Nhi Xuan Luu

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EDUCATION

University of Maryland, Baltimore County (UMBC)   **Rockville, MD**

B.S. Translational Life Sciences (Applied Biotech) – Bioinformatics Track; GPA: 4.0   *Dec 2023*

TECHNICAL SKILLS & KNOWLEDGE AREAS

Programming: Python, R, Bash/Shell, Shiny, HTML/CSS, AWS, GitHub, Docker, API, Cloud Computing/HPC, SQL
Laboratory/Instrumentation: NGS/WGS Sequencing (DNA extraction, Library Prep, PCR, Gel electrophoresis), Cell culture, Immunostaining, Spectrophotometry (Nanodrop), HPLC, microbiology techniques
QC Experience: SOP, cGMP, GDP, ALCOA+, GLP, EM/UM testing, CAPA, aseptic techniques, aseptic process validation, GxP
Software: LIMS (LabVantage), Microsoft Office

WORK EXPERIENCE

Eurofins Professional Scientific Services (PSS)   **Frederick, MD**
QC Scientist II – QC Microbiologist   *04/2024 – Present*

- Performs EM/UM sampling, including air monitoring, water testing, surface monitoring, genus and species identification of microbes according to SOPs and generation of trend reports on EM and product release data
- Performs routine and non-routine inspection of media fill samples (AOQ/APV), collection and/or testing of media, final product, validation-related, and critical utility samples according to SOPs
- Performs activities supporting final product release testing (endotoxin, sterility, particle isolation) and raw material testing (growth promotion)
- Participate in deviations, investigations, and CAPAs, particularly in relation to EM action level excursions, testing and OOS results. Coordinate waste management, LEAN, 6S, and continuous improvement
- Comply with regulatory requirements, trainings, and quality systems (GHS, 21 CFR Part 11/210/211, cGMP, GxP)
- Proficiency in LIMS (LabVantage); Grade B Gowning certified

Adaptive Phage Therapeutics, Inc. (APT)   **Gaithersburg, MD**
Genomics Product Development/Phage Hunting Intern   *08/2022 – 08/2023*

- Enhanced phage genome accuracy and quality for FDA-regulated analysis by integrating BV-BRC databases and Mummer4 annotation into existing Docker and Nextflow scripts on AWS
- Acquired 20-hour training on phage and bacterial genome sequencing monitored by the APT Genomics Team, utilizing industry-standard DNA sequencing technologies (Qbit, Illumina RNA-Seq) and sequencing techniques (primer design, DNA extraction, library prep, Gel electrophoresis)
- Utilized aseptic microbiology techniques to enrich, isolate, and purify targeted phages against multi-drug resistant bacterial strains of clinical isolates of APT's current clinical trials
- Assisted in establishing and improving methods and SOPs according to cGMP and GLP standards in BSL-2 laboratory, ensuring safe and efficient utilization of lab procedures and instruments

RESEARCH PROJECTS

University of Maryland, Baltimore County   **Rockville, MD**
Bioinformatics Research Assistant - Volunteer Intern   *01/2023 – 04/2024*

- Implemented SQL databases and comparative genome analysis on VCFGenerator genome output of 15 different extremophiles from NCBI BioProjects with comprehensive statistical summary on R-Shiny Genome Browser
- Merck Fellowship: Designed and developed a user-friendly Genome browser using R/R-Shiny, automated back-end annotation workflow (https://doi.org/10.5281/zenodo.10552757) to analyze NCBI genomes
- **Pending Publication**: Experimental Neutral Theory of Evolution on Genetics Adaptations and Mutation Rates of Ionizing Radiation Resistance in *Halobacterium salinarum*