

BLAINE PATTAVINA
212 Taylor St Vernon, CT 06066
(860) 372-2267 | bpattav1@ithaca.edu

EXPERIENCE

The Jackson Laboratory, Farmington, ME

- Mouse breeding and colony maintenance
- Genotyping via PCR
- Retro-orbital bleeds
- Subcutaneous tumor implant surgery
- Orthotopic pancreas tumor graft surgery
- Lab safety/compliance officer

Research Assistant III
Aug 2023–present

The Jackson Laboratory, Bar Harbor, ME

- Mouse handling and restraint
- Mouse euthanasia via CO₂ or cervical dislocation
- Drug administration to mice – Intravenous tail, subcutaneous injections, oral gavage
- Cardiac puncture and plasma/serum separation
- Necropsy
- EEG recording and analysis using Sirenia Pro
- Neuromuscular junction staining/counting
- Confocal image acquisition
- Use of Graphpad Prism, LabChart, Ilastik, CellProfiler and ImageJ for data analysis
- Electromyography with ADI instruments (recording + analysis of myotonic discharges, Compound Muscle Action Potential, Nerve Conduction Velocity)
- Isometric torque recording and analysis (leg muscle, Force frequency curves)
- Whole body plethysmography (recording w/ DSI instruments and analysis w/ Finepointe)

Research Assistant II
Nov 2018–Aug 2023

Buck Institute for Research on Aging, Novato, CA

- *Drosophila* breeding and maintenance
- Immunohistochemistry stains of intact fly intestines (DAPI, PH3, Acridine Orange, Gamma H2aX)
- Imaging of stained intestines via fluorescent microscopy
- RT-PCR of extracted tissues
- Presenting updated data to lab and Principal Investigator monthly (Using Microsoft PowerPoint)

Research Assistant
Aug 2016 – Jul 2018

EDUCATION

University of Illinois, online
Master of Science: Management

August 2020 – est. 2024

Dominican University of California, San Rafael, CA
Master of Science: Biological Sciences

May 2018

Ithaca College, Ithaca, NY
Bachelor of Science: Biochemistry

May 2016

OBJECTIVE

My objective is to leverage my experience in the research field to be a valued addition to any team. I have a particular interest in neurobiology and disorders relating to the nervous system. I feel obligated to do my part to contribute to the progression of personalized medicine and the treatment of human diseases.

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PUBLICATIONS

Sharma, Amit, et al. "Musashi expression in intestinal stem cells attenuates radiation-induced decline in intestinal permeability and survival in *Drosophila*." *Scientific reports* 10.1 (2020): 19080.

Watson, Mark A., et al. "S3QELs protect against diet-induced intestinal barrier dysfunction." *Aging Cell* 20.10 (2021): e13476.

Spaulding, Emily L., et al. "The integrated stress response contributes to tRNA synthetase-associated peripheral neuropathy." *Science* 373.6559 (2021): 1156-1161.

Martin, Paige B., et al. "Clinically relevant mouse models of Charcot–Marie–Tooth type 2S." *Human Molecular Genetics* 32.8 (2023): 1276-1288.

Tadenev, ALD, Hatton, CL, Pattavina, B, et al. "Two new mouse models of *Gjbl*-associated Charcot–Marie–Tooth disease type 1X." *J Peripher Nerv Syst.* (2023): 1-12. doi:10.1111/jns.12588

REFERENCES

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