

Londyn Callahan

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SUMMARY

Laboratory Technician with three years of research experience across **molecular biology**, cell biology, biochemistry, genetics, and **mammalian cell culture**. Supports interdisciplinary experiments from reagent preparation through data review, documentation, and manuscript support. Performs treatment response studies, recombinant DNA workflows, molecular assays, and **genome wide expression analysis** with careful quality control. Maintains cell stocks, laboratory notebooks, digital records, inventories, freezers, refrigerators, shared spaces, and waste processes. Creates clear graphs, charts, tables, and statistical summaries for research discussions. Troubleshoots unexpected findings through control review, repeat testing, and practical method recommendations. Provides technical guidance for students, communicates observations clearly, and follows laboratory safety, chemical handling, hazardous waste, and **good documentation practices**. Brings dependable organization and hands on research judgment to grant supported laboratory work.

EXPERIENCE

Laboratory Technician II October 2024 - Present
Lakeview Cellular Research Center Madison, WI

Supports treatment response research through mammalian cell culture, molecular assays, recombinant DNA workflows, **data analysis**, equipment care, and traceable laboratory operations. Provides practical guidance during shared laboratory work and communicates findings with investigators.

- Executed molecular biology assays and mammalian cell culture studies for **treatment response** research.
- Prepared reagents, instruments, and equipment for **recombinant DNA** workflows with **quality control** checks.
- Investigated unexpected assay findings through control review, repeat testing, and investigator recommendations.
- Created graphs, tables, and **statistical summaries** for laboratory meetings and manuscript discussions.
- Maintained notebooks, **digital records**, cell stock logs, freezer inventories, and supply levels.
- Calibrated shared equipment and completed preventive care under chemical and biological safety procedures.

Research Laboratory Assistant September 2023 - September 2024
Midwest Biomedical Research Laboratory Milwaukee, WI

Supported molecular biology and genetics studies through sample preparation, expression analysis, cell based procedures, literature review, documentation, and routine laboratory operations. Demonstrated established methods for undergraduate researchers while preserving safe, organized workflows.

- Supported **genetics** studies through sample preparation, nucleic acid work, and expression analysis procedures.
- Monitored experiments and documented observations before downstream analysis of control discrepancies.
- Maintained **cell culture stocks**, incubators, **refrigerators**, and freezers using contamination control practices.
- Prepared publication quality **charts** and tables after **literature searches** and method comparisons.
- Restocked consumables, processed laboratory waste, and maintained shared **laboratory spaces**.
- Demonstrated routine methods for undergraduate researchers, reinforcing documentation, equipment care, and safety.

PROJECTS

Treatment Response Assay Support 📅 2025

Supported a structured treatment response workflow using mammalian cell culture, molecular assays, control review, and clear data summaries for research discussion.

Expression Analysis Documentation 📅 2024

Organized expression analysis records, literature findings, charts, and tables so investigators could compare methods and interpret unusual observations.

LEADERSHIP & AWARDS

- Recognized by laboratory supervisors for dependable cell stock records and consistent experimental documentation.
- Selected to guide undergraduate researchers through routine methods, equipment care, and safe laboratory practices.
- Entrusted with shared equipment calibration, preventive care, inventory control, and freezer organization.

EDUCATION

Bachelor's Degree in Biology 2023
University of Wisconsin Milwaukee GPA: 3.5 Milwaukee, WI
Coursework: Molecular biology, cell biology, biochemistry, genetics

CERTIFICATIONS

- CITI Program, Biomedical Responsible Conduct of Research 📅 2024
- University Laboratory Chemical Safety Training 📅 2023

TECHNICAL SKILLS

- **Molecular Biology Methods:** Recombinant DNA, nucleic acid preparation, molecular assays
- **Cell Biology Methods:** Mammalian cell culture, cell stocks, treatment response studies
- **Genetics Research:** Genetics, genome wide expression analysis, expression analysis
- **Biochemistry Methods:** Biochemistry, assay preparation, statistical summaries
- **Immunology Research:** Immunology, treatment response, biological sample handling
- **Data Presentation:** Graphs, charts, tables
- **Research Documentation:** Laboratory notebooks, digital records, good documentation practices
- **Quality Control:** Quality control checks, control review, repeat testing
- **Equipment Operations:** Equipment preparation, calibration, preventive maintenance
- **Laboratory Operations:** Inventory, cell stock logs, supply management
- **Safety Compliance:** Laboratory safety, chemical safety, biological safety
- **Waste Management:** Hazardous waste disposal, laboratory waste processing, waste records

SKILLS

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|---------------------|--------------------------|-----------------------|-------------------------|
| • Molecular biology | • Immunology | • Cell based assays | • Equipment calibration |
| • Cell biology | • Mammalian cell culture | • Quality control | • Inventory management |
| • Biochemistry | • Recombinant DNA | • Data analysis | • Laboratory safety |
| • Genetics | • Expression analysis | • Literature searches | |

PROFESSIONAL AFFILIATIONS

- Biomedical research laboratory contributor supporting molecular and cellular science teams.
- Undergraduate research mentor providing practical guidance on methods, records, and laboratory safety.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST