

Kaylind Novick

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Education:

M.S., Cellular and Molecular Biology - University of New Haven (May 2025)

B.S., Forensic Science - Biology, Minor in Criminal Justice - University of New Haven (May 2024)

Scientific Techniques/Laboratory Skills:

Cell Culture & Molecular Biology:

- Mammalian cell culture of adherent cancer cell lines using aseptic techniques
 - Analysis conducted using fluorescence and viability assays to ensure healthy cell growth
- Functional Assay Development:: Cytotoxicity, cell viability, wound-healing, immuno-precipitation, immunofluorescent assays
- DNA/RNA/protein extraction, purification, and quantitation
 - Analysis performed using PCR and electrophoresis techniques to ensure accurate results

Molecular Engineering:

- Molecular/plasmid cloning (T53 gene studies)
- CRISPR-Cas9 gene editing workflows
- PCR, RT-qPCR, SDS-PAGE, Western Blotting, ELISA, electrophoresis (agarose gel, capillary)
- DNA/RNA/plasmid sequencing

Assay Development & Analytics:

- Plate-based assays/plate-based immunoassays, microplate reader analysis
- Data interpretation using R, Python, SnapGene, NCBI tools

Laboratory Operations:

- GxP compliance, SOP adherence, documentation accuracy
- Liquid nitrogen sample tracking, inventory management
- Cross-functional communication and workflow coordination

Relevant Coursework:

Advanced Cell Topics • Cell Culture Techniques • Molecular Biology • Molecular Biotechnology • Protein Biochemistry & Enzymology • Molecular Genetics/Genomics • Biostatistics (R, python) • Nucleic Acid Biochemistry • Writing & Speaking for Professionals

Work Experience:

CSS Technician I | Azenta Life Sciences | Site Specific- Remote | November 2025-May 2026

- Executed laboratory workflows in accordance with GxP standards and established SOPs while maintaining a high level of documentation accuracy
- Managed biological sample inventory, tracking thousands of temperature-sensitive specimens while ensuring complete chain of custody and sample integrity.
- Maintained accurate laboratory inventory utilizing Microsoft Excel and proprietary software
- Collaborated with operations, logistics, and technical teams between multiple companies to prioritize optimal workflows and efficiency.
- Performed quality checks on new and preexisting samples to ensure compliance with laboratory standards.
- Safely handled and worked with liquid nitrogen (LN2) on a daily basis following laboratory safety protocols and expectations.

Biochemistry Lab Assistant | University of New Haven | West Haven, CT | September 2023-May 2024

- Prepared reagents, stock solutions, buffers, and sample aliquots to according to established protocols.
- Assisted students with questions, troubleshooting, and laboratory navigation.
- Maintained accurate laboratory records and ensured compliance with safety procedures and SOPs.
- Maintained laboratory organization equipment readiness, and chemical inventories to support daily laboratory sessions

Research Experience:

Honors Thesis Research | University of New Haven | West Haven, CT | January 2022-May2024

Project: “How Can Modern DNA Analysis and Databases Aid in Solving Open Sexual Assault Cases”

Advised by Dr. Heather Coyle

- Under the PI, planned and executed laboratory experiments related to the research question.
- Performed DNA extraction, purification, quantification, and downstream molecular and forensic analyses following standardized protocols.
- Maintained detailed experimental documentation and ensured reproducibility of methods.
- Troubleshoot laboratory procedures and optimized experimental workflows.
- Familiarized with International Review Board and research processes.
- Applied molecular and forensic techniques to real world scenarios.
- Presented research findings through written and oral reporting.