Anatori Serena A. Prieto

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Education

University of California, Berkeley

May 2018 - Present

- · Major: Bioengineering
- Expected graduation: December 2022
- Relevant courses: Engineering Molecules, Drug Delivery, Macromolecular Synthesis and Cellular Function
- Current GPA: 3.527

Experience

Undergraduate Researcher

Aug 2021 - Present

- Nuñez Lab, Barker Hall, UC Berkeley
 - Optimizing CRISPRoff epigenetic gene editing
 - Techniques: iPSC, Cas9 modular modification, HEK293t cell culture

Process Sciences Intern

Jun 2021 - Aug 2021

- Astellas Gene Therapy, South San Francisco
 - Tested colony selection and screening to improve productivity of E. coli fermentation used in AT845 gene replacement therapy for Pompe disease
 - Performed transfection and perfusion of 2L, 10L, and 50L bioreactors
 - · Passaged and inoculated HEK239 seed train cell culture
 - · Communicated findings in team presentations and a technical report
 - Techniques: NGS sequencing, Qiacube miniprep, Dasgip fermentation, Cedex and Nova Bioanalyzer, Cary 60 UV-vis spectrometer, Sartorius bioreactor, sampling, passaging, perfusion, transfection, Bioprofile Flex, harvest and clarification, sterile wielding, DOE, JMP, Benchling

Strain Engineering Intern

May 2020 - Dec 2020

Huue, Oakland Genomics Center, Oakland

- Performed genetic integration and transformation on our base strain to improve product yield and efficiency
- · Analyzed and presented HPLC-derived data
- Defined scalable assays to screen base strain in 96-well format
- Techniques: HPLC, electroporation, Golden Gate Assembly, PCR, gel electrophoresis, competent cell prep, CRISPR-based genetic integration, test digest, cell banking, DNA recovery

Undergraduate Researcher

May 2019 - Dec 2019

- Joint Bioenergy Institute, Lawrence Berkeley Lab, Emeryville
 - Created Python scripts to process genetic data
 - Designed graphs and diagrams for publication currently under review
 - Techniques: Scientific publication, genetic transformation, plasmid extraction, Nanodrop, NCBI Blast+, Biopython

Undergraduate Researcher

Sept 2018 - May 2019

Terry Lab, Koshland Hall, UC Berkeley

- Screened bacteria consortia found in petroleum-contaminated areas
- Genetically modified E. coli to contain petroleum degradation enzymes
- Techniques: media prep, GCMS, microscopy, spectrophotometry, Gibson Assembly, laboratory safety

Skills

Computer Programming

· SQL, Python