Jordan Taylor Moore

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EDUCATION

The Ohio State University

Ph.D. Biomedical Engineering	2020-2022
M.S. Biomedical Engineering	2018-2020
B.S. Applied Mathematics	2012-2015

AWARDS

1st place graduate student poster (EHIRS 2020) Chronic Brain Injury Travel Award (OSU CBI 2019) Chronic Brain Injury Travel Award (OSU CBI 2018)

RELATED EXPERIENCE

The Ohio State University (OSU), Columbus, Ohio

Graduate Research Associate, Dr. Daniel Gallego-Perez Lab	08/2018 - Present
Neuroscience Scholars Program Associate	08/2020 - 05/2022
Peer Mentorship Program, Office of Graduate Education	08/2020 - 05/2021
Graduate Teaching Assistant, Dept. of Biomedical Engineering	08/2018 - 05/2019
Research Assistant 2 B/H, Dr. Daniel Gallego-Perez Lab	10/2017 - 07/2018
Research Assistant 1 B/H, Dr. Daniel Gallego-Perez Lab	12/2016 - 10/2017

The Ohio State University (OSU), Columbus, Ohio

Graduate Research Associate, Dr. Daniel Gallego-Perez Lab 08/2018 - Present

- Designed and performed experiments applying nanoscale tissue nano-transfection to nerve injury/repair applications and other neurodegenerative conditions
- Performed cell culture experiments to investigate cellular reprogramming capabilities
- Worked with my advisor to perform peer-review of manuscripts for journals
- Performed literature reviews and helped write grants for DoD and NIH applications

The Ohio State University (OSU), Columbus, Ohio

Peer Mentorship Program, Office of Graduate Education 08/2020 - 05/2021

- Assisted incoming graduate students in transitioning to graduate school and the new environment
- Mentored two first-year Ph.D. students: one biomedical engineering and one materials science engineering student

The Ohio State University (OSU), Columbus, Ohio

Graduate Teaching Assistant, Dept. of Biomedical Engineering 08/2018 - 05/2019

- Guided students through introductory labs of biomechanics, cell/tissue engineering, and imaging
- Performed demonstrations in a cleanroom facility for photolithography
- Created guiz guestions over lecture material
- · Created rubrics and graded assignments

The Ohio State University (OSU), Columbus, Ohio

Research Assistant, Laboratory Manager, Dr. Daniel Gallego-Perez Lab 12/2016 - 12/2018

- Performed in vivo transfections and assisted with tissue collection of rodents
- Performed immunohistochemistry (ICC, IF, DAB)
- Performed RNA and DNA isolation, cDNA synthesis, and qRT-PCR
- Assisted with electrophysiology measurements of rodents
- Worked with adherent cell cultures

The Ohio State University (OSU), Columbus, Ohio

Volunteer Research Assistant, Dr. Daniel Gallego-Perez Lab 11/2015 - 12/2016 Major Topics:

Non-Viral Gene Delivery to Peripheral Nerve through a Nanostructured Chip Platform

The Ohio State University (OSU), Columbus, Ohio

Research Assistant 1 B/H, Laboratory Manager, Laser-Capture Molecular (LCM) Core Lab 05/2015 - 12/2016

- Managed the Laser Capture Molecular Core facility that currently houses two state-ofthe-art laser capture microdissection instruments
- Managed and coordinated facility operational budgets and fiscal forecasting analyzed and reconciled financial reports
- Presented facility growth, financial activities and fiscal projection in the monthly advisory meetings
- Managed one staff, multiple students, and supervised facility users
- Involved in hiring, coaching and mentoring staffs
- Coordinated research projects with several principal investigators (PIs) within OSU
- Implemented a new inventory management system

PROFICIENT LABORATORY SKILLS

- Mammalian cell culture: established and primary cell lines.
- Protein: immunohistochemistry, immunocytochemistry.
- RNA: isolation from tissue and cells/exosomes, cDNA preparation, qPCR analysis.
- DNA: PCR
- Microscopy: wide-field and confocal fluorescent, bright-field imaging, laser capture microdissection, SEM, and TEM.
- Muscle physiology: compound muscle action potential (CMAP), muscle force.

PUBLICATIONS

- J. Moore, C. Wier, L. Lemmerman, L. Ortega-Pineda, D. Dodd, W. Lawrence, et al. "Nanochannel-Based Poration Drives Benign and Effective Nonviral Gene Delivery to Peripheral Nerve Tissue". Advanced Biosystems (2020, paper)
- V. Shukla, S. Duarte-Sanmiguel, A. Panic, A. Senthilvelan, J. Moore, C. Bobba, et al. "Reciprocal Signaling between Myeloid Derived Suppressor and Tumor Cells Enhances Cellular Motility and is Mediated by Structural Cues in the Microenvironment". Advanced Biosystems (2020, paper)
- L. Diaz-Starokozheva, D. Das, X. Gu, J. Moore, L. Lemmerman, I. Valerio, et al. "Early Intervention in Ischemic Tissue with Oxygen Nanocarriers Enables Successful Implementation of Restorative Cell Therapies". Cellular and Molecular Bioengineering (2020, paper)
- S. Duarte-Sanmiguel, V. Shukla, B. Benner, J.Moore, L. Lemmerman, W. Lawrence, et al. "Guided migration analyses at the single-clone level uncover cellular targets of interest in tumor-associated myeloid-derived suppressor cell populations". Scientific Reports (2020, paper)
- J.Moore, D. Alzate-Correa, D. Dasgupta, W. Lawrence, D. Dodd, C. Mathews, et al. "Nanoengineered exosomes drive targeted delivery of reprogramming genes to nerve tissue". Nanothechnology and Microfluidics Published online December 27, 2019 (chapter) N. Higuita-Castro, L. Lemmerman, A. Sunyecz, S. Duarte-Sanmiguel, ..., J.Moore, ..., et al. "Nanoengineered exosomes drive targeted delivery of reprogramming genes to nerve tissue". Society for Neuroscience, Chicago, Illinois, USA October 19-23 2019 (abstract) J. Moore, N. Higuita-Castro, C. Wier, S. Kolb, I. Valerio, D. Gallego-Perez. "Tissue nanotransfection drives localized delivery of therapeutics to the peripheral or central nervous system in a minimally invasive manner". Society for Neuroscience, Chicago, Illinois, USA

October 19-23 2019 (abstract)

- **J. Moore**, N. Higuita-Castro, C. Wier, D. Gallego-Perez. "In vivo non-viral delivery of gene and cell therapies to peripheral and central nervous system". Society for Neuroscience, San Diego, California, USA November 3-7 2018 (abstract)
- D. Gallego-Perez, D. Pal, S. Ghatak, V. Malkoc, N. Higuita-Castro, ..., **J. Moore**, ..., et al. "**Topical tissue nano- transfection mediates non-viral stroma reprogramming and rescue**" Nat. Nanotechnol. (2017), <u>10.1038/nnano.2017.134</u> Published online August 7, 2017 (paper)

CONFERENCES AND PRESENTATIONS

- **J. Moore**, N. Higuita-Castro, C. Wier, S. Kolb, I. Valerio, D. Gallego-Perez. "Tissue nanotransfection promotes localized delivery of therapeutics to the peripheral and/or central nervous system via minimally invasive methods". Podium Presentation at the 5th Annual Engineering in Healthcare: Industry and Research Symposium, Columbus, Ohio, USA February 14, 2020
- **J. Moore**, N. Higuita-Castro, C. Wier, S. Kolb, I. Valerio, D. Gallego-Perez. "Tissue nanotransfection promotes localized delivery of therapeutics to the peripheral and/or central nervous system via minimally invasive methods". Tissue Engineering Regenerative Medicine International Society, Orlando, Florida, USA December 2-5 2019
- **J. Moore,** Natalia Higuita-Castro, Maria Balch, Hallie N. Harris, William Lawrence, Richard Stewart, Alec Sunyecz, Chandan K. Sen, Savita Khanna, Cameron Rink, Daniel Gallego-Perez. "Nano-reprogrammed Cell Intervention Targets Brain Injury Recovery". Podium Presentation at 13th Annual Davis Heart and Lung Research Day, Columbus (OH), USA, March 2018
- N. Higuita-Castro, C. Wier, **J. Moore**, A. Sunyecz, C. Sen, J. Otero, S. Kolb, D. Gallego-Perez. "Novel Non-Viral Approaches for Gene Delivery to Peripheral Nerves". Poster Presentation at Target Nucleic Acid Detection & Delivery, South Bend (IN), USA, July 2018 N. Higuita-Castro, C. Wier, **J. Moore**, A. Sunyecz, C. Sen, J. Otero, S. Kolb, D. Gallego-Perez. "Novel Non-Viral Approaches for Gene Delivery to Peripheral Nerves". Podium Presentation at 3rd Annual Engineering in Healthcare: Industry and Research Symposium, Columbus (OH), USA, March 2018
- N. Higuita-Castro, C. Wier, **J. Moore**, A. Sunyecz, C. Sen, J. Otero, S. Kolb, D. Gallego-Perez. "Non-Viral Gene Delivery to Peripheral Nerve through a Nanostructured Chip Platform". Poster Presented at Biomedical Engineering Society Meeting, Minneapolis (MN), USA, October 2016.