Wesley Tierney
wtierney@asu.edu

**Education**

| Year       | Institution                                      | Degree/Courses/Field                          |
|------------|--------------------------------------------------|-----------------------------------------------|
| 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**

| Year       | Role/Institution/Location                        | Courses/Lab                                    |
|------------|--------------------------------------------------|------------------------------------------------|
| 2018 -     | Teaching Assistant, Arizona State University     | Cell Biology, Genetics, Conceptual Approaches for Biology |
|            | Majors I Lab                                     |                                                |
| 2016 – 2018| Teaching Assistant, California State University, Northridge | Cell Biology Lab, Genetics, Cell Biology, Introduction to Biology, Anatomy and Physiology Lab |

**Stand-alone Lectures**

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

**Mentoring Experience**

| Year     | Role/Institution            | Researcher/Student Name                      |
|----------|----------------------------|----------------------------------------------|
| 2022 – Present | New graduate student researcher, Michaella Hernandez |                     |
| 2021 – Present | Undergraduate student researcher, Kayla Borg |                               |
| 2020 – 2020 | New graduate student, Antonio (Rohan) Bandoo |                              |
| 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**

| Year       | Role/Institution                                      | Field/Project/Title                          |
|------------|-------------------------------------------------------|---------------------------------------------|
| 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 Antoietta 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 Nanopatterning 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 Nanopatterning 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 Rhyparobia 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
