Andrew P. Rowley

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**Objective:** To obtain a challenging workplace safety position that will allow me to continue developing as a scientific professional and public health worker

**Education:**

University of Pittsburgh, Pittsburgh PA

Master of Public Health (MPH) in Environmental and Occupational Health

Certificate: Risk Management

Expected Graduation: April 2022

Duquesne University, Pittsburgh PA

Major: B.S. Biochemistry

Minor: Mathematics

Graduated: May 2017

**Research and Professional Experience:**

University of Pittsburgh, Department of Environmental and Occupational Health

University of Pittsburgh, Department of Pediatrics

* Research Technician III, Surgery Specialist - Safar Center for Resuscitation Research (January 2018 - Present)
	+ Oversight of and provision of various experimental procedures on asphyxial cardiac arrest (ACA) pediatric models in rodents including surgical procedures and behavioral testing methods
	+ Development of novel models of global ischemic injury, including mouse Hypoxic Cardiac Arrest (HCA)
	+ Management of employees and undergraduate volunteers of lab, employee scheduling, experiment planning, development of innovative experimental techniques, inventory management and procurement, and executive decision making of short and long-term decisions for lab operations

University of Pittsburgh, Department of Chemistry

* Chemistry Teaching Assistant/Faculty at University of Pittsburgh (August 2017- May 2018)
	+ Provide recitations and labs to students enrolled in General Chemistry

Duquesne University, Department of Chemistry and Biochemistry

* Research assistant in Dr. Michael Cascio lab (January 2015-August 2017)
	+ Assisted PhD candidate with research and completion of project, studying the mechanics of the serotonin pathway by means of Cysteine interactions with a disulfide linking mechanism
* Research assistant in Dr. Stephanie Wetzel lab (January 2014-May 2014)
	+ Performed analysis on urine samples to improve detection methods of benzodiazepine presence

**Relevant Coursework:**

Environmental Law, Health Policy and Management in Public Health, Introduction to Risk Sciences Practicum, and Principles of Environmental Exposure

**Qualifications & Related Skills:**

* Surgical and behavioral experience in various models of pediatric rodent experimentation, including ACA, HCA, and genetic modification
* Development of experimental techniques able to be reproduced at various job sites
* Experience in several methods of behavioral observation, including Morris water maze, novel object recognition, incline plane and balance beam
* Familiar with operation of Agilent 7700 ICP-MS, Agilent 6460 Triple Quadrupole (QQQ) MS, and Agilent 1200 HPLC analytical instruments,
* Performed variety of experiments and analyses in a laboratory setting, and am familiar with multiple analytical measurement and reporting techniques, including GC-MS, IR, ICP-MS, and HPLC
* Administrative responsibilities including protocol creation, maintenance, and annual renewal
* Member of Safar Center for Resuscitation Research (SCRR) COVID committee during COVID-19 pandemic
* Updating of Mioara Manole/research group website for the University of Pittsburgh
* Familiar with theory and implementation of quality assurance/quality control checks
* Able to identify and correct sources of error in measurement and analyses
* Completed all safety training modules through Duquesne University BSNES Environmental Health and Safety department, such as fire safety, lab safety, and bloodborne pathogens training
* Familiar with bacterial isolation via shake incubator and agar plating methods and cell culture, including aseptic technique and PCR
* Experimental experience in detection and analysis of Persistent Organic Pollutants (POPs)
* Familiar with Agilent MassHunter analytical software, R statistical analysis software, STATA statistical analysis software, and Octave computational software

**Professional Involvement:**

* American Chemical Society national member (September 2013-Present)
* World Youth Parliament for Water member (Fall 2020-Present)
* Alpha Chi Sigma-Professional Chemistry fraternity (Fall 2015- August 2017)
* Phi Sigma Lambda-Professional Forensic Science and Law fraternity (Spring 2014- August 2017)

**Honors and Leadership:**

* Publication: Preclinical neurorehabilitation with environmental enrichment confers cognitive and histological benefits in a model of pediatric asphyxial cardiac arrest (November 2, 2020)
* Promotion from research level II to level III (March 2019)
* Poster presentation at 18th annual Safar Symposium (May 19, 2021)
* Poster presentation at Rehab Institute Research Day (May 22, 2019)
* Oral presentation at Safar Center Summer Symposium (July 18, 2019)
* Author on posters presented at Rehab institute research day (2019), Safar Center Summer Symposium (2019), Undergrad FER day (2019), Chicago Neurotrauma (2019), Pitt Science (2019), and Safar Symposium (2021)
* Freshman Orientation Team Leader (2015, 2016)
* University Tour guide at Office of Undergraduate Admissions (May 2016-September 2017)
* Librarian at Duquesne University Gumberg Library (2015)
* Duquesne University Fire Marshal (September 2013–September 2017)
* Eagle Scout (January 2013)
* National Honor Society (September 2012)
* Camp Tuckahoe Boy Scout Camp, Dillsburg PA (various positions) (2011-2013)