



Idaho State Police Forensic Services



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Lab Improvement/Quality Manager
Idaho State Police Forensic Services
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Education:

2009 Florida State University – Tallahassee, FL
Ph.D. Molecular Biophysics/Biomedical Engineering

2003 Clarkson University – Potsdam, NY
B.S. BioMolecular Science

Experience:

4/2021 – Present Idaho State Police Forensic Services
Lab Improvement – Quality Manager

7/2020 – 4/2021 Florida Department of Agriculture and Consumer Services
Environmental Administrator – Biology Laboratory

10/2017 – 7/2020 Florida Department of Agriculture and Consumer Services
Biological Administrator II – Molecular Biology Section

7/2013 – 10/2017 Florida Department of Agriculture and Consumer Services
Biological Administrator I – Molecular Biology Section

9/2011 – 7/2013 Florida Department of Agriculture and Consumer Services
Biological Scientist III – Molecular Biology

11/2009 – 9/2011 Florida Department of Agriculture and Consumer Services
Biological Scientist II - Microbiology

Professional Organizations; Committees; Working Groups:

2016 – 2020 Association of Public Health Laboratories – Member

2018 – 2019 International Association for Food Protection – Member

<https://isp.idaho.gov/forensics>

EQUAL OPPORTUNITY EMPLOYER

Revised 1/23/19

(Type your name here)

Continuing Education; Association Meetings; Conferences:

2014 – 2019 USDA FERN Annual Face to Face Network Meeting

2016 – 2019 FDA FERN Annual Face to Face Network Meeting

2019 PulseNet SouthEast Regional Meeting

2018 CDC/DSAT Select Agent Program Annual RO/ARO Conference

2018 International Association for Food Protection Annual Meeting – Travel Scholarship Award Winner

2017 Association of Public Health Laboratories Annual Meeting

2016 – 2017 Association of Public Health Laboratories Emerging Leader Program Cohort 9 Member

2016 CDC/DSAT Select Agent Program Annual RO/ARO Conference

2016 International Association for Food Protection Annual Meeting

2015 PulseNet/InFORM Conference

2015 GenomeTrakr Annual Network Meeting

2010 30th Annual Kansas State University Rapid Methods in Microbiology Workshop

Teaching; Presentations:

2019 Adding a Whole Genome Sequencing Method to the ISO 17025 Scope of Accreditation. FDA FERN Network Meeting, Baltimore, MD.

2019 Implications of Genome Sequencing for Food Producers. Florida Food Safety and Food Defense Advisory Council Meeting, Tallahassee, FL.

2017 Whole Genome Sequencing and the Food Lab: Moving Forward with Outbreak Detection. FAFP Annual Meeting, Jacksonville, FL.

2016 Whole Genome Sequencing and the Food Lab: Moving Forward with Outbreak Detection. FDA Rapid Response Teams Annual Meeting, Savannah, GA.

2016 Whole Genome Sequencing: The New Frontier of Outbreak Detection. Florida Rapid Response Team Annual Meeting Presentation, Orlando, FL.

2015 Whole Genome Sequencing: The New Frontier of Outbreak Detection. AgScience Café Presentation, Florida Department of Agriculture and Consumer Services, Tallahassee, FL.

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- 2012 Comparison of Diversilab and PFGE for Subtyping of *Listeria monocytogenes* Isolated from Food and Laboratory Process Controls. 2012 ASM General Meeting, PulseNet Update Meeting.
- 2008 1H Spectroscopic Analysis of hMSC Microenvironment in a 3-D Perfusion Bioreactor. TERMIS North America Meeting, AIChE Annual Meeting, Southeastern Stem Cell Conference.
- 2007 NMR Spectroscopic Analysis of hMSCs in a 3-D Perfusion Bioreactor. BMES Annual Meeting.
- 2006 Development of a NMR Compatible Perfusion Bioreactor for hMSC Cardiomyocyte Differentiation. BMES Annual Meeting.

Validations Completed:

- 2015 Internal Validation of the Illumina MiSeq for Whole Genome Sequencing of Bacterial Isolates
- 2013 Internal Validation of a real-time PCR based Method to Detect O157 and non-O157 “Big Six” Shiga toxin producing *E. coli* using the ABI 7500.
- 2010 – 2012 Center for Veterinary Medicine Validation of Screening and Detection of Foodborne Pathogens in Pet Food

Research; Publications:

Jason Crowe. *DNA Sequencing: Keeping Your Food Supply Safe.* Florida Restaurant and Lodging Magazine. September 2015 pp 28-9.

http://issuu.com/floridarestaurantandlodgingmagazine/docs/15frla_fallwinter/28

Crowe, J.J., et al., *A magnetic resonance-compatible perfusion bioreactor system for three-dimensional human mesenchymal stem cell construct development.* *Chemical Engineering Science*, **66(18)**, 4138-4147. (2011). doi:10.1016/j.ces.2011.05.046

Crowe, Jason J. *Development and Implementation of an NMR-Compatible Perfusion Bioreactor to Study hMSC Microenvironment.* Florida State University Doctoral Dissertation. July 2009.

Aguirre, K., **Crowe, J.**, Haas, A., Smith, J. *Resistance to *Cryptococcus neoformans* infection in the absence of CD4+ T cells.* *Medical Mycology*, **42(1)**, 15-25. (2004)