

Institute for In Vitro Sciences, Inc.
30 W. Watkins Mill Road, Suite 100
Gaithersburg, MD 20878

Curriculum Vitae

Katie (Katherine) V. Bouchard

Education

August 2011 – May 2015 Bachelor of Science in Biology
Elon University

Experience

January 2023 to Study Director/Toxicologist I
Present Institute for In Vitro Sciences, Inc.
Gaithersburg, MD

Assuming Study Director responsibilities for the UV-VIS analysis assay in addition to Toxicologist responsibilities.

February 2022 to Scientist/Toxicologist I
January 2023 Institute for In Vitro Sciences, Inc.
Gaithersburg, MD

Assisting commercial clients to develop an appropriate *in vitro* toxicology program for their products. Participate in selected *in vitro* method development programs, especially those involving new tissue engineered models, so that new or existing *in vitro* assays become useful tools for industrial safety or efficacy programs. Interacting with industry, animal welfare groups and government as necessary to discuss use of *in vitro* methods. Developing appropriate product safety evaluation literature emphasizing *in vitro* methods that will assist industrial scientists in understanding and utilizing *in vitro* assays. Participate in producing manuscripts detailing IIVS's scientific activities. Assisting in producing Background Review Documents detailing the performance characteristics and predictive capacity of various *in vitro* assays. Organizing and/or participating in other IIVS programs as assigned.

May 2021 to Biologist III
February 2022 Institute for In Vitro Sciences, Inc.
Gaithersburg, MD

The position of Biologist III entails increased knowledge, ability and competence in carrying out scientific protocols; helps develop and conduct special assays with little supervision, collecting biological data; performing calculations and

graphing data. Clearly demonstrates initiative and leadership. In most instances, the biologist may have attained a high level of proficiency or expertise where only minimal supervision of the biologist may be required.

May 2020 to
May 2021

Biologist II
Institute for In Vitro Sciences, Inc.
Gaithersburg, MD

Under moderate supervision, demonstrates mastery of basic techniques, and performs some specialized technical assignments in the performance of studies. Responsible for proficiently performing, recording, and reporting data from standard, custom, and novel assays. Uses and maintains scientific equipment. Often assists using specialized techniques. May make independent technical judgements, commensurate with experience. Requires demonstrated commitment to quality, safety, GLP compliance, understanding of scientific principles and rationale for assay systems. Shows initiative and leadership. In some instances, the biologist may have attained a high level of proficiency or expertise where only minimal supervision of the biologist may be required.

May 2019 to
May 2020

Biologist I
Institute for In Vitro Sciences, Inc.
Gaithersburg, MD

Under close supervision, performs basic technical assignments in the performance of in vitro or cell culture studies. Is responsible for performing, recording, and reporting data from standard studies. Uses and maintains scientific equipment such as refrigerators, centrifuges, laminar flow hoods, 96-well plate readers, incubators, microscopes, micropipetters, computers, etc., and other duties as assigned. Participates in opportunities to assist in specialized techniques or studies.

March 2017 –
May 2019

Field Biologist and Collection Production Manager
Carolina Biological
Burlington, NC

Created a schedule to ensure all field collected living organisms were available to the lab. Maintained a clean lab space for a variety of aquatic and terrestrial organisms (including but not limited to amphibians, reptiles, fish and aquatic plants). Provided on-call coverage for demand of medicinal leeches by hospitals nationwide in addition to following protocols for leech storage in accordance with the FDA. Dissected *Rana pipiens* (Northern Grassfrog) to harvest pituitary glands to inject into females in order to produce lab induced frog eggs for fertilization.

August 2016 –
March 2017

Collector I
Carolina Biological
Burlington, NC

Worked in the field (forests, wetlands, ponds, etc.) to collect living organisms (insects, aquatic plants, amphibians, etc.) to send to customers. Maintained a clean lab space for storage of living animals such as bullfrogs and crayfish. Inspected organisms to ensure a healthy organism was provided to the customer.

August 2015 –
August 2016

Animal Keeper and Internship Coordinator
Conservators Center
Burlington, NC

Performed daily animal husbandry including feeding, administering medications, enclosure cleanings and providing enrichment. Kept daily logs for each animal (about 80 animals of 20 different exotic and native species) including diet, medication/vitamins, weight and unusual behavior. Safely locked down large predators (lions, tigers, leopards and wolves) to allow cleaning and construction in enclosures. Screened internship applications, interviewed candidates, selected and trained internship recipients. Updated a digital information library about animal husbandry.

August 2013 –
May 2015

Population Biology Teaching Assistant
Elon University
Elon, NC

Responsible for the set-up, execution and clean-up of undergraduate population biology labs. This included maintaining lab equipment (such as microscopes and computers) and field equipment (such as waders, pH probes and turtle traps). Responsible for grading written labs and lab practicals in addition to tutoring students when necessary.

Publications

Cantrell K, **Bouchard K**, Price G, Filbert-Findley J, Conahan M, and Hilberer A. Approaches in the Evaluation of Equipment Used for In Vitro Phototoxicity Testing to Ensure Proper Assay Performance and Regulatory Compliance. Poster presented at Society of Toxicology Annual Meeting, Virtual, March 2021.

Hilberer A., Ritacco G., **Bouchard K.**, Cantrell K., Madrid M., Oeda S., Kobayashi H., Atobe T., Suttinont C., Hirota M., Kouzuki H., Api A.M., Gerberick G.F., Ryan C. Evaluation and Transferability of a New Approach Methodology to Address Photoallergy Potential. Poster presented at the 62nd Society of Toxicology Annual Meeting, Nashville, TN, March 19-23, 2023.

Bouchard K., Supit T., Hilberer A. Evaluation of Complex Compounds in the UV-VIS Absorption Spectra Method. Poster presented at the 62nd Society of Toxicology Annual Meeting, Nashville, TN, March 19-23, 2023.