

Layla Hines

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SUMMARY

Senior **biomedical research** professional with eight years of laboratory experience across cancer biology, cell signaling, quantitative proteomics, phosphoproteomics, and research operations. Independently defines experimental approaches, refines methods, troubleshoots assay and equipment issues, and interprets data for principal investigator review. Hands on work includes **mass spectrometry** based sample preparation, phosphoprotein enrichment, **mammalian cell culture**, protein assays, laboratory documentation, and hazardous material practices. Scientific communication includes manuscript sections, grant application content, technical reports, figures, literature reviews, and research presentations. Provides practical guidance to junior researchers, coordinates inventory and equipment readiness, and supports safe, organized laboratory operations. Brings sound judgment, careful recordkeeping, and clear collaboration to studies focused on **cellular homeostasis**, phosphatase signaling, and cancer mechanisms.

EXPERIENCE

Senior Research Assistant, Cancer Proteomics

May 2022 - Present

Great Lakes Cancer Research Center

Madison, WI

Leads **cancer** signaling studies and proteomics workflows, supporting **principal investigator** decisions, junior staff development, laboratory readiness, and clear scientific reporting.

- Defined phosphatase signaling experiments through hypothesis refinement, controls, replicate planning, and outcome review.
- Built **proteomics** sample workflows using lysis, enrichment, quality controls, and replicate structures for reproducible datasets.
- Resolved assay and instrument issues by checking controls, reagents, protocols, and **equipment** condition before corrective action.
- Interpreted quantitative datasets with statistical software, literature searches, and presentation tools for investigator review.
- Prepared manuscript sections, technical summaries, figures, and grant content that clarified research implications.
- Coordinated **inventory**, equipment readiness, **hazardous waste** practices, and training for junior laboratory researchers.

Research Assistant II, Molecular Proteomics

August 2020 - April 2022

Midwest Institute for Molecular Medicine

Milwaukee, WI

Supported cellular stress research through proteomic experiments, procedure refinement, data interpretation, personnel training, inventory planning, and manuscript preparation.

- Executed proteomic and biochemical studies with documented sample preparation, instrument submission, and downstream analysis.
- Refined protein recovery procedures after pilot results revealed variability in phosphorylation preservation and sample quality.
- Organized experimental results for weekly meetings, presenting tentative conclusions and practical follow up directions.
- Trained new staff in cell culture, protein extraction, assay records, chemical handling, and equipment procedures.
- Forecast reagent demand and coordinated orders, keeping time sensitive experiments supplied without workflow interruptions.
- Prepared figures, methods text, literature summaries, and report drafts for manuscript and internal research reviews.

Research Assistant, Cancer Biology

June 2018 - July 2020

Lakeshore University Medical Research Laboratory

Milwaukee, WI

Performed supervised cancer biology research while maintaining reliable records, safe laboratory practices, quality controls, data presentations, and research reports.

- Conducted **mammalian cell culture**, protein assays, immunoblotting, and sample preparation for signaling studies.
- Linked samples, protocols, reagent lots, observations, and analytical outputs through structured laboratory notebooks.
- Reviewed experimental controls and repeated assays when quality criteria failed, documenting deviations and proposed adjustments.
- Applied chemical labeling, storage, personal protective practices, and **hazardous waste** segregation during laboratory work.
- Used **data analysis**, graphing, presentation software, and literature searches to support experimental planning.
- Presented study updates and contributed methods, results summaries, and references to research reports.

Undergraduate Research Assistant, Protein Biochemistry

September 2016 - May 2018

Central Wisconsin University

Stevens Point, WI

Completed supervised **protein biochemistry** research while developing **experimental design**, quantitative analysis, documentation, literature review, and safe laboratory operations.

- Prepared biological samples and performed protein characterization assays with calibrated laboratory equipment.
- Compared replicate results and controls, then reviewed protocol adjustments with the faculty investigator.
- Connected experimental observations with published mechanisms through literature searches and an annotated reference library.
- Presented findings through departmental posters and oral updates covering methods, limitations, and next steps.
- Maintained shared reagents, organized bench supplies, and documented equipment use for orderly laboratory operations.
- Recorded experimental procedures and observations consistently, giving later analysis a clear trail.

PROJECTS

Phosphatase Signaling Proteomics Program 2026

Developed a coordinated research approach linking phosphoprotein phosphatase activity, cellular homeostasis, quantitative proteomics, and cancer mechanisms. Work emphasized reproducible sample preparation, thoughtful controls, interpretable datasets, and evidence based follow up questions.

Laboratory Readiness and Training Initiative 2022

Improved day to day research readiness through inventory planning, equipment checks, safety documentation, hazardous waste practices, and practical instruction for new laboratory personnel.

LEADERSHIP & AWARDS

- Research presentation leadership, shared cancer biology and proteomics findings during laboratory and departmental meetings.
- Scientific writing contribution, prepared manuscript sections, technical summaries, figures, and grant application research content.
- Laboratory training leadership, provided practical instruction in methods, documentation, chemical handling, and equipment procedures.

EDUCATION

Bachelor's Degree in Biochemistry

2018

Central Wisconsin University GPA: 0

Stevens Point, WI

Coursework: Protein biochemistry, cell biology, analytical chemistry, molecular biology

CERTIFICATIONS

- OSHA Laboratory Safety Training 2026
- Radiation Safety and Hazardous Materials Training 2025

TECHNICAL SKILLS

- **Proteomics Methods:** Mass spectrometry, protein extraction, phosphoprotein enrichment
- **Cell Biology Methods:** Mammalian cell culture, cancer models, cell signaling
- **Protein Analysis:** Immunoblotting, protein assays, sample preparation
- **Data Analysis Software:** Statistical software, spreadsheet software, presentation software
- **Research Documentation:** Laboratory notebooks, electronic records, sample tracking
- **Scientific Communication:** Manuscript writing, technical reports, research presentations
- **Literature Research:** Online literature searches, reference libraries, evidence review
- **Laboratory Safety:** Chemical safety, hazardous waste, radioactive materials
- **Laboratory Operations:** Inventory management, equipment upkeep, supply coordination
- **Research Training:** Technical instruction, procedure training, method guidance
- **Experimental Planning:** Hypothesis development, controls, replicate planning
- **Quality Control:** Assay controls, protocol review, data quality checks

SKILLS

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|-----------------------|------------------------|---------------------|-------------------------|
| • Experimental Design | • Cell Signaling | • Cell Culture | • Inventory Management |
| • Data Analysis | • Proteomics | • Literature Search | • Equipment Maintenance |
| • Scientific Writing | • Phosphoproteomics | • Grant Support | • Safety Practices |
| • Cancer Biology | • Protein Biochemistry | • Research Records | |

PROFESSIONAL AFFILIATIONS

- Biomedical research laboratory community, active contributor across cancer biology, proteomics, and cell signaling studies.
- Scientific communication community, shared findings through laboratory meetings, departmental presentations, and research reports.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST