

NYDIA GRUBBS | Research Intern | Applied Lab Skills



NYDIACAMILLEGRUBBS@GMAIL.COM



SAN DIEGO, CA

ABOUT ME

Enthusiastic, dedicated, and inquisitive high school senior with a passion for the life sciences is seeking a challenging internship to apply knowledge, further academic pursuits, develop practical skills, and ultimately thrive professionally in a biomedical setting. Proficient in bacterial cell transformation, metagenomics, and R programming. Eager to contribute to innovative research and advancements in the field of biotechnology.

EXPERIENCE

UNIVERSITY CITY HIGH

June 2023

DNA Technologies Summer Program, San Diego, CA

- Bacterial transformation of *E. coli*: constructed and inserted antibiotic resistance gene and red fluorescent protein (RFP) using Amgen bioengineering technologies
- Modified lacZ gene in *E. coli* using CRISPR
- Agarose gel electrophoresis of bacterial DNA to prove antibiotic resistance

BOZ LIFE SCIENCE RESEARCH AND TEACHING INSTITUTE

September 2024 - April 2025

Metagenomics Intern, San Diego, CA

- Investigated presence of microorganisms across sites within Rose Creek Watershed to investigate effects of pollution on bacterial diversity
- Analyzed nanopore sequencing results by graphing and performing statistical tests in R

SAN DIEGO BIOMEDICAL RESEARCH INSTITUTE

January 2026 - Present

Research Intern, San Diego, CA

- Mammalian and bacterial cell culture
- Performed western blots to analyze phosphorylation of p38 protein in response to cannabinoid agonists
- Performed BCA protein assays to quantify protein concentration

EDUCATION

UNIVERSITY CITY HIGH

September 2022 - May 2026

San Diego, CA

- PLTW Biomedical Pathway
- Co-President, Biotechnology Club

SAN DIEGO MIRAMAR COLLEGE

January 2024 - May 2028

Biotechnology Program, San Diego, CA

SKILLS

- Agarose gel electrophoresis
- Polymerase chain reaction (PCR)
- Genome databases (BLAST, UCSC genome browser, EBI, PDB, UniProt)
- BCA protein assay
- DNA extraction
- Mammalian and bacterial cell culture
- R, HTML, and CSS programming languages
- Western blot