

Shweta Bhadri

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SUMMARY

Senior Research Scientist with 5+ years in bioanalytical development within cGMP/GLP-regulated environments. Skilled in cell-based assay development, method validation per ICH Q2(R1), and biomarker testing across ELISA, qPCR, ddPCR, Western blot, HPLC, and MSD platforms.

SKILLS

Laboratory Techniques: ELISA, MSD Immunoassay, Western Blot, JESS, RT-ddPCR, qPCR, HPLC, Flow Cytometry, Cell Culture, Transfection, BCA Protein Assay, Immunostaining, RNA/DNA Isolation

Quality & Regulatory: cGMP, GLP, Data Integrity, Root Cause Analysis, Equipment Calibration, ELN

Data & Tools: GraphPad Prism, Statistical Analysis, Data Visualization, Basic Python, PowerPoint, Excel

WORK EXPERIENCE

Sarepta Therapeutics | Senior Research Associate; Research Associate 2 | Columbus, OH Aug 2022 – Aug 2025

- Developed and optimized ELISA and MSD-based immunoassays for quantification of protein biomarkers in preclinical samples, supporting 2 Phase II AAV gene therapy programs.
- Led RT-ddPCR method development to evaluate gene editing efficacy across multiple Muscular Dystrophy (DMD/LGMD) studies, delivering results with 50% more efficiency to meet Phase 3 non-clinical deadlines.
- Led protein expression studies for ~10 programs per quarter using Western Blot and JESS platforms, increasing output efficiency by 40% across therapeutic candidate evaluations.
- Led cell-based potency assays for AAV vector using neuronal cell lines to support neuro programs, aligning GCP/GLP execution with cross-functional program goals.
- Drove interpretation of scientific data for DMD/LGMD projects using Western Blot and ddPCR, generating protein expression and biodistribution data across rodent tissue panels.

Cincinnati Children's Hospital | Research Assistant 3 | Ohio, USA Jul 2021 – Jul 2022

- Developed OSA murine models using intermittent hypoxia, executing experiments to characterize tissue-specific transcriptome changes and subsequent physiological responses.
- Assessed transfection efficiency of siRNAs on human and mouse Luc reporter cell lines, quantifying effects on CLOCK gene expression using RT-qPCR and Western Blot.
- Optimized Western Blot protocols for mouse tissue panels, improving data accuracy and reproducibility by standardizing analysis workflows within 3 months.

Wright State University | Graduate Research Assistant | Dayton, OH Jan 2020 – May 2021

Thesis: "The Role of Microvesicle Particles vs. Exosomes in the Synergistic Effects of UV Radiation and PAF-R Agonists on Cytokine Production"

- Designed experimental protocols to evaluate PAF-R agonist effects on cytokine responses, leveraging ELISA and RT-qPCR to enhance data accuracy within 6 months.
- Isolated and characterized microvesicle particles and exosomes from UV-irradiated cell lines, quantifying cytokine production to support thesis findings.

Encube Ethicals | Quality Control Analyst | Goa, India Jul 2017 – Aug 2018

- Performed analytical testing of final pharmaceutical products using HPLC and UV-spectroscopy, ensuring batch compliance with GMP standards.
- Supported method validation and equipment calibration workflows, reducing analytical turnaround time by 15%.
- Developed troubleshooting strategy for laboratory equipment failures, achieving a 20% reduction in instrument downtime and maintaining GMP compliance.

EDUCATION

Wright State University | Ohio, USA May 2021

M.S. in Pharmacology & Toxicology | GPA: 4.0 / 4.0