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Job History

Upstream Process Development

Aldevron - Madison

Scientist I *May 2022 – Present*

- Designed and executed experiments for *E. coli* fermentation of recombinant proteins to develop optimized growth conditions, media composition, and process parameters
- Led projects from technical planning to execution, including client consultations and report writing, consistently resulting in successful delivery of project objectives and outcomes
- Proficient in shake flask and small-scale bioreactor fermentation, cell culturing, transformation, aseptic technique, and analysis via SDS-PAGE
- Provided support to the process engineering team in scaling up developed processes for large-scale production, serving as a subject matter expert for their manufacture
- Delivered results by continuously learning and working closely with my team, embracing diverse perspectives, and actively seeking to add new technologies to my repertoire

Downstream Biomanufacturing

Aldevron - Madison

Associate Scientist II | Scientist I *June 2020 – May 2022*

- Responsible for the purification of research grade proteins, IVT enzymes, and nucleases according to manufacturing protocol and operating necessary equipment for production
- Proficient in high pressure homogenization, column packing, AKTA chromatography and programming, SDS-PAGE, tangential flow filtration, and buffer preparation
- Experienced in high throughput antibody purification processes in a low endotoxin environment, including A660/A280 concentration determination and size exclusion chromatography
- Ensured project success by recording protein yield measurements, analyzing product purity, and adapting to problems as they arise throughout the manufacturing process

Prior Experience

Embedding/Histology

Labcorp Drug Development (formerly Covance)

Study Technician Intern *Summer 2019*

- Performed histology tasks by embedding animal tissues in compliance with SOPs, GLPs, and regulatory guidelines
- Improved Pathology department's digital slide scanning process by implementing new equipment
- Presented improvements to upper management, detailing the impact of new technology implementation

Undergraduate Research

Federico Rey Research Lab

Capstone Research Project *2019 – 2020*

- Investigated the humanized gut microbiome of mice and its correlation with Atherosclerosis
- Selected and prepared appropriate growth media to plate and culture cecal bacteria using anaerobic techniques
- Extracted bacterial DNA and sequenced 16S portion of the genome for data analysis, interpretation, and presentation
- Documented processes and detailed results for use in research proposal

Education

University of Wisconsin — Madison *2016 – May 2020*

B.S. Microbiology