



Idaho State Police

Service Since 1939



Colonel Ralph W. Powell
Director

C.L. "Butch" Otter
Governor

Celena D. Shrum

Forensic Scientist II
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EDUCATION

Pending	Idaho State University- Pocatello, ID Master of Science- Microbiology
2009	Idaho State University- Pocatello, ID Bachelor of Science- Microbiology

EXPERIENCE

08/2011–Present	Idaho State Police Forensic Services Forensic Scientist- Blood Toxicology Analysis
08/2005–05/2011	Idaho State University Department of Biological Sciences Research Analyst Duties: data collection of extreme microbes, DNA isolation, PCR amplification, DNA purification and quantification, DNA sequence sample preparation, editing and alignment

TESTIMONY

I have testified in Idaho courts as an expert witness in the field of blood toxicology analysis

CONTINUING EDUCATION; ASSOCIATION MEETINGS; CONFERENCES

2013	-Joint Meeting of the California Association of Toxicologists and the Southwestern Association of Toxicologists (Las Vegas, NV)
	-LC/MS/MS Validation of a Cannabinoid and Benzodiazepine Method with Comparison to the Proposed SWGTOX Method Validation Standards (RTI and Virginia DFS, online)

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EQUAL OPPORTUNITY EMPLOYER

Revised 9/24/14

Celena D. Shrum

- 2012
- Robert F. Borckenstein Course on the Effects of Drugs on Human Performance and Behavior (Philadelphia, PA)
 - Courtroom Presentation of Evidence (Boise, ID)
 - West Virginia University Online Courses
 - Perspectives in Expert Testimony
 - Forensic Mass Spectrometry
 - Fundamentals of Forensic Toxicology
- 2011
- Ethics in Forensic Science (West Virginia University, online)

VALIDATIONS COMPLETED

- 2012
- Validation of a derivitization option for an existing method with the goal of increasing sensitivity for several drugs (primary validator; data analysis in conjunction with Toxicology Discipline Leader, Anne Nord)

TEACHING; PRESENTATIONS

- 2014
- Forensic Science (Pocatello High School)
- 2013
- Forensic Science (Pocatello High School)
- 2012
- Forensic Science (Marshall Public Library Community Education)
 - Forensic Science (Pocatello High School)
- 2010
- Poster Presentation
 - Shrum, C.**, Cherry, M., Sheridan, P. DeVeaux, L., *Relationship Between Halotolerance and Ionizing Radiation Resistance of Antarctic Bacteria*, American Society for Microbiology 110th General Meeting, San Diego, California.
- 2008
- Poster Presentation
 - Shrum, C.**, Downey, J., Pierson, B., Hobdey, S., DeVeaux, L., *Genetic Regulation of the Persistent State in Deinococcus radiodurans*, American Society for Microbiology Intermountain Branch Meeting, Logan, UT.

Celena D. Shrum

- 2007 -Poster Presentation
-**Shrum, C.**, Watts, C., Newbold, W., Hansen, S., Kelchner, S.,
The D4 Set: Using Intron Structure to Target Rapidly Evolving Chloroplast Loci in Flowering Plants, Undergraduate Research Symposium, Idaho State University, Pocatello, ID.

RESEARCH; PUBLICATIONS

- 2009-2011 Research: The Relationship Between Halotolerance and Ionizing Radiation Resistance of Antarctic Bacteria
- 2009 Watts, C. D., Fisher, A. E., **Shrum, C. D.**, Newbold, W. L., Hansen, S., Liu, C. and Kelchner, S. A. (2008), The D4 set: primers that target highly variable intron loops in plant chloroplast genomes. *Molecular Ecology Resources*, 8: 1344–1347.

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