

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

## Curriculum Vitae

### **Elizabeth Willier**

#### Education

- 2013            Master of Science in Applied Biology  
                  Salisbury University  
                  Salisbury, MD
- 2011            Bachelor of Science in Biological Sciences  
                  Salisbury University  
                  Salisbury, MD

#### Experience

- 2021 - Present        Toxicologist I/Study Director  
                          Institute for In Vitro Sciences  
                          Gaithersburg, MD

Assists commercial clients to develop an appropriate *in vitro* toxicology program for their products. Assumes Study Director responsibilities for one or more *in vitro* toxicology assays. Participates 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. Interacts with industry, animal welfare groups and government as necessary to discuss use of *in vitro* methods. Develops appropriate product safety evaluation literature emphasizing *in vitro* methods that will assist industrial scientists in understanding and utilizing *in vitro* assays.

- 2019 – 2021            Scientist I  
                          QIAGEN Sciences Inc  
                          Germantown, MD

Designs and executes experiments intended to improve current bulk productions in the Molecular Biology department. Tech transfer of products developed from R&D to Manufacturing. Performs experiments to troubleshoot any problems that arise with productions. Maintains laboratory equipment. Maintains databases of

trending data from products and experiments. As needed, performs various productions, using current techniques in molecular biology.

2018 – 2019                      Biologist III  
    Institute for In Vitro Sciences  
    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.

2016 – 2018                      Biologist II  
    Institute for In Vitro Sciences  
    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.

2015 – 2016                      Biologist I  
    Institute for In Vitro Sciences  
    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.

#### Publications and Presentations

G. E. Costin, E. Willier, H. Raabe, A. W. Amici, H. Mitake, M. Hatanaka. 2019. "Shipping Study to Evaluate the Performance of the LabCyte EPI-MODEL 24 Tissues for Use in the Skin Irritation Test (OECD TG 439) After Long-Haul Airfreight". Society of Toxicology.

N. Sadowski, E. Willier, K. Norman. 2015. "Practical Considerations for Routine Screening of Skin Sensitizers using the KeratinoSens™ Assay". American Society for Cellular and Computational Toxicology.