**Aggie L. Name** College Station, TX | 979-555-5555 | [agglbio@tamu.edu](mailto:agglbio@tamu.edu) | [www.linkedin/aggielbio295](http://www.linkedin/aggielbio295)

**Microbiologist and Geneticist**

Highly accomplished and detail-oriented professional with a Masters degree in Biology, specialized in microbiology and genetics.

Consistent track record of driving impactful results in the lab, including developing new genetic editing techniques that significantly improved the efficiency of the process. Demonstrated expertise executing research projects, resulting in the publication of several papers in leading scientific journals. Experienced in collaborating with cross-functional teams and adept at presenting complex scientific information to both technical and non-technical audiences.

**Key Skills**

Culturing | Isolation | Identification of Microorganisms | Microscopy | Microsoft Excel | R

BLAST | GenBank | Aseptic Techniques | DNA Sequencing | ELISA

Polymerase Chain Reaction | Laboratory Management | Mentoring

**EDUCATION**

**Texas A&M University** College Station, TX

Master’s of Science (Thesis Option) in Biology May, 20xx (anticipated)

**John Hopkins University** Baltimore, MD

Bachelors of Science in Biology, minor in Chemistry May, 20xx

**RESEARCH EXPERINCE**

**Texas A&M University, Biology Lab College Station, TX**

**Graduate Research Assistant August, 20xx – Present**

* **Conducted research on role of circadian clocks in regulating gene expression in microbial species as part of $250K National Institution of Health (NIH) grant**
* **Developed and implemented novel genetic editing techniques that increased efficiency by 60%, resulting in significant time savings for lab workflow**
* **Designed and implemented experiments to investigate impact of light-dark cycles on gene expression patterns**
* **Utilized molecular biology techniques including PCR, gel electrophoresis, and cloning to analyze gene expression data**
* **Collaborated with team members to analyze and interpret data using statistical software such as R and MATLAB**
* **Presented research findings at 3 national conferences and authored 2 scientific papers for peer-reviewed journals**
* **Demonstrated strong organizational and time management skills to meet project deadlines**
* **Maintained laboratory equipment, ensured safety procedures were followed, and trained 2 new lab members on experimental techniques**

**John Hopkins University, Bio-Chem Lab Baltimore, MD**

**Undergraduate Research Assistant January, 20xx – May, 20xx**

* **Conducted experiments to isolate and purify virus lipids using various chromatography techniques**
* **Prepared and characterized virus lipid samples using analytical instruments such as HPLC and mass spectrometry**
* **Cooperated with senior lab members to design and execute experiments to investigate the role of virus lipids in   
  viral infectivity**
* **Managed laboratory inventory, ordered, and restocked supplies, and ensured laboratory safety protocols were followed**
* **Reported weekly data analysis reports to primary investigator to drive study direction**

**Temple University, Department of Medical Genetics and Molecular Biochemistry Philadelphia, PA**

**Research Experience for Undergraduates (REU) June, 20xx – August, 20xx**

* **Utilized BLAST to compare genetic sequences of different species, identifying conserved regions and potential evolutionary relationships**
* **Executed PCR amplification of genetic markers from variety of biological samples, including tissue and blood, and analyzed resulting data to infer population genetic structure**
* **Assisted in design and implementation of experiments investigating gene expression in response to environmental stressors, including heat and chemical exposure**
* **Contributed to preparation of laboratory protocols and reagents, ensuring compliance with safety guidelines and best practices for genetic research**
* **Maintained detailed records of experimental procedures, results, and data analysis, facilitating effective communication and collaboration with team members**
* **Participated in weekly research meetings, presenting findings, and receiving feedback on experimental design and interpretation of results**

**WORK** **EXPERIENCE**

**John Hopkins University, Computing Lab Baltimore, MD**

**Student Worker August, 20xx – May, 20xx**

* **Supported students and faculty members in troubleshooting computer hardware and software issues**
* **Analyzed data on computer lab usage to identify areas for improvement and increased efficiency**
* **Monitored computer lab activity to ensure a quiet and productive work environment**

**SELECTED** **PUBLICATIONS**

**Smith, H.Y., Zhang, L., Bio, A.L., and Chen, J. (2022). Exploring the Role of Circadian Rhythms in Gene Expression using CRISPR-Cas9 Knockouts in Arabidopsis thaliana. *Plant Cell Reports, 41*(7), 1263-1272.**

**Kim, S.H., Bio, A.L., Lee, J.H., and Park, H.M. (2023). BLAST Analysis of Bacterial Genomes Reveals Novel Insights into Antibiotic Resistance Gene Transfer. *Frontiers in Microbiology, 14,* 730.**

**Yamamoto, Y., Kuroda, K., Bio, A.L., and Nakamura, T. (2024). Structural and Functional Analysis of Viral Lipid Membranes. *Journal of Virology, 98*(3), e01234-22.**

**LEADERSHIP** **& ORGANIZATIONS**

**Biology Graduate Students’ Association (BioGSA)** **College Station, TX**

Member August, 20xx - Current

**Faculty Meeting Representative August, 20xx – August, 20xx**

* **Lobbied successfully for and implemented changes in university policies, including increasing availability of funding for graduate student research and expanding mental health resources for students**
* **Advocated for graduate student interests and concerns by regularly communicating updates and feedback to faculty and administration during monthly meetings**
* **Organized and coordinated events that fostered interdisciplinary dialogue, community building, and professional development graduate students across various departments**

**American Society for Microbiology (AMS) Washington, DC**

**Member March, 20xx – Present**