

Vishaan Nursey

Boothbay Harbor, Maine
USA, 04538

Vnursey@bigelow.org
917-601-0642

Education

The Johns Hopkins University Class of 2018
Major: Natural Sciences

Baltimore, MD
September 2014 – May 2018

Work Experience

Research Technician at Bigelow Laboratory for Ocean Sciences

East Boothbay, ME
June 2021- Present

- Testing a variety of methods to produce an agricultural feed additive to reduce methane emissions from cattle.
- Routinely conducted large scale yeast cultivations using a 13-litre bioreactor. Achieved high yield, and reproducible results with minimal contamination.
- Expert in cell lysis techniques and downstream purification of bioactive products from the crude lysis extract.
- Frequently used Fast protein liquid chromatography to isolate target proteins of interest. Conducted successful purifications independently with reproducible results.
- Strong molecular biology bench-top skill set. Comfortable running PCR's, Plasmid isolations, DNA isolations, Gibson Assembly assays, and Bradford protein concentration tests. Responsible for the growth and maintenance of multiple yeast and aquatic microalgae strains for research purposes.
- Learned valuable skills pertaining to enzymatics and enzyme kinetics utilizing Spectrophotometric assays.
- Capable of operating GCMS in order to identify end products of chemoenzymatic reactions.
- Responsible for multiple laboratory management tasks including maintenance and troubleshooting of the Instrumentation and machinery mentioned above, shipping and receiving of hazardous compounds, interacting with vendors and lab visitors, and upholding laboratory safety and cleanliness standards.

Associate Scientist at Northwell Health's Feinstein Institute for Medical Research

Manhasset, NY
June 2018 – June 2021

- Leading research projects to determine key biomarkers associated with two autoimmune conditions known as Interstitial Cystitis and Neuromyelitis Optica.
- Very comfortable isolating cells and biomolecules from various sample types. Isolated and quantified DNA and RNA from over 120 human samples. Routinely utilizes gel electrophoresis and PCR to analyze macromolecules and amplify DNA. Familiar with Flow Cytometry, ELISA's, and a host of other chemical analysis assays.
- Responsible for the growth and maintenance of multiple cell culture lines used for recombinant DNA analysis.
- Other duties include writing manuscripts, submitting grant and IRB applications, appropriately cryopreserving and organizing hundreds of research samples, and maintaining spreadsheets containing statistics from over 600 patients.
- Mentored 6 students ranging from high school to medical school by teaching them necessary lab skills, overseeing their summer research projects and preparing them for poster presentations.

Publications

- Heaney, C., Knisel, A., Vuthoori, R., Golombeck, D., Fernandez, H., Lima, B., Taylor, J., Davidson, K., Kennedy, K., **Nursey, V.**, Miller, E., & Maybaum, S. (2023). Subjective Assessment Underestimates Frailty in Patients With Heart Failure Referred for Advanced Therapies. *ASAIO journal (American Society for Artificial Internal Organs : 1992)*, e001894. Advance online publication. <https://doi.org/10.1097/MAT.0000000000001894>
- Moldwin, R. M.*, **Nursey, V.***, Yaskiv, O., Dalvi, S., Macdonald, E. J., Funaro, M., Zhang, C., DeGouveia, W., Ruzimovsky, M., Rilo, H. R., Miller, E. J., Najjar, S., Tabansky, I., & Stern, J. N. H. (2022). Immune cell profiles of patients with interstitial cystitis/bladder pain syndrome. *Journal of translational medicine*, 20(1), 97. <https://doi.org/10.1186/s12967-022-03236-7>
* denotes co-first authorship.
- Tabansky, I., Moldwin, R. M., Liu, M., Najjar, S., Keskin, D. B., **Nursey, V.**, Laurent, M., Birder, L. A., Brusica, V., Zhang, G., & Stern, J. N. H. (2022). A shared B-cell clonotype in patients with interstitial cystitis/bladder pain syndrome presenting with Hunner lesions. *Continence Reports*, 4, 100015. <https://doi.org/10.1016/j.contre.2022.100015>
- Tabansky, I., Tanaka, A. J., Wang, J., Zhang, G., Dujmovic, I., Mader, S., Jegannathan, V., DeAngelis, T., Funaro, M., Harel, A., Messina, M., Shabbir, M., **Nursey, V.**, DeGouveia, W., Laurent, M., Blitz, K., Jindra, P., Gudesblatt, M., Regeneron Genetics Center, King, A., ... Stern, J. N. H. (2022). Rare variants and HLA haplotypes associated in patients with neuromyelitis optica spectrum disorders. *Frontiers in immunology*, 13, 900605. <https://doi.org/10.3389/fimmu.2022.900605>
- Harel, A., **Nursey, V.**, Stern, J., & Najjar, S. (2019). Development of Resistance to B-Cell Depletion Following Ten Years of Effective Rituximab Treatment in a Patient with Neuromyelitis Optica (P1. 2-008).

Additional Skills: dissections, histology, cell counting, assay troubleshooting, laboratory safety, Microsoft office proficiency, conversational Spanish, fluent in Hindi, avid naturalist, PADI advanced open water scuba diver.