

Mario Bertogliat

Medical Laboratory Scientist

👤 Profile

Recent University of Wisconsin-Madison graduate with over 3+ years of laboratory experience. Talented molecular biologist with expertise in genetics, genomics, and epigenetics. Looking to bring an outstanding work ethic, attention to detail, and excellent communication skills to your team.

📁 Employment History

Medical Laboratory Scientist at Vemuganti Labs, UW Hospital, Madison, WI

January 2017 — Present

Contributing to studies on post-stroke deregulation of 5-hydroxymethylcytosine and non-coding RNA. Daily work with DNA and RNA isolation, animal handling and surgery, tissue cutting, and immunohistochemistry.

Publications:

1. Epigenetic mechanisms of neurodegenerative diseases and acute brain injury (*Neurochemistry International*)
2. Inhibition of the Epigenetic Regulator REST Ameliorates Ischemic Brain Injury (*Molecular Neurobiology*)
3. Induction of DNA Hydroxymethylation Protects the Brain After Stroke (*Stroke*)
4. TET3 Regulates DNA Hydroxymethylation of Neuroprotective Genes Following Focal Ischemia (*Cerebral Blood Flow and Metabolism*)

Medical Laboratory Scientist at Golos Labs, Wisconsin National Primate Research Center, Madison, WI

March 2018 — Present

Contributing to studies on Zika virus pathophysiology, MRI, embryology, precision medicine/CRISPR, and stem cell application. Daily work with RNA and cytokine assay preparation and optimization, blood and urine processing, cell line maintenance, cellular reprogramming, and CRISPR/cas9 gene knockouts.

Medical Laboratory Scientist at Parr Labs, University of Minnesota-Twin Cities, Minneapolis, MN

May 2019 — September 2019

Contributed to studies on neuronal differentiation from induced pluripotent stem cells, 3D bioprinting of neurons into silicon micro-scaffolds, transplantation of scaffolds into spinal cord injury, and optogenetic and epidural stimulation for neuromodulation. Daily work with cell line maintenance and differentiation, cellular transfection with AAV, animal handling and surgery, tissue cutting, immunocyto/immunohistochemistry, and microscopy.

Details

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Links

[LinkedIn](#)

Skills

Animal Behavior

Animal Surgery

Blood Processing

Cell Culture

CRISPR/cas9

Immunohistochemistry

Laboratory Maintenance

Laboratory Safety

Literature Review

Microscopy

Microtome/Cryotome

Nucleic Acid Isolation

Polymerase Chain Reaction

Education

B.S., University of Wisconsin-Madison, Madison, WI

September 2016 — May 2020

Genetics & Genomics, Stem Cell Science- 3.863 GPA

Extra-curricular activities

Chi Psi Fraternity, Alpha Iota Chapter, Madison, WI

February 2017 — Present

Undergraduate Genetics Association, Madison, WI

September 2016 — Present

UW Health Volunteer, Madison, WI

June 2018 — May 2019

Varsity Hockey Captain, Minnetonka, MN

March 2015 — March 2016

References

Raghu Vemuganti from Vemuganti Labs

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