

Wesley Tierney

wtierney@asu.edu

Education

- 2018 - Arizona State University
PhD., Neuroscience. Anticipated
Completion 2024
- 2016 – 2018 California State University, Northridge
Master of Science Degree in Biology.

Teaching Experience

Classroom Experience

- 2018 - Teaching Assistant, Arizona State University
Courses: Cell Biology, Genetics, Conceptual Approaches for Biology
Majors I Lab
- 2016 – 2018 Teaching Assistant, California State University, Northridge
Courses: Cell Biology Lab, Genetics, Cell Biology, Introduction to
Biology, Anatomy and Physiology Lab

Stand-alone Lectures

- 2021 Lecturer, California Lutheran University
Lecture: “The World of Neuroscience: From Single Neurons to Human
Behaviors”

Mentoring Experience

- 2022 – Present New graduate student research, Michaella
Hernandez
- 2021 – Present Undergraduate student Researcher, Kayla Borg
- 2020 – 2020 New graduate student, Antonio (Rohan) Bando
- 2019 – 2020 Undergraduate student researcher, Nick Narcy
- 2019 – 2019 Undergraduate student researcher, Gabrielle Kizeev
- 2016 – 2018 Undergraduate student researcher, Bianca Ortega
- 2016 – 2018 Undergraduate student researcher, Aaron Lemus

Research Experience

- 2018 - Graduate Student Researcher: Arizona State University (Dr. Ian Hogue).
Neurovirology and Herpes Simplex Virus
- 2015 – 2018 Graduate Student Researcher: California State University, Northridge (Dr.
Randy Cohen). Neuroscience and Regenerative Medicine

Peer Reviewed Papers

Beladi, R. N., Varkoly, K. S., Schutz, L., Zhang, L., Yaron, J. R., Guo, Q., Burgin, M., Hogue, I.,

Tierney, W., Dobrowski, W., & Lucas, A. R. (2021). Serine Proteases and Chemokines in Neurotrauma; New Targets for Immune Modulating Therapeutics in Spinal Cord Injury. *Current Neuropharmacology*.

Wesley M. Tierney, Toni L. Uhlendorf, Aaron J.J. Lemus, Bianca A. Ortega, Jesse Magaña, Jessica Ochoa, William Van Trigt, Angelica Cruz, Alex Kopyov, Oleg V. Kopyov, Randy W. Cohen (2020). “Transplanted Human Neural Progenitor Cells Attenuate Motor Dysfunction and Lengthen Longevity in a Rat Model of Ataxia”, *Cell Transplantation*

Ruslan L. Nuryyev, Toni L. Uhlendorf, **Wesley Tierney**, Suren Zatikyan, Oleg Kopyov, Alex Kopyov, Jessica Ochoa, William Van Trigt, Cindy S. Malone, and Randy W. Cohen. (2017) “Transplantation of Human Neural Progenitor Cells Reveals Structural and Functional Improvements in the Spastic Han-Wistar Rat Model of Ataxia”, *Cell Transplantation* 26(11), 1811 – 1821.

Book Chapters

Tierney, W. M., Vicino, I. A., Sun, S. Y., Chiu, W., Engel, E. A., Taylor, M. P., & Hogue, I. B. (2022). Methods and applications of campenot trichamber neuronal cultures for the study of neuroinvasive viruses. In *Axonal Transport* (pp. 181-206). Humana, New York, NY.

Wesley M. Tierney, Aaron J. J. Lemus, Crystal T. Lao, Bianca A. Ortega, Michelle Olmos, Jacqueline Saenz, Toni L. Uhlendorf and Randy W. Cohen (2019). “Why aren’t there more genetic rat models of neurological diseases?”, In Antoieta Maria Avarado Munoz and Ana Isabel Rocha Faustino (Eds.) *Rattus norvegicus - A Review and Directions for Research*, (pp

Menaga Shanmugam, **Wesley Tierney**, Rebecca Hernandez, Angelica Cruz, Toni Uhlendorf, and Randy Cohen (2017). “Biochemical mechanisms associated with exercise-induced neuroprotection in aging brains and related neurological diseases”, In Ronald Ross Watson (Ed.) *Physical Activity and the Aging Brain*, (pp 85-93).

Conference Presentations

Wesley Tierney, Kayla Borg, and Dr. Ian Hogue (2022, April). Wrangling Synapses to Catch Some Virus. American Society for Microbiology, Southwest Branch Meeting 2022.

Wesley Tierney, Kayla Borg, and Dr. Ian Hogue (2022, April). Wrangling Synapses to Catch Some Virus. Biodesign Fusion 2022.

Wesley Tierney, Dr. Daisuke Inoue, and Dr. Ian Hogue (2019, November). Examining Neuronal Viral Exocytosis on A Nanoarray Combining NAPPA and PS-Beads-Based Nano-patterning Method. BioSci Southwest Symposium 2019.

Wesley Tierney, Dr. Daisuke Inoue, and Dr. Ian Hogue (2019, October). Examining Neuronal Viral Exocytosis on A Nanoarray Combining NAPPA and PS-Beads-Based Nano-patterning Method. Cedar Sinai 2019 Southern California Graduate Student Symposium. Los Angeles. CA.

W.M. Tierney, B. Ortega, A. Lemus, T. Uhlendorf, J. Ochoa, W. Van Trigt, A. Kopyov, O. V. Kopyov, R. Cohen (2018, November). Human neural progenitor cells reverse symptoms

and extend longevity in a rat model of ataxia. Society for Neuroscience Conference 2018.
San Diego, CA.

W.M. Tierney, B. Ortega, A. Lemus, T. Uhlendorf, J. Ochoa, W. Van Trigt, A. Kopyov, O. V. Kopyov, R. Cohen (2018, October). Human neural progenitor cells reverse symptoms and extend longevity in a rat model of ataxia. Arizona Physiological Society 2018.
Tempe, AZ.

Tierney, W and Cohen, R (2015, November). A Selective Sweet Tooth: The Effects of Various Injected Monosaccharides on the Dietary Selection of *Rhyarobia maderae*. Entomology Society of American Annual Meeting 2015, Minneapolis, MN.

Honors and Awards

Arizona State University

Tied for Best Overall Graduate Poster Presentation at BioSci Southwest Symposium
2019

California State University, Northridge

2018 Recipient of Donald Bianchi Outstanding Graduate Research Award

Sigma XI: Science Honor Society

Sigma XI: Science Honor Society 2nd Place Presentation at Sigma XI's CSUN
Symposium 2018

Sigma XI: Science Honor Society 2nd Place Presentation at Sigma XI's CSUN
Symposium 2015

Psi Chi: Psychology Honors Society

Affiliations

Society for Neuroscience

Sigma XI

Professional Activities

2018 - Present Grant reviewer for Arizona State Universities' Graduate and Professional

Student Organization (GPSA)

2018 – 2020 The Global STEM Alliance of The New York Academy of Sciences Stem U

Mentor

