

MIKIAS H. WOLDETENSAE

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PROFESSIONAL SUMMARY

Multidisciplinary scientist with 8+ years experience across immunology, virology, and assay development. Skilled in wet/dry lab workflows, regulated documentation, and optimization for translational and preclinical research.

CORE SKILLS

Wet Lab: Flow Cytometry, CyTOF, Microscopy, ELISA, Western Blot, PCR, qPCR, CRISPR, RNA, Protein, Extraction

Cell Assays: CAR-T Phenotyping, Primary Mammalian Cell Culture, Viral Infection Models, Cytokine Profiling

Regulatory: BSL-2, IACUC, HIPAA, DEA, SOP Writing, ELN Documentation, Inventory Management

Data Science: R, Python, SQL, Unix, AWS, Seurat, DESeq2, GraphPad Prism, Statistical Modeling, Machine Learning

Tools: SnapGene, FlowJo, Fusion 360, ImageJ/FIJI, VSCode, Jupyter Notebook, RStudio, GitHub, Power BI

PROFESSIONAL EXPERIENCE

Field Application Scientist | Account Manager

Selleck Chemicals – Seattle, WA | 2025

- Supported 50+ labs with assay troubleshooting and reagent selection.
- Built CRM tracking pipeline; improved client retention by 15%.

Research Technician II | Data Analyst

Fred Hutchinson Cancer Center – Seattle, WA | 2024

- Optimized mass cytometry (CyTOF) for PBMC phenotyping; authored SOPs.
- Analyzed PBMC single-cell data using Seurat; identified relevant NK cell markers in clinical trials.
- Improved cryostorage workflow; boosted viability by 20%.

Research Technician I/II/III | Lab Manager

Benaroya Research Institute – Seattle, WA | 2019–2024

- Validated 3 novel humanized mouse models for Rhinovirus induced asthma exacerbation studies.
- Designed and implemented DNA/RNA/protein triple extraction protocol; cut costs 92%.
- Built 24-color flow panels; automated prep, QC, and analysis in R.
- Diagnosed recombination errors in 30+ Cre/Flox lines; trained 20+ staff on updated SOPs.
- Applied coding, 3D printing & reagent tuning for 80% increased efficiency in genotyping workflow.
- Managed BSL-2 lab operations, inventory, and regulatory audits.

Phlebotomist & Medical Assistant

Bloodworks Northwest – Seattle, WA | 2017–2019

- Performed 2,000+ blood draws with 98% success rate across fixed and mobile units.
 - Trained 10+ new staff in venipuncture, safety, and donor interaction protocols.
 - Reduced adverse events by 30% through improved prep and post-draw procedures.
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EDUCATION

B.S. Molecular, Cellular & Developmental Biology + B.A. Psychology | Univ. of Washington, 2016

Minor: Mathematics

CERTIFICATIONS

- IBM Data Science Certificate (2024)
 - Phlebotomy & Medical Assistant License – WA State Dept. of Health (2017–2019)
 - BSL-2, HIPAA, IACUC, IBC, DEA, Radiation Safety (Active)
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PROJECTS

- **Job Alert Bot:** Automated biotech job tracking with Python, REST APIs, and AWS EC2/S3.
- **SpaceX ML Model:** Built ML models to predict Falcon 9 landings from telemetry data.
- **Climate Sensor:** Assembled an Arduino sensor with PCB and 3D-printed casing.
- **Window Latch:** Engineered and printed a thermally stable hinge for car window repair.