

Viet Dinh, MS

PhD Candidate

Cerebral & Cardiovascular Physiology Laboratory | PI: Caroline Rickards, PhD, FAPS
Department of Physiology and Anatomy | School of Biomedical Sciences
The University of North Texas Health Science Center at Fort Worth
3500 Camp Bowie Boulevard, Fort Worth, TX 76107
Email: vietdinh@my.unthsc.edu
Phone: (817) 879-1975
Twitter: @vietdinhsci

Education

2022 – 2026
(EXPECTED)

The University of North Texas Health Science Center at Fort Worth
PhD in Biomedical Sciences | Integrative Physiology
PI: Caroline Rickards, PhD, FAPS

2020 – 2022

The University of North Texas Health Science Center at Fort Worth
MS in Biomedical Sciences | Integrative Physiology
PI: Keisa Mathis, PhD, FAHA

2015 – 2019

Texas Christian University
BS in Biology | Minor in Chemistry
Cum Laude; University Honors

Research Experience

2022 – PRESENT

Doctoral Research

Project: “Pulsatile Perfusion Therapy: A Novel Treatment to Improve Survival from Hemorrhage”

PI: Caroline Rickards, PhD, FAPS

Department of Physiology and Anatomy

The University of North Texas Health Science Center at Fort Worth

Skills developing: Human model research and experience, transcranial Doppler ultrasound, duplex Doppler ultrasound, near-infrared spectroscopy (NIRS).

2020 – 2022

Master’s Research

Thesis: “The Impact of Travel Stressors on the Pathogenesis of Autoimmunity in Female Lupus Mice” | Defended with Distinction

PI: Keisa Mathis, PhD, FAHA

Department of Physiology and Anatomy

The University of North Texas Health Science Center at Fort Worth

Skills developed: Rodent model research and experience, rodent surgeries, enzyme-linked immunosorbent assay (ELISA), glomerular filtration rate (GFR) analysis, GraphPad Prism, LabChart, Microsoft 365.

Publications

1. Davis KA, Bhuiyan N, McIntyre BJ, **Dinh VQ**, Rickards CA. Induced Blood Flow Oscillations at 0.1 Hz Protects Oxygenation of Severely Ischemic Tissue in Humans. (*In Revision*).
2. Shimoura CG, Young-Stubbs CM, Chaudhari S, **Dinh VQ**, Mathis KW. Targeted stimulation of the vagus nerve reduces renal injury in female mice with systemic lupus erythematosus. *Autonomic Neuroscience: Basic and Clinical* 2023, <https://doi.org/10.1016/j.autneu.2023.103129>
3. Chaudhari S, Pham GS, Brooks CD, **Dinh VQ**, Young-Stubbs CM, Shimoura CG, Mathis KW. Should Renal Inflammation Be Targeted While Treating Hypertension? *Frontiers in Physiology*, 2022 Jun 13;13:886779. doi: 10.3389/fphys.2022.886779. PMID: 35770194; PMCID: PMC9236225.

Abstracts & Presentations

2024

Dinh VQ, Farmer GE, Rickards CA. Pulsatile perfusion therapy at 0.1 Hz improves survival following severe hemorrhage in rats.

Robert J. Hardin Translational Cardiovascular Research Symposium, Poster Presentation
The University of North Texas Health Science Center at Fort Worth

Moody AW, Davis KA, **Dinh VQ**, Hudson L, Rickards CA. Protection of Cerebral Tissue Oxygenation with Induced 0.1 Hz Hemodynamic Oscillations During Simulated Hemorrhage in Humans

Summer Undergraduate Research Internship Program Research Appreciation Day, Poster Presentation

The University of North Texas Health Science Center at Fort Worth

Dinh VQ, Farmer GE, Rickards CA. Pulsatile perfusion therapy at 0.1 Hz improves survival following severe hemorrhage in rats.

American Physiology Summit, Poster Presentation
Long Beach, CA

Mathis KM, **Dinh VQ**, Chaudhari SK, Young-Stubbs CM. Low intensity renal ultrasound exposure reduces systemic inflammation induced by LPS challenge in mice.

American Physiology Summit, Poster Presentation
Long Beach, CA

Chaudhari SK, Young-Stubbs CM, **Dinh VQ**, Mathis KM. Galantamine reduces blood pressure and renal injury in female angiotensin II-induced hypertensive mice.

American Physiology Summit, Poster Presentation
Long Beach, CA

Dinh VQ, Farmer GE, Rickards CA. Pulsatile perfusion therapy at 0.1 Hz improves survival following severe hemorrhage in rats.

Research Appreciation Day, Oral Presentation

The University of North Texas Health Science Center at Fort Worth

Dinh VQ, Farmer GE, Rickards CA. Pulsatile perfusion therapy at 0.1 Hz improves carotid blood flow following severe hemorrhage in female rats.

- Women's Cardiovascular and Brain Health Symposium, Poster Presentation
The University of North Texas Health Science Center at Fort Worth
- 2023 **Dinh VQ**, Chaudhari S, Shimoura CG, Young-Stubbs CM, Mathis KW. Seasonal travel stressors impact the development of hypertension in female lupus mice.
American Physiology Summit, Poster Presentation
Long Beach, CA
- Dinh VQ**, Chaudhari S, Shimoura CG, Young-Stubbs CM, Mathis KW. Seasonal Travel Stressors Modulate Hypertension in Adult Female Lupus Mice.
Conference 4 Black Physiologists, Oral & Poster Presentation
- Dinh VQ**, Chaudhari S, Young-Stubbs CM, Shimoura CG, Tucker S, Essajee S, Warne C, Luedtke R, Mathis KW. Effect of Sigma-1 Receptor Activation on Renal Injury and Hypertension in Female Mice with Lupus.
Research Appreciation Day, Poster Presentation
The University of North Texas Health Science Center at Fort Worth
- Dinh VQ**, Mathis KW. Seasonal travel stressors impact the development of hypertension in female lupus mice.
Women's Cardiovascular and Brain Health Symposium, Poster Presentation
The University of North Texas Health Science Center at Fort Worth
- 2022 **Dinh VQ**, Mathis KW. Seasonal Travel Stressors Modulates Hypertension in Adult Female Lupus Mice.
Graduate Student Cardiovascular Renal Research Symposium, Oral & Poster Presentation
University of Mississippi Medical Center
- Dinh VQ**, Chaudhari S, Shimoura CG, Young-Stubbs CM, Mathis KW. Seasonal Travel Stressors Modulates Hypertension in Adult Female Lupus Mice.
American Heart Association's Hypertension Scientific Sessions, Oral Presentation
San Diego, CA
- Dinh VQ**, Mathis KW. Travel-Induced Stress at Varying Ages Modulates the Pathogenesis of Autoimmunity in Female Lupus Mice.
Research Appreciation Day, Oral Presentation
The University of North Texas Health Science Center at Fort Worth

Awards & Honors

- 2024 **Student Award for Outstanding Service**, The University of North Texas Health Science Center at Fort Worth
Student Association of Biomedical Sciences Travel Award (\$600), The University of North Texas Health Science Center at Fort Worth
- 2023 **Water and Electrolyte Homeostasis Section Abstract of Distinction**, American Physiology Summit
Student Association of Biomedical Sciences Travel Award (\$600), The University of North Texas Health Science Center at Fort Worth
2nd Place Poster Presentation, Research Appreciation Day, The University of North Texas

Health Science Center at Fort Worth

1st Place Poster Presentation, Women’s Cardiovascular and Brain Health Symposium, The University of North Texas Health Science Center at Fort Worth

2022

Graduate Student Cardiovascular Renal Research Symposium Travel Award (\$750), University of Mississippi Medical Center

Hypertension New Investigator Travel Grant (\$750), American Heart Association’s Hypertension Scientific Sessions

Student Association of Biomedical Sciences Travel Award (\$600), The University of North Texas Health Science Center at Fort Worth

Yorio Travel Award (\$1000), The University of North Texas Health Science Center at Fort Worth

1st Place Oral Presentation, Research Appreciation Day, The University of North Texas Health Science Center at Fort Worth

2nd Place Three Minute Thesis, Integrative Physiology, The University of North Texas Health Science Center at Fort Worth

2021

3rd Place Three Minute Thesis, Integrative Physiology, The University of North Texas Health Science Center at Fort Worth

2015

Chancellor’s Scholar Award (full tuition scholarship), Texas Christian University

Service Activities & Positions

2024

WEH Data Diuresis Committee

Water & Electrolyte Homeostasis Section
American Physiological Society

2023 – 2024

Student Ambassador

The University of North Texas Health Science Center at Fort Worth

2023 – 2024

Student Association of Biomedical Sciences

Integrative Physiology Discipline Representative
The University of North Texas Health Science Center at Fort Worth

2022 – 2024

PHANatics Physiology and Anatomy Student Organization

President: 2023 – 2024

The University of North Texas Health Science Center at Fort Worth

2022 – PRESENT

School of Biomedical Sciences Values Committee

Vice Chair: 2023 – PRESENT

The University of North Texas Health Science Center at Fort Worth

2022 – PRESENT

Graduate Teaching Assistant

The University of North Texas Health Science Center at Fort Worth

2021 – 2023

Physiology Understanding (PhUn) Tours

Professional Affiliations

2024 – PRESENT **Cerebrovascular Research Network (CARNet)**

2022 – PRESENT **American Heart Association**
Council on Hypertension

American Physiological Society
Environmental & Exercise Physiology Section