unique Combination of Housekeeping and Virulence Genes. **J. C. Roberts**¹, A. Tatavarthy¹, A. C. Cannons¹, P. T. Amuso^{1,2}, J. Cattani¹

¹Center for Biological Defense, University of South Florida, Tampa, FL, ²Bureau of Laboratories, Florida Department of Health, Tampa Branch, Tampa, FL.

2008 American Society for Microbiology General Meeting. June 1st – June 5th, Boston, MA. Accelerated Isolation of *Salmonella enterica* Serotype Typhimurium from Artificially Contaminated Foods, Using a Short Pre-Enrichment, Immunomagnetic Separation and Xylose Media (6IX method). A. Tatavarthy¹, K. Peak¹, T. Cutting¹, W. Veguilla, Jr¹, **Roberts, JC**¹, A. C. Cannons¹, P. T. Amuso^{1,2}, J. Cattani¹ ¹Center for Biological Defense, University of South Florida, Tampa, FL, ²Bureau of Laboratories, Florida Department of Health, Tampa Branch, Tampa, FL.

2009 American Society for Microbiology General Meeting. May 17th – May 21st, Philadelphia, PA. Characterization of Methicillin-Resistant *Staphylococcus aureus* Epidemic Clone USA100 Isolates Identified Among Strains Collected for Community-associated *Staphylococcus* Studies. **J. C. Roberts**¹ K. K. Peak¹, W. Veguilla, Jr¹, A. C. Cannons¹
¹Center for Biological Defense, University of South Florida, Tampa, FL

2010 American Society for Microbiology General Meeting. May 23rd – May 27th, San Diego, CA. Molecular Characterization of USA300 and USA400 Methicillin-Sensitive *Staphylococcus aureus*. **J.C. Roberts**¹ and A. C. Cannons¹
¹Center for Biological Defense, University of South Florida, Tampa, FL

2011 American Society for Microbiology General Meeting. May 21st – May 24th, New Orleans, LA. Molecular Typing and Virulence Gene Analysis of USA100 Community-Associated *Staphylococcus aureus*. **J.C. Roberts**¹ and A. C. Cannons¹ ¹Center for Biological Defense, University of South Florida, Tampa, FL

2013 American Society for Microbiology General Meeting. May 18th – May 21st, Denver, CO. Antagonistic Activities of Extremophile Kazakhstan Extracts against Drug-Resistant Hospital-Associated Pathogens. M. Baksh, L. Trenochnikova, S. Albert¹, L. Seaton, A. Patel, C.Faza¹, J. Whitaker, C. Mayer, **J. Roberts**, Y. Pathak, S. Zhou, L.Calcul, A. Azizan.

2019 Consumer Food Safety Education Conference. March 6-8th, Orlando, FL. Engaging the Future Healthcare Worker in Food Safety, a Non-Traditional Course design. **J.C. Roberts**

2019 NACCHO Orlando, FL July 9 - 11. Innovative DrPH Program at University of South Florida College of Public Health. Salfinger, M., Levine, M., Amuso, P., **Roberts, J.**, Daley, E., Zgibor, J.

Research Presentations (not previously listed)

2004 American Society for Microbiology, Southeastern Branch Annual Meeting, Jacksonville, Alabama, October 21-23rd, 2004.

2004 Annual Biodefense Researchers Consortium Meeting, Clearwater, Florida

2004 American Society for Microbiology, Southeastern Branch Annual Meeting, Jacksonville, Alabama, October 21-23rd, 2004.

2005 Annual Biodefense Researchers Consortium Meeting, Clearwater, Florida Using Pulsed-field Gel Electrophoresis to Track Epidemic Community-acquired *Staphylococcus aureus* Isolates.

2006 Annual Biodefense Researchers Consortium Meeting, Clearwater, Florida. Molecular Typing Methods – Dissertation Presentation.

2008 Annual Biodefense Researchers Consortium Meeting, Clearwater, Florida. Multilocus Sequence Typing for Characterization of *Salmonella* Strains Using a Unique Combination of Housekeeping and Virulence Genes.

2009 Annual Biodefense Researchers Consortium Meeting, Tampa, Florida. *Staphylococcus aureus* SCCmec Typing using the Bioplex.

2011 Annual Biodefense Researchers Consortium Meeting, Tampa, Florida. Molecular typing launching a *Staphylococcus aureus* database and an Assistant professor.

Invited Speaker

Bay Area Infection Control Practitioners Meeting. St. Joseph Hospital, Tampa Florida, January 25th 2008. “Update on the Status of *S. aureus* Community-associated Infections in Florida.

Spring Lecture Series, Division of Cell Biology, Microbiology and Molecular Biology, University of South Florida. February 1, 2008. “Characterization of Community-acquired Methicillin-Resistant *Staphylococcus aureus* by Pulsed-field Gel Electrophoresis, Multilocus Sequence Typing, and Staphylococcal Protein A Sequencing: Establishing a Strain Typing Database.”

2009 Biothreat Agent Workshop – Chapel Hill, NC. May 1st, 2009. “University of South Florida, Center for Biological Defense, Research and Training Capabilities.

2011 Tampa Fire Department – Tampa Florida, First Responders. Capacities of the University of South Florida’s Center for Biological Defense, laboratory update.

Toxicology Student Association – University of South Florida. 2015. “Your Food is Full of Toxins!?”

Toxicology Student Association – University of South Florida. 2016 “GMOs”

ERIC Seminar – University of South Florida. 2016. “Genetically Modified Organisms”.

WUSF – Television - Panel Discussion 2016. Genetically Modified Organisms.

St. Petersburg Conference on World Affairs - Invited Panel Discussion Member - Vaccine Hesitancy - St. Pete, FL, Feb 12-15 2019.

Back to School Coalition of Hillsborough County - Emergency Public Health Forum - Vaccines - Invited Panel Discussion Member - Hillsborough Community College, May 15, 2019.

Invited Chapter Reviews

Infectious Diseases Affecting the Gastrointestinal Tract in Microbiology a Systems Approach by Majorie Kelly Cowan. McGraw Hill NY, New York 2012.

Infectious Diseases Affecting the Genitourinary Tract in Microbiology a Systems Approach by Majorie Kelly Cowan. McGraw Hill NY, New York 2012.

FUNDED GRANTS AND CONTRACTS

Principle Investigator: Metagenetic Analysis of Bacterial Communities Found on the Surface of Florida Produce of Major Economic Significance. USF College of Public Health Funded project. Funded: \$21,000, 2015-Present.

TEACHING EXPERIENCE

Graduate Teaching History

- | | |
|----------|---|
| PHC 6515 | Food Safety
Offered Annually; Fall 2015 – Present |
| PHC 6562 | Microbiology for Healthcare Workers
Offered Fall/Spring 2017 – Present |
| PHC 7564 | Public Health Laboratory Microbiology
Summer 2018 |
| PHC 7566 | Public Health Laboratory Safety and Security
Spring 2019 |

Undergraduate Teaching History

HSC 4573	Foundations of Food Safety Offered Every Semester; 1998-2000, 2006-present
HUN 4932	Introduction to Food Safety Offered Every Semester; 2011-2013
BSC 1020	Biology of Humans Offered Every Semester; 2011-2014
MCB 1000	Microbiology Offered Every Semester; 2005-2011
MCB 1000L	Microbiology Laboratory Offered Every Semester; 2005-2011
HSC 4031	Emerging Infectious Diseases Offered Annually; 2009-2010

STUDENT COMMITTEES AND MENTORSHIP

Doctoral Mentor

Jeffrey Sumter, DrPH candidate 2015 (co-mentor) – graduated Summer 2018
Topic: An exploratory study of occupational self-efficacy and perceived preparedness among commissioned corps officers in the United States Public Health Service.

Patrick England, DrPH candidate 2015 – 2018

Ellyn Marder, DrPH candidate (co-mentor) 2017-present

Jeremy Corrigan, DrPH candidate 2017 - present

Lydia Mikhail, DrPH candidate 2017 - present

Mohammed Ourani, DrPH candidate 2017 - present

Stephanie Trammell, DrPH candidate 2017 - present

Brandon Bonin, DrPH candidate 2017 - present

Spoorthy Rao, DrPH candidate 2017 - present

Denise Lopez, DrPH candidate 2017- present

Suzanne Crowe, DrPH candidate 2018 - present

Matthew Geiger, DrPH candidate 2018 - present

Michael Perry, DrPH candidate 2018 - present

Doctoral Committee Member

Shabnam Mehra, PhD candidate (committee member) 2015 – 2016 (graduated)
Department of Environmental & Occupational Health,
USF Topic: *Asthma and air pollution*

Laike-Gebrel Abeba, PhD candidate (committee member) 2015 – present

Lindsay Blume, PhD candidate in Chemistry (committee member) 2016 – present

Mike Williams, PhD candidate in Chemistry (committee member) 2016 – present

Ernest Macghee, DrPH Candidate (committee member) 2017-present

Christina Watson, PhD candidate (committee member) 2015-2017 (graduated)

Weissenbach, Matthew, DrPH candidate (committee member) 2016-present

Patrick England, DrPH candidate (committee member) 2018 - present

MPH (Infection Control) Mentor

Jennifer Campbell 2018 - present

Maira Cotton-Caballero 2018 - present

Alyah Bridges 2018 - present

Caitlin Dougherty 2018 - present

Jessica LeGrand 2018 - present

Kristine Nawrocki 2018 - present

Sarah Schumacher 2018 - present

Wanda Tedder 2018 - present

Julie Wright 2018 - present

Thesis Committee Member

Kathleen Flickinger, MS candidate (committee member, co-PI), Graduated 2014
Department of Cell Biology, Microbiology, and Molecular Biology. Topic: *Infection and Cancer*.

MPH Special Project Advisor

Aquila Sanders, Public Health Practice, Graduated 2015
Topic: *Foodborne Illness and the Exposure to Foodborne Pathogens in Brevard County Public Schools*.

Ruchi Pancholy, Public Health Practice, Graduated 2015
Topic: *Is South Brunswick Township New Jersey's Basic Food Safety Training Program Effective?*

Seemakumari Soni, Public Health Practice, in progress.
Topic: *Public Health Practice: A Step Towards Improving Hand Hygiene Practice Among Health Care Professionals*.

Other Advising

Prit Patel – Undergraduate Honors Thesis, Topic: *Handbook for Healthy Eating for Vegetarians/Vegans*. Graduated 2015

Kristina Harand – Teaching Assistant, Foundations of Food Safety – Fall 2015

Kristina Harand – Graduate Assistant, Laboratory – Spring 2016

Andrea Bernat – Undergraduate Honors Thesis: Topic: *Perceptions of Food Scientists*.
Graduated

Stephanie Hogue – Undergraduate Honors Thesis: Topic: *Ebola virus Response* - Completed
Graduating Fall 2018.

Service

Chair, University of South Florida Undergraduate Council Spring 2017 - present

Interim Chair, University of South Florida Undergraduate Council Fall 2016

Ex-officio member, University of South Florida Faculty Senate Executive Committee 2016 - present

Ex-officio member, University of South Florida Faculty Senate 2016 - present

Member, University of South Florida Textbook Affordability TaskForce 2017-2018

Member, College of Public Health, DrPH Advisory Committee 2016 - present

Co-Chair, University of South Florida System - I4C - Curriculum Consolidation Committee -
March 2019 - Present