

# Gabriela Henriquez

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## PROFESSIONAL SUMMARY

Early career scientist with hands-on expertise in mammalian cell culture, in vivo, flow cytometry, and molecular biology techniques, applied in both academic and industry settings.

Skilled in assay development and data analysis, with experience supporting process optimization and analytical projects in regulated GLP/GMP environments.

Driven to advance a career in biopharmaceutical process development and research, combining technical expertise and regulatory awareness to contribute innovative therapies and scientific breakthroughs.

## PROFESSIONAL EXPERIENCE

### Gene Delivery & Editing Process Development, Intern. June 2025 – August 2025

*Bristol Myers Squibb, Seattle, Washington.*

- Supported Adeno-Associated Virus (AAV) workflow optimization contributing to improved viral yield and purity using high-throughput screening.
- Applied statistical tools (JMP) to analyze experimental results and summarize findings.
- Documented research findings in electronic lab notebooks (ELN) and communicate data insights.
- Participated in weekly team meetings, presented experimental progress, and received actionable feedback to improve project alignment and technical approach.

### Quality Assurance Specialist II. May 2022 – March 2024

*Seattle Children's Research Institute, Seattle, Washington.*

- Maintained and updated standard operating procedures (SOPs) and quality records, ensuring compliance with regulatory requirements.
- Improved documentation and reporting systems, achieving a 75% increase in compliance rate.
- Collaborated with cross-functional teams to support process development and ensure regulatory adherence.

### Graduate Research & Teaching Assistant. July 2016 – December 2021

*The University of Texas at El Paso (UTEP), El Paso, Texas.*

- Conducted translational neuroscience research using in vitro and in vivo models to study neurodegeneration, synaptic dysfunction, and behavioral outcomes.
- Applied molecular and cellular biology methods to investigate neuronal signaling and neurotoxicity pathways.
- Developed and optimized behavioral and molecular assays to evaluate neuroprotective compounds, leading to peer-reviewed publications.
- Performed *C. elegans* maintenance to study gene function in disease models.
- Performed rodent handling, small animal surgery, and behavioral assays under IACUC-approved protocols.
- Conducted tissue collection and processing for downstream molecular and histological analyses.
- Utilized fluorescence microscopy to analyze protein expression and localization in transgenic worm strains.
- Oversaw lab operations, inventory, and training, ensuring continuity of process development activities.
- Delivered chemistry laboratory for over 20 students per section, strengthening teaching and leadership skills.

## CORE COMPETENCIES

Flow cytometry · Cell-based assays · Experimental design & optimization · Data analysis & reporting · Molecular & cellular characterization · Aseptic technique · Mammalian cell culture · Cross-functional collaboration · Regulatory compliance (GLP/GMP) · ELN management · Problem solving & troubleshooting · Communication & presentation skills

· Laboratory operations

## TECHNICAL SKILLS

### Cell & Molecular Biology

Mammalian cell culture · Media · Isolation of DNA/RNA · PCR, qPCR · Gel electrophoresis · Western blot · Transfection/Transformation · Molecular cloning · Protein purification · ELISA · Immunofluorescence · Cytotoxicity assays

### Equipment & Lab Operations

Flow cytometry · Fluorescence microscopy · Staining & imaging · High-throughput automatization · Spectrophotometer · Live cell imaging & analysis · Plate-based assay · ÄKTA chromatography · Exposure to bioreactor · Supply inventory & ordering

### Data Management & Software

Experimental design (DOE) · Statistical analysis · Data analysis & interpretation · Knowledge of Prism, R, JMP · BLAST · ImageJ · FlowJo · Electronic Lab Notebooks · Good Practice Documentation · SOPs development & review · Summarize/ present scientific data

## EDUCATION

### Certificates in Biotechnology & Biomanufacturing

*Shoreline Community College, Shoreline, Washington.*

*Biotechnology Laboratory Specialist Certificate*

*Essentials of Biomanufacturing Certificate*

### Ph.D. Environmental Science & Engineering The University of Texas at El Paso (UTEP), El Paso, Texas.

*Dissertation: "The Role of Xenobiotics in Neurodegenerative Diseases"*

*Focus: Molecular mechanisms of neuronal toxicity and neurodegeneration*

### B.S. Pharmaceutical Biochemistry

*Universidad Tecnológica de Santiago (UTESA), Santiago, Dominican Republic.*