

Samprity Ankita

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PROFESSIONAL SUMMARY

Research-focused Medical Laboratory Scientist with 4+ years of hands-on experience in clinical and translational research, specializing in cancer immunotherapy, cell-based therapies, and GMP-compliant laboratory operations. Proven expertise in human sample processing, CAR-T cell manufacturing, molecular biology techniques, and quality systems. Currently pursuing a Master's degree in Clinical Research, with strong interest in advancing translational science and human disease research.

EDUCATION

Massachusetts College of Pharmacy and Health Sciences (MCPHS) <i>Master of Science in Clinical Research</i>	Boston, MA Expected Graduation: September 2026
University of Massachusetts Boston <i>Bachelor of Science in Biology</i>	Boston, MA 2017 – 2021

PROFESSIONAL EXPERIENCE

Beth Israel Deaconess Medical Center – Avigan Lab <i>Medical Laboratory Scientist (Clinical Research & Immunotherapy)</i>	Boston, MA March 2022 – Present
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- Conduct translational clinical research in cancer immunotherapy, supporting the manufacturing and evaluation of fusion vaccines and CAR-T cell therapies
- Perform end-to-end cell processing, including receipt, handling, cryopreservation, and documentation of human-derived cell products
- Manufacture CAR-T cells using the Miltenyi CliniMACS Prodigy, ensuring strict adherence to cGMP and regulatory standards
- Execute and analyze laboratory assays including flow cytometry, manual and automated immunohistochemistry staining, and cell viability testing
- Maintain compliance with QA/QC protocols, safety regulations, and infection control policies within a clinical manufacturing environment
- Troubleshoot laboratory equipment and resolve workflow issues to ensure uninterrupted production timelines
- Manage laboratory inventory, reagents, and supplies to support ongoing clinical research operations
- Train and mentor new laboratory staff, contributing to a collaborative and high-performing research team
- Document experimental procedures, deviations, and results in accordance with institutional and regulatory requirements

Manus Bio <i>Laboratory Intern</i>	Cambridge, MA June 2021 – February 2022
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- Prepared, maintained, and validated media, buffers, and reagents for research and production workflows

- Supported SOP documentation, ensuring accuracy and compliance with laboratory standards
- Received, logged, and stored laboratory shipments following proper documentation protocols
- Performed routine lab maintenance, sterilization, and organization to support operational efficiency

University of Massachusetts Boston – IMSD Program Lab

Boston, MA

Research Laboratory Intern

August 2019 – January 2021

- Extracted genomic DNA from human and environmental samples using standardized molecular biology protocols
- Conducted PCR amplification of bacterial 16S rRNA genes and validated results via gel electrophoresis
- Prepared samples for next-generation sequencing (Illumina MiSeq) and performed downstream bioinformatics analysis using QIIME2
- Conducted statistical analysis in R to evaluate microbial community composition and antibacterial activity

Dana-Farber / Harvard Cancer Center

Boston, MA

Research Trainee

May 2019 – Aug 2019

- Conducted preclinical research evaluating anti-malarial drug effects on pediatric brain cancer cell lines
- Performed in vivo mouse studies, including tumor implantation and experimental monitoring
- Assisted in data collection, analysis, and research reporting under faculty supervision

TECHNICAL SKILLS

Cell culture, aseptic technique, cryopreservation, PCR, DNA extraction, gel electrophoresis, CAR-T manufacturing, fusion vaccines, Flow cytometry, immunohistochemistry, cGMP, QA/QC documentation, safety & infection control, Experimental data analysis, Equipment troubleshooting, inventory management, team training