

Dan Woodruff

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EDUCATION

University of Colorado at Boulder, Boulder, CO

Four Years in Molecular Cellular Developmental Biology

Organic Chemistry Lab

Fall 2001

- Spectroscopy-Infrared, Nuclear Magnetic resonance, Mass Spectroscopy, Extraction, Filtration, Chromatography-gas, Paper.

Cell Biology Lab

Fall 2000-Spring 2001

- Microscopes (Phase, Compound, Fluorescence, Disecting) DNA analysis of E.Coli, Plasmid and forensic application. Immunocytochemistry, Electrophresence, Western Blotting, SDS-page, Forensic Lab, DNA extracting and fingerprinting.

General Chemistry Lab

Fall 1997-Spring 1998

- Laboratory equipment, instruments, Spectrophotometer, Glassware, Titrations, Buffers, Compound preparation.

Genetics Lab

Fall 1995

- Handling specimens, Centrifuge, DNA Inheritance, Mutation mapping.

Biology Lab

Fall 1994

- Basic laboratory procedures, equipment, experiment preparation.

EXPERIENCE

ChemaTox Laboratory, Inc.

July 2004-Present

Forensic Chemist and Toxicologist

- Responsible for alcohol analysis in blood. Validation and calibration of the Headspace 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 Immunosorbent Assay, Solid Phase Extraction and Gas Chromatography/Mass Spectroscopy. Expert testimony on alcohol analyses, drug determination and the effects of drugs and alcohol on the body. Providing services to governmental and private agencies for analysis of body fluids and tissues for alcohol, drugs and other toxic substances.

CONTINUING EDUCATION

GC/MS Basic Training

April 30, 2009

Boulder, CO

- Drugs of abuse identification and quantitation using Gas Chromatography / Mass Spectrometry