

# Jill C. Roberts

Professor  
University of South Florida  
College of Public Health  
Department of Global, Genomic, and Environmental Health Sciences  
13201 Bruce B. Down Blvd, MDC 56  
Tampa, FL 33612-3805  
Phone: 813-974-6985  
Email: jcrobert@usf.edu

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## EDUCATION AND TRAINING

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**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.

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## PROFESSIONAL CERTIFICATIONS

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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

Certificate – Intelligence Studies – InfraGard/Counter-terrorism Watch – August 2024

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## ACADEMIC EXPERIENCE

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**Professor**, Teaching Pathway

University of South Florida, College of Public Health  
Global, Genomic, and Environmental Health Sciences  
August 2025 - Present

**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 - Present

**Concentration 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  
May 2012 – Jan 2017

**Assistant Professor**, Tenure Earning Pathway

University of South Florida Lakeland, College of Human and Social Sciences  
Division of Social Sciences  
May 2011- May 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

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## **CONSULTING**

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

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## **HONORS AND AWARDS**

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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 (2<sup>nd</sup> year awarded) - Article title: Prevention of Hepatitis A Through Food Handler Vaccination  
2019 Awarded Cliff Blair Excellence in Teaching Award - College of Public Health

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## **PROFESSIONAL AFFILIATIONS**

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- 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
- Member Infragard Tampa Bay

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## **PUBLICATIONS AND PRESENTATIONS**

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## 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 Trenozhnikova, 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\*, 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\*, **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.

Mohammad Ourani\*, Nathan Honda, William MacDonald, **Jill Roberts** (2020) Assessment of urinalysis reflex to culture criteria: Impact on antimicrobial usage. *Intl Arabic J. of Antimicrobial Agents*. Vol 10 (3).

Jeremy Corrigan\*, Steven Butkus, Michael Ferris, **Jill Roberts** (2021) Microbial Source Tracking Approach to Investigate Fecal Waste at the Strawberry Creek Watershed and Clam Beach, California, USA. *Intl J. of Environmental Research and Public Health*. Vol 18 pg 1-16.

Mohammad Ourani\*, Nathan Honda, William MacDonald, **Jill Roberts** (2021) Evaluation of evidence-based urinalysis reflex to culture criteria: Impact on reducing antimicrobial usage. *Intl J. Infect Dis*. Vol 102, pg 40-44.

Denise Lopez\*, **Jill Roberts**, Marie Bourgeois, Joshua Kootstra, Sharon Minnick, Allison Black, Joshua Mauss, Nick Flores. (2022) Infection clusters can elevate risk of diagnostic target failure for detection of SARS-CoV-2. *PLOS One* doi.org/10.1371/journal.pone.0264008.

Lydia Mikhail\*, Megan Crumpler, Marie Bourgeois, **Jill Roberts** Validation and Implementation of Real Time PCR for Rapid Identification of *Candida auris* from Clinical Surveillance Samples in a Local Public Health Laboratory Setting (2022) MedRxiv.

Mohammed Suleiman\*, Nazik Elamin, Rhanty Nabor, **Jill Roberts**, Patrick Tang, Mohammad Rebayet Hasan, Andres Perez-Lopez. (2023) Evaluation of Immulex *S. pneumoniae* Omni test

for the direct detection of *S. pneumoniae* from positive blood cultures. Heliyon Vol 9, Issue 23 Nov 2023.

Chiribau CB, Schmedes S, Dong Y, Tarigopula N, Tekin O, Cannons A, **Roberts J**, Haiduven D, Crowe SR.\*. (2024) Detection of resistance to macrolides and fluoroquinolones in *Mycoplasma genitalium* by targeted next-generation sequencing. Microbiol Spectr 0:e03845-23.

Suleiman, Mohammed\*, Tang, Patrick; Imam, Omar, Morales, Princess; Altrmanini, Diyna; Barr, Kelli; **Roberts, Jill**, Perez-Lopez, Andres. (2024) *Clostridioides difficile* Infections in Children: What is the Optimal Laboratory Diagnostic Method? Accepted Microorganisms 2024.

Suleiman, Mohammed\*, Tang, Patrick; Imam, Omar, Morales, Princess; Altrmanini, Diyna; Barr, Kelli; **Roberts, Jill**, Perez-Lopez, Andres. (2024) Use of PCR Cycle Threshold and Clinical Interventions to Aid in the Management of Pediatric *Clostridioides difficile* Patients. Microorganisms 2024, 12(6), 1181; <https://doi.org/10.3390/microorganisms12061181>.

Maddock, K.\* , Stenger, B. **Roberts, JC**, Wynn, E., Clawson, M, Loy, JD. (2024) Development of a MALDI-TOF MS Model for Differentiating Hemorrhagic Septicemia-Causing Strains of *Pasteurella multocida* from Other Capsular Groups. J. of Microbiological Methods 227 1-8.

Maddock, K.\* , Stenger, B., Pecoraro, H, **Roberts, JC**, Loy, JD, Webb, B. (2025) Hemorrhagic septicemia in the United States: molecular characterization of isolates and comparison to a global collection. *J. Vet Diag. Invest.* 1-8.

Student authors indicated by \*

### **Peer-Reviewed Abstracts and Posters**

2005 American Society for Microbiology General Meeting, June 4 – June 9<sup>th</sup> Atlanta, Georgia. Molecular Typing and Surveillance of *Staphylococcus aureus* isolates Using Pulsed-Field Gel Electrophoresis and Multilocus Sequence Typing. **J. C. Roberts**<sup>1</sup> K. K. Peak<sup>1</sup>, W. Veguilla, Jr<sup>1</sup>, A. C. Cannons<sup>1</sup>, P. T. Amuso<sup>1,2</sup>, J. Cattani<sup>1</sup>;

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

2005 American Society for Microbiology, Southeastern Branch Annual Meeting, Clearwater, Florida, October 27-29<sup>th</sup>, 2005. Molecular Typing and Surveillance of *Staphylococcus aureus* isolates Using Pulsed-Field Gel Electrophoresis and Multilocus Sequence Typing. **J. C. Roberts**<sup>1</sup> K. K. Peak<sup>1</sup>, W. Veguilla, Jr<sup>1</sup>, A. C. Cannons<sup>1</sup>, P. T. Amuso<sup>1,2</sup>, J. Cattani<sup>1</sup>;

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

2006 American Society for Microbiology General Meeting. May 21<sup>st</sup> – May 25<sup>th</sup> 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**<sup>1</sup>, A. C. Cannons<sup>1</sup>, P. T. Amuso<sup>1,2</sup>, J. Cattani<sup>1</sup>

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

2006 American Society for Microbiology General Meeting. May 21<sup>st</sup> – May 25<sup>th</sup> 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. Peak<sup>1</sup>, W. Veguilla, Jr<sup>1</sup>, V. A. Luna<sup>1</sup>, **J. C. Roberts**<sup>1</sup>, A. C. Cannons<sup>1</sup>, P. T. Amuso<sup>1,2</sup>, J. Cattani<sup>1</sup>;

<sup>1</sup>Center for Biological Defense, University of South Florida, Tampa, FL, <sup>2</sup>Bureau 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 21<sup>st</sup> – May 25<sup>th</sup> 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**<sup>1</sup>, A. C. Cannons<sup>1</sup>, P. T. Amuso<sup>1,2</sup>, J. Cattani<sup>1</sup>

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

2007 American Society for Microbiology General Meeting. May 21<sup>st</sup> – May 25<sup>th</sup> 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, Jr<sup>1</sup>, K. K. Peak<sup>1</sup>, V. A. Luna<sup>1</sup>, **J. C. Roberts**<sup>1</sup>, A. C. Cannons<sup>1</sup>, P. T. Amuso<sup>1,2</sup>, J. Cattani<sup>1</sup>;

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

2007 American Society for Microbiology General Meeting. May 21<sup>st</sup> – May 25<sup>th</sup> Toronto, ON, Canada. Rapid Identification of Hospital and Community Acquired MRSA Using Biophotometry. Y.M. Serebrennikova<sup>1</sup>, D.E. Huffman<sup>1</sup>, J.M. Smith<sup>1</sup>, **J. Roberts**<sup>2,3</sup>, L.H. Garcia-Rubio<sup>1</sup>. <sup>1</sup>Claro Scientific, St. Petersburg, FL, <sup>2</sup>University of South Florida, Tampa, FL, <sup>3</sup>Center for Biological Defense, Tampa, FL.

2008 American Society for Microbiology General Meeting. June 1<sup>st</sup> – June 5<sup>th</sup>, Boston, MA. Multilocus Sequence Typing for Characterization of *Salmonella* Strains Using a Unique Combination of Housekeeping and Virulence Genes. **J. C. Roberts**<sup>1</sup>, A. Tatavarthy<sup>1</sup>, A. C. Cannons<sup>1</sup>, P. T. Amuso<sup>1,2</sup>, J. Cattani<sup>1</sup>

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

2008 American Society for Microbiology General Meeting. June 1<sup>st</sup> – June 5<sup>th</sup>, 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. Tatavarthy<sup>1</sup>, K. Peak<sup>1</sup>, T. Cutting<sup>1</sup>, W. Veguilla, Jr<sup>1</sup>, **Roberts, JC**<sup>1</sup>, A. C. Cannons<sup>1</sup>, P. T. Amuso<sup>1,2</sup>, J. Cattani<sup>1</sup> <sup>1</sup>Center for Biological Defense, University of South Florida, Tampa, FL, <sup>2</sup>Bureau of Laboratories, Florida Department of Health, Tampa Branch, Tampa, FL.

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

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

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

2013 American Society for Microbiology General Meeting. May 18<sup>th</sup> – May 21<sup>st</sup>, Denver, CO. Antagonistic Activities of Extremophile Kazakhstan Extracts against Drug-Resistant Hospital-Associated Pathogens. M. Baksh, L. Trenochnikova, S. Albert<sup>1</sup>, L. Seaton, A. Patel, C.Faza<sup>1</sup>, J. Whitaker, C. Mayer, **J. Roberts**, Y. Pathak, S. Zhou, L.Calcul, A. Azizan.

2019 Consumer Food Safety Education Conference. March 6-8<sup>th</sup>, 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.

2024 Association of Public Health Laboratories. Milwaukee, WI May 6-9. Doctor of Public Health in Public Health and Clinical Laboratory Science and Practice: an Educational Pathway to Address Laboratory Leadership Shortages. **Roberts, J.**; Cannons, A.; Amuso, P.; Gillis, L.

2024 NACCHO Detroit, MI July 23-26. Navigating the Path to a Public Health Doctorate in Global Infectious Diseases (DrPH in GID). Izurieta, R.; Hoare, I.; **Roberts, J.**; Campos, A.; Parikh, J.

### **Research Presentations (not previously listed)**

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

2004 Annual Biodefense Researchers Consortium Meeting, Clearwater, Florida

2004 American Society for Microbiology, Southeastern Branch Annual Meeting, Jacksonville, Alabama, October 21-23<sup>rd</sup>, 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 25<sup>th</sup> 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 1<sup>st</sup>, 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.

Premier Community Healthcare Panel – COVID-19 Facts, Myths, and Breaking Down the Barriers – Panel Discussion – August 16, 2021

Premier Community Healthcare – Facebook Live Panel – COVID-19 – January 27, 2022

Keynote Speaker – Activist Laboratory Bootcamp – Vaccine Advocacy - January 27, 2023

Invited Speaker – CDC Emerging Leader Program – DrPH in Lab Science – February 7, 2024

### **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.

### **Invited Popular Press**

Food expiration dates don't have much science behind them – a food safety researcher explains another way to know what's too old to eat. The Conversation. Sole Author.  
<https://doi.org/10.64628/AAI.h7mgfew7t>

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## **FUNDED GRANTS AND CONTRACTS**

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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.

Principle Investigator: USF-APHL Doctor of Public Health in Public Health and Clinical Laboratory Science and Practice Scholarship. Subaward to USF via APHL. Funded \$1.2 million 2021-2026.

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## **TEACHING EXPERIENCE**

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### **Graduate Teaching History**

- PHC 6515     Food Safety (Online/Live)  
Offered Annually; Fall 2015 – Fall 2021
- PHC 6562     Microbiology for Healthcare Workers (Online)  
Offered Fall/Spring 2017 – Present
- PHC 7564     Public Health Laboratory Microbiology (Hybrid)  
Offered Annually; Summer 2019 - present
- PHC 7566     Public Health Laboratory Safety and Security (Online)  
Offered Annually; Spring 2019 – present
- PHC 7908     Specialized Project (Dissertation Chapters)  
Offered all semesters 2019 – present
- PHC 7919     Doctoral Project (Doctoral Project Completion)  
Offered all semesters 2019 – present
- PHC 6943     Integrated Learning Experience (ILE)  
Offered all semesters 2019 – present
- PHC 6949     Applied Practice Experience (APE)  
Offered all semesters 2019 - present

### **Undergraduate Teaching History**

- HSC 4573     Foundations of Food Safety (Live/Online)  
Offered Every Semester; 1998-2000, 2006-present
- HUN 4932     Introduction to Food Safety (Online)  
Offered Every Semester; 2011-2013
- BSC 1020     Biology of Humans (Online)  
Offered Every Semester; 2011-2014
- MCB 1000     Microbiology (Live)  
Offered Every Semester; 2005-2011
- MCB 1000L     Microbiology Laboratory (Live)  
Offered Every Semester; 2005-2011

HSC 4031 Emerging Infectious Diseases (Online)  
Offered Annually; 2009-2010

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## STUDENT COMMITTEES AND MENTORSHIP

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### **Graduated Doctoral Students – Mentor (Faculty Advisor)**

Jeffrey Sumter, DrPH – graduated Summer 2018

*Dissertation Title: An exploratory study of occupational self-efficacy and perceived preparedness among commissioned corps officers in the United States Public Health Service.*

Ellyn Marder, DrPH (co-mentor) – graduated Spring 2020

*Dissertation Title: Evaluating and improving representativeness of the foodborne diseases active surveillance network.*

Mohammed Ourani, DrPH – graduated Fall 2020

*Dissertation Title: Implementation of Evidence-based Urinalysis Reflex Criteria: Impact on Combating Antimicrobial Resistance.*

Jeremy Corrigan, DrPH – graduated Spring 2021

*Dissertation Title: Implementation of microbial source tracking in a public health laboratory to investigate recreational waterways.*

Brandon Bonin, DrPH – graduated Spring 2021

*Dissertation Title: Targeted sequencing of SARS-CoV-2: an effective tool in the infection prevention and communicable disease investigator handbook.*

Denise Lopez, DrPH – graduated Fall 2021

*Dissertation Title: Genomic sequencing of SARS-CoV-2 to guide public health actions in the Southern San Joaquin valley of California*

Lydia Mikhail, DrPH – graduated Summer 2022

*Dissertation Title: Evaluation and application of whole genome sequencing and rapid identification methods for Candida auris to enhance disease prevention, control, and surveillance in a public health laboratory setting.*

Patrick England, DrPH – Co-Mentor, graduated Fall 2022

*Dissertation Title: Direct and Indirect Costs of Work-Related Musculoskeletal Disorders in a Perishable Prepared Food Manufacturing Facility.*

Matthew Geiger, DrPH – graduated Spring 2023

*Dissertation Title: The comparison of high-throughput small volume method for PFAS compounds in water to large volume methods.*

Suzanne Crowe, DrPH – graduated Summer 2023

*Dissertation Title: Validation and evaluation of the novel use of Whole Genome Sequencing for detection of macrolide and fluoroquinolone resistance in Mycoplasma genitalium*

Stephanie Trammell, DrPH – graduated Fall 2023

*Dissertation Title: Development of a Fast Real Time Polymerase Chain Reaction (FRT-PCR) diagnostic assay for the detection of M. genitalium and antibiotic drug-resistance markers for improving patient care, using publicly accessible design resources.*

Spoorthy Rao, DrPH – graduated Spring 2024

*Dissertation Title: Development of Real-Time Polymerase Chain Reaction (PCR) Assays for Mycobacterium abscessus Species/Subspecies Identification and Detection of Macrolide Resistance, and Next Generation Sequencing (NGS) for Clinically Significant Non-Tuberculous Mycobacterial (NTM) Identification*

Stacey Peralta, DrPH – graduated Spring 2024

*Dissertation Title: Surveillance of Carbapenem-Resistant Enterobacterales from Wastewater Treatment Plant Samples Using Targeted Next Generation Sequencing Methods*

Mohammed Suleiman, DrPH – graduated Spring 2024

*Dissertation Title: Laboratory Diagnosis for Clostridioides difficile Infections in Children*

Micheal Perry, DrPH – graduated Fall 2024

*Dissertation Title: Design and Validation of a real-time Polymerase Chain Reaction for the detection of Clostridium species*

Kelly Maddock, DrPH – graduated Summer 2024

*Dissertation Title: Development of a Novel Capsular Typing Method for Pasteurella multocida by Matrix-Assisted Laser Desorption Time-of-Flight (MALDI-TOF) Mass Spectrometry*

Jennifer Bullard, DrPH – graduated Summer 2024

*Dissertation Title: Seasonal patterns of co-respiratory infections with COVID-19 and enterovirus D68, and prevalence of enterovirus D68 when tested by BioFire® Respiratory 2.1 panel on nasopharyngeal samples from symptomatic pediatric patients, from December 2020 to December 2021.*

Charbel Khalil, DrPH – Graduated Spring 2025

*Dissertation Title: Development of an opioid wastewater testing surveillance system using liquid chromatography mass spectrometry in a public health laboratory to investigate drug abuse patterns and inform overdose prevention efforts.*

Lylah Seaton, DrPH – Graduated Fall 2025

*Analyzing Urines For Drugs of Abuse and Sexually Transmitted Infections as Comorbid Condition.*

Anna-Liza Manlutac, DrPH – Graduated Fall 2025

*Enhancing Influenza A, SARS-CoV-2 and Hepatitis A: Integrating Wastewater-Based Epidemiology with Traditional Surveillance in Correctional Setting.*

Monica Bustos, DrPH – Graduated Fall 2025

*Genomic Sequencing Method for Detection of Respiratory Infectious Pathogen Outbreaks.*

**Current Doctoral Students – Mentor (Faculty Advisor)**

Jill Ortiz-Santiago, DrPH

Marvin Coombs, DrPH

Alfredo Camacho, DrPH

Christopher Dinanzio, DrPH

Nabil Latif, DrPH

Kimberly McCarthy, DrPH

Elliot Omo-Edu, DrPH

Rebekeh Tiller, DrPH

Lina Castro, DrPH

Jared Hoffman, DrPH

Theresa Savidge, DrPH

Ismael Rodriguez, DrPH

LaTisha Isaiah, DrPH

Laurie Veal, DrPH

Heather Davenport, DrPH

Nicole Ayres, DrPH

Shawn Moloney, DrPH

Melissa Guenther, DrPH

Alyssa Hughes Durfey, DrPH

Lindsay Jolly, DrPH

Sarah Preston, DrPH

Andrew Agudelo, DrPH

Kristin Carpenter-Azevedo, DrPH

Tae Kim, DrPH

Jennifer Lewis, DrPH

Jonathon Scott, DrPH

David Silva, DrPH

Dana Woell, DrPH

Cristi Palacios-Cross, DrPH

Kathryn Fitzpatrick, DrPH

Rensen Khoshabian, DrPH

Jasmine Paul, DrPH

Zebene Deresse, DrPH

Calvin Lung, DrPH

Joyce Olabisi, DrPH

Regina Gallick Bertolucci, DrPH

Danielle Morrow, DrPH

Erica Leasure, DrPH  
Jasmine Guillet, DrPH  
Ikechuka Aguilera-Nauchika

### **Doctoral Committee - Member**

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

Christina Watson, PhD (committee member) graduated Spring 2018  
*Topic: Impact of cigarettes and study characteristics on smoking behaviors, smoke exposure, and study design.*

Weissenbach, Matthew, DrPH (committee member) graduated Spring 2019  
*Topic: Composition and function of antimicrobial stewardship committees in the practice-based setting as compared to published guidelines.*

Ernest McGahee, DrPH (committee member) graduated Summer 2019  
*Topic: Automated technologies and robotics as quality improvements in clinical and population surveillance studies.*

Katrinah Tirado, PhD – Chemistry Department USF (committee member/defense Chair)  
graduated Fall 2023  
*Topic: Zinc-Mediated Reductive Acylation and Silylation of Various p-Quinone Derivatives*

### **Graduated MPH Students – Practicum (ILE/APE) Advisor (Infection Control unless indicated)**

Tina Grindle – Fall 2021  
*Topic: Sources of Hospital-Acquired Pseudomonas aeruginosa Outbreaks: A Literature Review*

Lauren Reuter – Fall 2021  
*Topic: Effectiveness of treating recurrent Clostridioides difficile infections through reconstitution or manipulation of the gut microflora: a literature review*

Madison Weaver – Summer 2022  
*Topic: Dynamic interface between the human gut microbiome, pediatric enteric diarrheal disease risk and outcomes, and its potential as a target for disease prevention and control*

Heather Averett – Fall 2022  
*Topic: An In-Depth Look into the Investigation Process, Soft Skills Needed, and Reporting Requirements of Investigating Reportable Enteric Diseases*

Jennifer Corrigan – Fall 2022

*Topic: ATP Bioluminescence Effectiveness as an Evaluation Tool to Assess Healthcare Surface Cleanliness During Healthcare Intervention Programs*

Amber Harvey – Fall 2022

*Topic: Comparing Patient and Physician-Targeted Interventions that help Reduce Antibiotic Prescribing and Usage*

Coral Holly – Fall 2022

*Topic: A Review of Educational Recommendations for Developing Countries as Primary Prevention Methods for CRBSI Prevention in Pediatric Oncology Patients*

Dara Russell – Fall 2022

*Topic: Literature Review of Disease Surveillance Systems Utilized within the U.S. and their Effects on the Population*

Julie Wright – Fall 2022

*Topic: Career Pathway for the Infection Preventionist to Improve Recruitment and Retention*

Paige Houser – Spring 2023

*Topic: Sexually Transmitted and Infectious Diseases in the United States Military*

Olivia Kraft – Spring 2023

*Topic: Systematic Review of the Efficacy of and Adherence to Hand Hygiene Practices in the Veterinary Medical Field*

Aian Rodriguez – Spring 2023

*Topic: A Systematic Review on the Impact of Natural Disasters and Infectious Diseases*

Lauren Alfonso – Spring 2023

*Topic: HPV Vaccination Programs and Herd Immunity Among Heterosexual Men*

Kristin Boyar – Summer 2023

*Topic: The Clinical Utility of Methicillin-Resistant Staphylococcus aureus (MRSA) Nasal Polymerase Chain Reaction (PCR) in Ruling out MRSA Infections: A Systemic Literature Review with Implications for Antimicrobial Stewardship.*

Owen Renault – Summer 2023

*Topic: Surveillance of Peripheral Intravenous Catheter Adverse Events*

Jamie Udell – Summer 2023

*Topic: Infection Control and COVID19 During the Perinatal Period: A Systemic Literature Review.*

Jeffane Mompremier – Summer 2023 – Global Communicable Diseases

*Topic: Effects of Dengue Virus Infection on the Neurological System*

Ismaly Cruz – Fall 2023

*Topic: What Catheter-associated Urinary Tract Infection (CAUTI) Prevention Policies, Interventions, and Barriers Exist Between Clinical and Administrative Levels for Adult Inpatients in United States Hospitals?*

Suetping Lau – Spring 2024

*Topic: What is the New Role of Chlorhexidine Oral Care in Preventing Ventilator Associated Pneumonia in the Intensive Care Unit?*

Alexander Sitaras – Spring 2024

*Topic: Masking to Prevent the Transmission of Covid19 in Clinical Settings*

Lauren Kelley – Spring 2024

*Topic: Comprehensive Sex Education: A Critical Tool for Sexually Transmitted Infection Prevention among Adolescents*

Breanne Beymer – Spring 2024

*Topic: Current Recommended Personal Protective Equipment for COVID-19*

Tracy Shipe – Fall 2024

*Topic: Infection Prevention & Control in the Postmortem Setting: A Systematic Review of the Literature*

Regina Gallick Bertolucci – Fall 2024

*Multiple Drug-Resistant Organisms (MDROs): A Focus on Carbapenem-Resistant Organisms*

Aneta Tarasiuk-Rusek – Spring 2025

*Topic: Educational Methods in Promotion of Infection Prevention and Control Strategies for Advanced Medical Learners: Systematic Literature Review*

Maria Tarnoi – Spring 2025

*Topic: Assessment of Infection Control Knowledge and Training Efficacy Among Healthcare Workers in Congregate Settings During the COVID-19 Pandemic: A Comprehensive Review and Analysis*

### **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.*

Lindsay Blume, MS Chemistry, (committee member) Graduated 2022.

*Topic: Synthesis and Antibacterial Testing of Novel Thiosulfonate Compounds*

### **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, Graduated 2018

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 Spring 2017

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

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### **Service**

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Faculty Senate Officer – Sargeant at Arms – Externally Nominated/Elected Spring 2024

USF Faculty Senate Committee on Committees – Chair Spring 2024 – Spring 2026

Member USF Faculty Senate Executive Committee – Spring 2024 – August 2026

Senator, USF Faculty Senate, College of Public Health representative – February 2023 – Spring 2026

Member, USF Graduate Council – February 2022 - Present

Member, USF College of Public Health – Faculty Affairs Committee – August 2023 – Fall 2025.

Strategic Area Lead, College of Public Health, Global and Planetary Health -January 2022 – May 2023.

Chair, University of South Florida Undergraduate Council Spring 2017 – January 2021

Interim Chair, University of South Florida Undergraduate Council Fall 2016

Ex-officio member, University of South Florida Faculty Senate Executive Committee 2016 – January 2021

Ex-officio member, University of South Florida Faculty Senate 2016 – January 2021

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

Member, College of Public Health, DrPH Advisory Committee 2016 - 2020

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