Ujas Patel

New York, NY upatel1998@gmail.com +1 312-783-8443 ujas-patel-184585335

Education

University of Toronto *Sept 2021 – Mar 2024*
MSc in Medical Sciences

- **Thesis:** "Uncovering the mechanism of HDAC3-mediated radiosensitization in small cell lung cancer"
- **Coursework:** Radiation Biology, Intellectual Property Fundamentals, STARS21 Program

University of Toronto *Sept 2016 – Jun 2020*
HBSc in Life Sciences

- GPA: 4.0/4.0

Skills

Laboratory: Cell Cultures, Aseptic Techniques, Molecular Biology and Cloning Techniques, Nucleic Acids and Protein Extraction, Purification, and Quantification, Cell-based and Imaging Assays, Confocal Microscopy, Mice Models

Softwares: Microsoft Office, GraphPad Prism, RStudio, ImageJ FIJI, SnapGene, LICORbio Image Studio

Research: Data Management, Data Visualization, Manuscript Writing, Technical Reporting, Literature Reviews

Experience

Waypoint Bio, Inc. **Feb 2025 – Present**
Associate Scientist *New York, NY*

- **In vivo study design and execution** – evaluated the safety and efficacy of **CAR-T cell therapies** in mouse models for solid tumor cancers, performing a range of **in vivo techniques** including tumor and CAR-T cell injections, tumor growth and endpoint monitoring, and tissue harvesting for spatial analyses
- **Developing new xenograft cancer models** – cultured and maintained human cancer cell lines, established and optimized xenograft models by assessing tumor growth kinetics and improving take rates
- **Data management and collaboration** – maintained detailed and traceable records of experimental data in lab notebooks and **collaborated cross-functionally with research teams** to plan studies, troubleshoot protocols, and achieve key project milestones

University Health Network **Sept 2021 – Sept 2024**
Graduate Student Researcher *Toronto, ON*

- **First-author publication** (Patel, Shi et al. 2025) in the **Journal of Molecular Cancer Therapeutics (AACR)**
- **Secured $30,000 in research funding** from the Canadian Institute of Health Research (**CIHR**) and the Strategic Training in Transdisciplinary Radiation Science for the 21st Century (**STARS21**) Program
- **Presented research findings at scientific conferences**, including UTDRO Research Day (2024), IMS Scientific Day (2023), and NCI SCLC Consortium's Graduate Student Symposium (2023)
- Investigated the mechanism and potential of a protein target, HDAC3, in improving radiation sensitivity of small-cell lung cancer using **cell lines and xenograft models**
- Designed and executed complex *in vitro* cell-based and fluorescence-based imaging and reporter assays

Sleep and Human Evolution Lab at UofT **Sept 2018 – Jul 2021**
Lab Manager *Mississauga, ON*

- **First-author publication** (Patel et al. 2021); **co-author publications** (Kilius et al. 2021; Reyes et al. 2021; Woods et al. 2020)
- Collaborated with cross-functional research teams across multiple locations to design and execute studies
- **Developed resources and standardized protocols** for processing and analyzing sleep data
- Maintained the lab's sleep database for data analysis and reporting using **advanced Excel functions and RStudio**
- Trained graduate students on the lab's standardized sleep data processing workflow and best practices

Awards

- **Richard P. Hill Award** (*Department of Radiation Oncology, University of Toronto*) - Awarded for academic excellence in research by a graduate student.
- **Ontario '5-year Volunteer Service' Award** (*Brampton Civic Hospital, William Osler Health System*)
- **Jackie Hart Memorial Scholarship** (*Department of Biology, University of Toronto*) - Awarded for highest overall standing in the Biology Specialist Program.