

Danielle Patrick

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EDUCATION

University of Colorado at Boulder, Boulder, CO

2005-August 2008

B.A. Molecular Cellular Developmental Biology

EXPERIENCE

ChemaTox Laboratory, Inc.

October 2009-Present

Analytical Chemist

- Analysis of blood and other bodily fluids for the presence of drugs, alcohol, and other toxic substances using ELISA and Headspace Gas Chromatography. Other responsibilities include: validation of the Enzyme-Linked Immunosorbent Assay (ELISA), sample preparation using solid phase extraction for controlled substance analysis with Gas Chromatography/Mass Spectrometry, carbon monoxide detection using UV/VIS spectroscopy.

PROJECTS

Senior Research Project

Spring 2008

- Focused on the comparison of cardiac hypertrophy in pythons and mice. Molecular pathways were studied to determine the mechanisms involved in cardiac hypertrophy. Primers were designed to isolate specific genes (HDAC5) to observe over or under expression of that gene in both hypertrophic and normal states.