

Brian Monteverde

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Professional Goals: Seeking to expand my knowledge of the software and web development world. I'm looking to use my skill set to improve a company, where I can grow alongside them.

Education

University of California, San Diego (June 2018)

Bachelor of Science: Biochemistry and Cell Biology

Professional Skills

- Data analysis and research presentation
- Analysis of published research papers
- Familiarity with diseases and viruses
- Proficient in Microsoft Office Suite
- Familiarity with stem cells and regeneration
- Experienced with JavaScript, JQuery, and Node
- Experienced with HTML and CSS

Relevant UCSD Coursework

Recombinant DNA Laboratory

- Focused on site directed mutagenesis using agarose gel electrophoresis, PCR, restriction enzymes and ligation, and competent cell culturing.
- Introduction to RNAi in *C. elegans*, and gene analysis using SNPs of saliva from PTC paper.

Biochemical Techniques Laboratory

- Analysis of LDH using affinity and size exclusion chromatography, Bradford protein assays, and native gel electrophoresis
- Determination of Sea Urchin egg fertilization using SDS-PAGE, western blots, ELISA, and bioinformatics.
- Analysis of FPs using restriction enzyme digests, gel electrophoresis, and lysozyme crystallization.

Organic Chemistry Laboratory

- Focused on techniques such as macro and microscale recrystallization, liquid-liquid extraction, solid-liquid extraction, purification through sublimation, adsorption chromatography, column and size exclusion chromatography, TLC analysis, and Fisher esterification with distillation and gas chromatography analysis.

Basic Chemistry Laboratory

- Focused on basic laboratory techniques such as gravimetric analysis, organic acid analysis, iron complex synthesis and analysis, qualitative analysis, and atomic spectral analysis.

Professional Experience

The Scripps Research Institute (February 2019 - Present)

Flow Cytometry Operator

- Set up and maintain proper fluidics on multi-laser cell analyzers and run daily QC procedures.
- Prepare flow cytometers for cell sorting by running daily QC setup, aligning sort streams and voltage plates, sterilizing the environment, and setting drop delay through stream frequency and amplitude adjustments.
- Perform cell sorts by activating fluorescent light filters, setting gates based on observed populations and the researcher's desired cell types, and troubleshooting any errors during the process.
- Maintain communication with researchers, manage scheduling, and log invoices for sort times.
- Monitor on hand supply levels, place and track orders, and prepare reagents necessary for analysis and sorting.

Starbucks (August 2015 - Present)

Shift Supervisor

- Supervise shifts including creating schedules, job assignments and oversee day to day operations of store.
- Schedule and assist with maintenance and repair of machines and equipment.
- Ensure compliance with California Health and Safety Codes.

UCSD International Volunteer - Nicaragua (March 2018)

- Volunteered to build a community center in support of their honey bee project, where I assisted in a broad range of housing construction tasks. Served as an English/Spanish translator to facilitate communication.