

# Donald Scott Horrell

## Objective

Utilize my teambuilding abilities, leadership skills, and technical laboratory experience to facilitate the Public Health Laboratory's mission to provide analytical and technical laboratory information in support of state and national public health programs.

## Education

### **B.S. Biochemistry & Molecular Biology, 1999**

University of Alaska, Fairbanks

### **M.S. Biochemistry, 2003**

University of Nevada, Las Vegas

## Professional Experience

**State of Alaska Public Health Laboratory** - Chemist IV - September 2019 to present.

### *Instruments and Methods*

- Trace level testing of drugs of abuse in blood by LC-MS/MS for the DUID program.
- Trace level testing of drugs of abuse in urine by LC-MS/MS for the CINA program.
- Abrin and ricin testing in urine by LC-MS/MS for the LRN-C program.
- Organophosphorus nerve agent testing in blood serum and urine by LC-MS/MS for the LRN-C program.
- Tetramethylene disulfotetramine (tetramine) testing in urine by GC-MS for the LRN-C program.
- Ethylene glycol testing in blood serum by GC-MS for medical patients.
- Toxic alcohol testing in whole blood and serum by GC-MS for medical patients.

**SGS North America** - July 2005 to August 2019

### *Instruments and Methods*

- Oil & Grease (10 years) - EPA 1664A method.
- Ion Chromatography (2 years) - EPA 300.0 and SW9056 methods.
- ICP-MS and Optical (2 years) - EPA 200.7 and SW6010B methods.
- Microbiology Analyst (14 years) - Methods SM9215B, 9222B, 9222D, 9223B, and BOD.
- GC analyst (2 years) - AK 102/103, EPA 8015 and EPA 8082.
- GC-MS analyst (11 years) - SW826 8260, EPA 524.2, EPA 624, SW846 8270D, EPA 625, EPA 1625B (sulfolane), SW846 8270D-SIM (PAH's and Pesticides), EPA 504.1.

### *Leadership Positions*

- Perform internal audits on a wide range of methods and procedures (10 years).
- Internal Audit Coordinator (2 years) - Conduct internal audits and oversee the progress of the auditors, compile reports for the QC manager and report results at the yearly management meeting.
- Microbiology Laboratory Supervisor (2 year) - Train and assist new analysts, answer questions on quality control, samples, results, and procedures. Compare current SOP's and procedures against standard methods. Write, review and edit SOP's for laboratory procedures.
- Primary Analyst (2 years) for the semi-volatiles department - Train and assist new analysts, answer questions on quality control, samples, results and procedures. Compare current SOP's and procedures against the relevant methods. Write, review and edit SOP's for laboratory procedures. Meet with analysts to discuss sample load, rushes and problems. Meet regularly with the lab manager to discuss current activities and meet weekly with the project managers.

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- Primary Analyst for mobile labs - Review/write project scopes, SOP's and reporting sheets for clients. Train secondary analysts in procedures and methods. Set up and certify mobile labs, for both state and federal DOD sites. Extract, analyze and report sample results to the client for AK 102/103 and EPA 8082 methods. Discuss and answer any problems or questions the client has so we can meet their needs and schedule.
- CAR committee - Corrective action report committee to discuss problems that occur within the laboratory and determine responses.

### **Analytica Alaska Inc.** - June 2004 to January 2005

- Extraction lab (5 months) and the Microbiology lab for methods including: AK102/103, BOD, COD, Nitrite, Presence/Absence, and EPA Methods 610, 552.2, and 508.
- GC analyst (2 months) - AK 102/103 and EPA 610 methods.

### **State of Alaska Virology Laboratory** - Internship - January 1998 to April 1998

- Incubate viruses in tissue culture and by shell vial assay. Observe tissue cultures for CPE. Stain viruses and assess slides for testing. Grow and maintain cell culture lines.
- Test new procedure for the varicella zoster virus (chicken pox).

### **Continuing Education**

Course Title	Source of Training	Date(s) of Training
Level 2 Security Awareness Certification	CJIS Online	5/18/2023
Security and Privacy: General Role	CJIS Online	3/19/2024

### **Court Testimony**

Testimony	Period of time	Times in Court
Controlled Substances (DUID)	2024 to present	

### **Publication**

Somatostatin and g-Aminobutyric Acid Inhibit Interleukin-1B-Stimulated Release of Interleukin-6 for Rat C6 Glioma Cells. Journal of Neuroimmunomodulation: [01 Jan 2004, 11(5):332-340].

Cytokine and neurotransmitter regulation of glial cell production of IL-6; indications for neurodegenerative disorders. [2002, UNLV Retrospective These & Dissertations. 1485].

### **COLLEGE COURSEWORK SUPPLEMENT**

Course #	Course Title	Semester Credits
<u>Advanced Studies (post-graduate work)</u>		
Chem 793	Neuropeptides	3.0
Bio 796	Biochemistry Lab	2.0
Bio 701	Ethics of Scientific Research	1.0
Chem 772	Nucleic Acid Chemistry	3.0
Chem 770	Protein Chemistry	3.0
Chem 793	Special Topics – Neurochemistry	3.0

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Course #	Course Title	Semester Credits
<u>Core Undergraduate Studies</u>		
Chem F105	General Chemistry I	4.0
Biol F105	Fundamentals of Biology I	4.0
Phys F103	College Physics I	4.0
Chem F106	General Chemistry II	4.0
Biol F106	Fundamentals of Biology II	4.0
Phys F104	College Physics II	4.0
Math F200	Calculus I	3.0
Math F201	Calculus II	3.0
Math F202	Calculus III	3.0
Chem F212	Chemical Equilibrium and Analysis	3.0
Chem F213	Quant Analysis Lab	1.0
Biol F262	Principles of Genetics	4.0
Biol F342	Microbiology	4.0
Biol F442	Advanced Microbiology	4.0
Chem F321	Organic Chemistry	3.0
Chem F322	Organic Chemistry	3.0
Chem F324	Organic Laboratory	3.0
Chem F331	Physical Chemistry	3.0
Chem F332	Physical Chemistry	3.0
Chem F451	General Biochemistry	3.0
Chem F452	Biochemistry Lab	3.0
Chem F488	Chem/Biochem Research	3.0
Chem F497	Natural Product Research	1.0