

Logan Hillger

Brooklyn, NY | hillgerl@mskcc.org | (603) 960-4235 | www.linkedin.com/in/loganhillger

1

EDUCATION

University of Vermont	Burlington, VT
BS Biological Sciences	May 2022

RESEARCH AND PROFESSIONAL EXPERIENCE

Memorial Sloan Kettering Cancer Center New York, NY	March 2025 - Present
--	----------------------

Research Technician | Daniel Heller Lab

- Helped develop and produced senescence-targeted nanoparticles that improve immune infiltration of fibrotic tissues
- Comparing kidney damage in mice receiving different RSL3 treatments (ie. nanoparticle vs free drug) by quantifying KIM-1 biomarker levels through ELISA
- Developed a p-selectin targeting nanoparticle using an estrogen receptor degrader (fulvestrant), and administering to mouse models with xenograft ER+ positive breast tumors
- Implanted estradiol pellet to promote estrogen production in immunocompromised mice
- Cultured various cancer and immune cell lines for use in efficacy studies and in vivo use
- Quantifying protein enrichment or degradation through western blot
- Maintained laboratory's tissue culture room. Includes incubators, biosafety cabinets, microscopes, and centrifuge
- Managed and genotyped mouse colonies housed in both BSL-1 and BSL-2 areas

Memorial Sloan Kettering Cancer Center | New York, NY October 2023 – March 2025

Laboratory Animal Care Technician | Center for Comparative Medicine & Physiology

- Maintained and cared for multiple mouse colonies for various labs
- Coordinated with researchers and veterinary staff to ensure mice remained healthy and in controlled environments
- Ensured all animal study practices were compliant with IACUC guidelines

University of Vermont | Burlington, VT

September 2019 – May 2022

Undergraduate Researcher | Laura May-Collado Lab

- Analyzed spectrograms in RAVEN from passive acoustic monitoring data out of Dolphin Bay Panama in order to identify and extract data from dolphin whistles (frequency, amplitude, modulation, etc.)
- Contributed data to a project that analyzed dolphin communication recovery when intrusive whale watching came to a halt during COVID-19

PUBLICATIONS

ORCID: 0009-0006-3614-3160

Journal Papers Published

Hinterleitner, C.* , Barther, V.* , Goldberg, H.* , Vogt, K.† , Perea, A. † , **Hillger, L.R.** † , Ruiz, S. † , McHugh, D., Ho, Y., Chaves-Perez, A., Skamagki, M., Flowers, S., Rekhtman, N., Zhuang, X., Dessotti Barretto, G., Li, X., Watson, J., Luan, W., Simon, J., Tammela, T., Gardner, R., Rudin, C., Romesser, P., Bott, M., Styers, H., Filliol, A., Heller, D., Lowe, S. Senescence-directed nanotherapy ameliorates fibrosis and overcomes immune exclusion in cancer. Science.

- * = first author, † = equal contribution

Journal Papers in Review

Panagiotokopoulou, M., Sullivan, A.N., Argyropoulos, K.V., Kousa, A.I., **Hillger, L.R.**, Pierpont, K., Nunez, J., Rosiek, E., Mazzoni, F., Feng, W., Grabarnik, E., Egorova, A., Gipson, B., Ghale, R., Ruiz, S., Seshan, S.V., Muthukumar, T., Perales, M., Hanash, A.M., Van Den Brink, M.R.M., Jaimes, E.A., Heller, D.A. Galectin-3 is a nanotherapeutic target in Graft-versus-Host Disease Mediated Kidney Injury. Nature Biomedical Engineering.

PRESENTATIONS

Posters

Hinterleitner, C.*, Barther, V.*, Goldberg, H.*, Vogt, K.†, Perea, A. †, **Hillger, L.R.** †, Ruiz, S. †, McHugh, D., Ho, Y., Chaves-Perez, A., Skamagki, M., Flowers, S., Rekhtman, N., Zhuang, X., Dessotti Barretto, G., Li, X., Watson, J., Luan, W., Simon, J., Tammela, T., Gardner, R., Rudin, C., Romesser, P., Bott, M., Styers, H., Filliol, A., Heller, D., Lowe, S. Characterization of a Senescence-Modulating Nanoparticle for Fibrosis and Tumor Remodelling. Tri-Institutional Chemical Biology Symposium.

TEACHING EXPERIENCE

University of Vermont | Burlington, VT

August 2021 – December 2021

Teaching Assistant | Department of Biology

- Assisted in instructing Introduction to Marine Sciences
- Led weekly office hours to answer any student's questions regarding course content or assignments
- Led exam preparation sessions to review all content covered by the exam that all students could attend
- Assisted in grading assignments and exams

LEADERSHIP EXPERIENCE

UVM Biotech Club | Burlington, VT

August 2020 – May 2022

President and Co-Founder

AWARDS

MSKCC Spot Bonus

2026

Memorial Sloan Kettering Cancer Center

- Nominated and received as a reward for exceptional performance as a research technician

Rookie Technician of the Year Award

2024

Center for Comparative Medicine and Pathology

- Received from management as recognition for best performance amongst first-year technicians

Team Player Award

2023-24

Center for Comparative Medicine and Pathology

- Voted by fellow staff members as the most reliable and helpful technician

SKILLS

Programming and Analysis: R, C++, GraphPad Prism

In Vivo techniques: Fluorescence/bioluminescence imaging, injections, rodent surgery, sterile technique, genotyping, anesthesia, necropsy

Lab techniques and assays: LC/MS, DLS, mammalian cell culture, cell viability assays, ELISA, Western Blot, nanoassembly (microfluidics and nanoprecipitation), flow cytometry, microscopy

Applications: Adobe Illustrator, Microsoft Office, QuPath