

# Laura Segura Moye

laurasmoye@gmail.com

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**Neuroscientist with over 6 years' experience in experimental design, project management, and data analysis.**

*Scientific Experience* **Neuroscience PhD Candidate | *University of Illinois*** June 2014-May 2019

- Lead investigator who developed, behaviorally characterized, and pharmacologically validated a preclinical mouse model of mild traumatic brain injury-induced migraine.
- Identified the delta opioid receptor (DOR) as a promising drug target for headache disorders by testing the effectiveness of DOR activation on pain using behavioral assays.
- Characterized the interplay between the DOR, calcitonin gene-related peptide (CGRP), and the CGRP receptor in the regulation of migraine-associated pain via gene and protein expression analyses.
- Received independent funding from a Diversity Research Supplement, adding up to \$43,931/year, which allowed the lab to take on another graduate student; Provost Deiss Research Award, adding up to \$1,252, which funded travel to a collaborating lab to learn surgical techniques; and the Promoting Success in STEM Graduate Education (PASSAGE) scholarship, which paid for lodging and a summer stipend to begin research the summer before graduate school.

**Innovation Fellow | *Neurolex Labs*** May 2018-Nov 2018

- One of 30 scientists selected to develop pilot programs that use speech analytics to better diagnose disease.

**Biotech Research Analyst Intern | *Aspire Capital, LLC*** Aug 2017-Apr 2018

- One of 3 scientists selected to research top drug candidates from 5 microcap pharmaceutical companies, evaluate companies' stock market performance, and provide consultation on overall investment potential.

**BP-ENDURE Research Fellow | *National Institute of Health*** May 2012-May 2014

- Selected as one of 40 participants nationwide for a funded 2-year research fellowship for high-achieving diverse talent based on leadership, academic success, and scientific potential.

*Education* **PhD, Neuroscience | *University of Illinois at Chicago, IL*** June 2014-May 2019

- Dissertation: The delta opioid receptor is an emerging pharmacotherapy for headache disorders.
- Relevant Courses/Education: Drug Discovery, Statistics, SAS Workshop, Biostatistics (SAS), Bioinformatics Workshop (Linux, R, RNASeq Analysis)

**BS, Neuroscience, Spanish | *Agnes Scott College, GA*** Aug 2011-May 2014

*Public Service*

**Collective Board Member | Project Fierce Chicago**

June 2017-Present

- Collectively fundraised over \$160,000 in FY2017 (124% increase from FY2016) to open transitional housing for Chicago-based LGBTQ+ homeless youth.
- Actively participated on the stewardship committee, where I assisted with grant writing; and on the marketing committee, where I managed social media accounts for ongoing fundraising events.

*Selected Awards*

Pat Tillman Foundation Scholar	2017
International Headache Academy	2017
National Enhancement of Underrepresented Academic Leaders Conference	2015
Headache Trainees Tournament Nominee	2016
Annual Biomedical Research Conference for Minority Students	2013
Dana Leadership Scholar	2013
Bridge to Business Scholar	2013

*Publications*

1. **LS Moyer**, ML Novack, AF Tipton, H Krishnan, SC Pandey, AA Pradhan. The development of a mouse model of mTBI-induced post-traumatic migraine, and identification of the delta opioid receptor as a novel therapeutic target. *Cephalalgia*. 2018 Jan.
2. M Ben Aissa, AF Tipton, Z Bertels, R Gandhi, **LS Moyer**, M Novack, BM Bennett, Y Wang, V Litosh, SH Lee, IN Gaisina, GR Thatcher, AA Pradhan. Soluble guanylyl cyclase is a critical regulator of migraine-associated pain. *Cephalalgia*. Jan 2017.
3. **LS Moyer**, AA Pradhan. Animal model of chronic migraine-associated pain. *Current Protocols in Neuroscience*. 2017 Jul.
4. **LS Moyer**, AA Pradhan. From blast to bench: A translational mini-review of posttraumatic headache. *Journal of Neuroscience Research*. 2017 Jun.
5. A Vicente-Sanchez, **L Segura**, AA Pradhan. The delta opioid receptor tool box. *Neuroscience*. 2016 Dec.
6. AA Pradhan, J Perroy, WM Walwyn, ML Smith, A Vicente-Sanchez, **L Segura**, A Bana, BL Kieffer, CJ Evans. Agonist-specific recruitment of arrestin isoforms differentially modify delta opioid receptor function. *Journal of Neuroscience*. 2016 March.
7. N Bartolotti, **L Segura**, O Lazarov. Diminished CRE-induced plasticity is linked to memory deficits in familial Alzheimer's disease mice. *Journal of Alzheimer's Disease*. 2016.

*Selected Presentations*

1. Identifying the role of peripheral delta opioid receptors in chronic migraine. International Narcotics Research Conference, Chicago, IL, 2017. Oral and poster presentations.
2. The delta opioid receptor as an emerging therapy for mTBI-induced headaches. Graduate Student Research Forum, Chicago, IL, 2017. Oral and poster presentations.
3. Characterization of a novel mouse model of post-traumatic headache. European Headache and Migraine Trust International Congress, Glasgow, UK, 2016. Oral and poster presentations.