
Erin Alex

erin@chematox.com

EDUCATION

- University of Northern Colorado, Greeley, CO** *4 Years*
Chemistry, Medical Technology Emphasis
- University of Colorado at Boulder, Boulder, CO** *1 Semester*
Biochemistry

EXPERIENCE

- ChemaTox Laboratory, Inc.** *August 2006-Present*
Forensic Chemist/Toxicologist, Lab Director
- Responsible for alcohol analyses in blood samples. Validation and calibration of the Head-space Gas Chromatographs. Other responsibilities include the analysis of blood and other body fluids for the presence of drugs and other toxic substances using Enzyme Linked Immunoassay and Gas Chromatography/Mass Spectrometry. Providing services to governmental and private agencies for analysis of body fluids and tissues for alcohol, drugs and other toxic substances. Provides expert testimony on alcohol analysis and drug determination.
- University of Northern Colorado** *Spring 2002*
Diagnostic Microbiology Laboratory Assistant
- Autoclave, preparation of agars for general microbiology labs and graduate research. Differentiation of infectious bacteria such as E. Coli, Staphylococcus, Streptomonas, and Pseudomonas. Field swabs and infectious water bacteria research.
- University of Northern Colorado** *Spring 2001-Fall 2001*
Organic Chemistry Lab
- Titration, Gas Chromatography, Mass Spectroscopy, Thin Layer Chromatography, Extraction and Distillation Microbiology Lab. Staining techniques such as Gram Stain, Flagella Stain, Identification of bacteria through agar reactions, Phase and Light microscopes, Bacterial growth research with different mediums.
- University of Northern Colorado** *Spring 2001*
Genetics Lab
- DNA fingerprinting of bacteria, Genetic research of fruit flies.
- University of Northern Colorado** *Fall 1997-Spring 1998*
General Chemistry Lab
- Basic Chemistry lab skills, Spectrophotometry, compound preparation, acids, bases, buffers, and metallic chemistry.

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Jennifer M. Hoover, B.A.
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EDUCATION

- University of Colorado at Boulder, Boulder, CO** *May 2011 (Anticipated)*
B.A. Psychology - Neuroscience
- University of Colorado at Boulder, Boulder, CO** *2008*
B.A. Molecular, Cellular and Developmental Biology
• Certificate: Neuroscience
• Graduated with Distinction and Departmental Honors
- Red Rocks Community College, Lakewood, CO** *2005*
Emergency Medical Technician - Basic

EXPERIENCE

- ChemaTox Laboratory, Inc.** *December 2010-Present*
Forensic Chemist, Assistant Lab Director
• Responsible for alcohol analysis in blood samples. Validation and calibration of the Head-space Gas Chromatographs. Other responsibilities include the analysis of blood and other body fluids for the presence of drugs and other toxic substances using Enzyme Linked Immunoassay and Gas Chromatography/Mass Spectrometry. Providing services to governmental and private agencies for analysis of body fluids and tissues for alcohol, drugs and other toxic substances. Supervise laboratory operations and train personnel.
- University of Colorado at Boulder, Dept of Molecular, Cellular and Developmental Biology** *Fall 2007-Fall 2010*
Teaching Assistant
• Responsible for many sections of the undergraduate Introduction to Molecular Biology laboratory class and the Genetics laboratory class. Wrote and graded quizzes, assisted with maintaining the student laboratory equipment, and preparing the labs the students performed. Assigned final grades.
- University of Colorado at Boulder, Dept of Psychology and Neuroscience** *August 2009-September 2010*
Professional Research Assistant/Laboratory Manager
• Provided general lab maintenance including preparing solutions, equipment maintenance, ordering laboratory supplies, and preparation of commonly used reagents. Performed a variety of laboratory techniques including but not limited to in situ hybridization, Northern Blotting, Western blotting, electrophysiology, gel electrophoresis, and polymerase chain reaction. Contributed intellectually to the goals and environment of the laboratory including

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figure preparation and manuscript proofreading for journal submission.

University of Colorado at Boulder, Dept of Molecular, Cellular and Developmental Biology *July 2008-July 2009*

Professional Research Assistant/Laboratory Manager

- Provided general lab maintenance including preparing solutions, equipment maintenance, ordering laboratory supplies, and preparation of commonly used reagents. Perform and design experiments aimed at elucidating mechanisms of mRNA turnover. Supervision of three undergraduate students that provided general lab assistance. Performed a variety of laboratory techniques including but not limited to recombinant DNA technology, Northern blotting, tissue culture, Western blotting, Southern blotting, and protein expression. Contributed intellectually to the goals and environment of the laboratory.

University of Colorado at Boulder, Dept of Molecular, Cellular and Developmental Biology *May 2006-June 2008*

Student Researcher supervised by Dr. Joaquin Espinosa

- Performed and designed experiments, interpreted results. Proficient in many laboratory techniques including but not limited to tissue culture, Western blotting, flow-assisted cell sorting, chromatin immunoprecipitation, and polymerase chain reaction. Assisted with general lab maintenance including preparing solutions, equipment maintenance, and ordering laboratory supplies. Contributed intellectually to the goals and environment of the laboratory. Publications include: Donner, A. J., S. Szostek, et al. (2007). "CDK8 Is a Stimulus-Specific Positive Coregulator of p53 Target Genes." *Mol Cell* 27(1): 121-33, Donner, A. J., J. M. Hoover, et al. (2007). "Stimulus-Specific Transcriptional Regulation Within the p53 Network." *Cell Cycle* 6(21).

PROFESSIONAL PRESENTATIONS

Honors Thesis Defense - Presenter

4/14/2008

Mechanisms of Differential Cell Fate Choice Upon Activation of p53

AFFILIATIONS & SCHOLARSHIPS

Arts and Sciences Dean's Scholarship University of Colorado *Spring 2004 - Spring 2007*

Undergraduate Research Opportunities Grant University of Colorado *Fall 2006*