

Anas Wheba

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PROFESSIONAL SUMMARY

Scientist II and biomedical engineer with hands-on experience in upstream bioprocessing, mammalian cell culture, CHO cell workflows, Wave Rockers, 2 L bioreactors, process monitoring, and GMP/GDP documentation within a cGxP environment. Promoted to Scientist II within approximately one year based on performance and expanded technical responsibilities. Serve as a Nova FLEX 2 Subject Matter Expert (SME) supporting operation, maintenance, troubleshooting, and cell culture sample analysis. Research background spans biomaterials, tissue engineering, molecular biology, and AI/ML-based biomedical analysis, with four scientific publications.

CORE COMPETENCIES

UPSTREAM BIOPROCESSING	Mammalian cell culture, CHO cells, Cell thaw, Cell expansion, Cell harvest, Wave Rockers, 2 L bioreactors, Media preparation, Aseptic technique, Process monitoring
GMP / Quality / Documentation	cGxP, GMP, GDP, batch records, data integrity, traceability, audit readiness, Safe/Clean/Compliant operations.
Instrumentation & Analytics	Nova FLEX 2, cell density/viability monitoring, critical process parameters, pH meters, balances, pumps, tube welders, NanoDrop, microscopy.
Molecular Biology & Biomaterials	PCR, gel electrophoresis, DNA analysis, plasmid purification, bacterial transformation, hydrogels, electrospinning, scaffold fabrication.
Data Science & Software	Python, MATLAB, machine learning, deep learning, image processing, ImageJ, GraphPad, Minitab, SPSS, R, C/C++, Microsoft Office.

PROFESSIONAL EXPERIENCE

Eurofins Professional Scientific Services New England

Rensselaer, NY

Scientist II

04/2026 – Present

Biochemist I- Process and controls

05/2025 – 04/2026

- **Promoted from Biochemist I - Process and Controls to Scientist II** within approximately 11 months based on performance and expanded technical responsibility.
- Execute end-to-end upstream mammalian cell culture workflows from cell thaw and expansion through harvest using Wave Rockers and 2 L bioreactors in a controlled cGxP/GMP environment.
- Serve as Nova FLEX 2 Subject Matter Expert (SME), providing technical ownership for instrument operation, maintenance, troubleshooting, and cell culture sample analysis.
- Set up, assemble, clean, and maintain bioreactor systems and supporting process equipment to sustain reliable, inspection-ready operations.
- Prepare and aliquot cell culture media and process materials using balances, pumps, tube welders, and pH meters while maintaining accuracy, traceability, and GMP compliance.
- Author and maintain GMP batch production records and process documentation supporting data integrity, batch traceability, audit readiness, and release activities.
- Monitor cell culture conditions and critical process parameters while maintaining Safe, Clean, and Compliant operations and adherence to site procedures.

Wang's Lab, University of New Haven

West Haven, CT

Research Assistant

08/2023 – 05/2024

- Performed mesenchymal stem cell culture for tissue engineering and biomaterials research applications.
- Developed Python- and MATLAB-based image analysis workflows to evaluate cell differentiation and support quantitative research outputs.
- Contributed to scientific writing and publication development, including review articles in biomaterials and biomedical technology.

BMDi Lab, University of New Haven

West Haven, CT

Research Assistant

09/2022 – 05/2023

- Supported development and characterization of hydrogels for biomedical applications through experimental design, laboratory execution, and data interpretation.
- Applied biomaterials knowledge to translate experimental findings into practical biomedical research directions.

EDUCATION

University of New Haven	West Haven, CT
Master of Science in Biomedical Engineering & Bioengineering	May 2024
Awards: Dean Scholarship	GPA: 3.90/4.0
Istanbul Medipol University	Istanbul, Turkey
B.Sc. in Biomedical Engineering	June 2021
Awards: Honor's degree	GPA: 3.35/4.0

SELECTED PUBLICATIONS

- Malik, A., Wheba, A., Yesudasan, S., Olagunju, O., Gu, S. X., Yarovsky, T. O., Hwa, J., & Vince, E. (2025). Enhancing nucleic acid delivery via lipid nanoparticles: Integrating artificial intelligence for predictive modeling in formulation design. *Frontiers in Medical Technology*, 7.
- Fasciano, S., Wheba, A., Ddamulira, C., & Wang, S. (2024). Recent advances in scaffolding biomaterials for cultivated meat. *Biomaterials Advances*, 213897.
- Wheba, A. G., & Kayasandik, C. B. (2023). Enhancing collagen bundle structure analysis: A robust approach through crossing density analysis with orientable filters. *KBIDGE Publications*.
- Amoako, K., Pusey, R. F., Haddad, W. A., Majin, S., Wheba, A., & Okwuogori, C. (2023). PULM3: The effects of a two-step coating process and flow on artificial lung fiber fouling. *ASAIO Journal*, 69, 88.