

# SADIE ELIZABETH NENNIG

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## EDUCATION

- University of Georgia, Athens, GA** September 2019  
*Doctor of Philosophy*, Doctoral Candidate in the Biomedical Health Sciences Institute (BHSI) Interdisciplinary Neuroscience PhD Program, GPA: 3.95/4.0
- Emory University, Atlanta, GA** May 2014  
*Bachelor of Science*, Neuroscience and Behavioral Biology, GPA: 3.417/4.0
- Marquette University, Milwaukee, WI** May 2012 - August 2012  
Organic Chemistry I/II, GPA: 3.00/4.0

## RESEARCH EXPERIENCE

- University of Georgia, Athens, GA** January 2015 - Present  
*Graduate Research Assistant under Dr. Jesse Schank, College of Veterinary Medicine, Department of Physiology & Pharmacology*  
Investigating the relationship between alcoholism, depression, and neuroinflammation. Techniques used include intracranial cannulation, intracranial drug infusion, conditioned place preference, social defeat stress, self-administration, 2-bottle choice, elevated plus maze, sucrose preference, immunohistochemistry, immunofluorescence, confocal imaging, real-time qPCR, and estrous cycle monitoring.
- Rollins School of Public Health, Emory University, Atlanta, GA** August 2013 - May 2014  
*Undergraduate Research Assistant under Dr. Michael Caudle, Rollins School of Public Health, Department of Environmental Health*  
Examined the effects of environmental toxin and pesticide exposure on development of disorders such as Parkinson's Disease, Attention-Deficit/Hyperactivity Disorder, and Autism. Molecular techniques used include Western blots.
- Marquette University, Milwaukee, WI** May 2013 - August 2013  
*Undergraduate Research Assistant under Dr. M. Behnam Ghasemzadeh, Department of Biomedical Sciences*  
Assessed the effects of metabotropic glutamate receptors on cocaine addiction and schizophrenia. Behavioral techniques used include cocaine self-administration and T-maze.

## GRANT SUPPORT

- National Institutes of Health (NIH) National Research Service Award (NRSA) for Predoctoral Fellows (F31)** 9/1/17 -  
Title: "NFkB: A critical link between alcohol abuse and stress-sensitivity"; currently on year 2 of NIH support.

## PUBLICATIONS

- Fulenwider, H.D., **Nennig S.E.**, Hafeez, H., Price M.E., Pravetoni M., Baruffaldi F., Manvich D.F., & Schank J.R. Sex differences in oral oxycodone self-administration and stress-primed reinstatement in rats. *Addiction Biology*.
- Nelson, B.S., Fulenwider, H.D., **Nennig, S.E.**, Smith, B.M., Sequeira, M.K., Chimberoff, S.H., Bohannon, J.B., Richie, C., Cheng, K., Rice, K.C., Harvey, B., Heilig, M., & Schank, J.R. Neurokinin-1 receptor in the central amygdala mediates escalated alcohol self-administration and sensitivity to yohimbine-induced reinstatement. *Neuroscience*.
- Fulenwider, H.D., **Nennig, S.E.**, Price, M.E., Schank, J.R. (2019) Sex differences in aversion-resistant ethanol intake in mice. *Alcohol and Alcoholism*.
- Fulenwider H.D., Smith B.M., Nichenko A.S., Carpenter J.M., **Nennig S.E.**, Rice K.C., & Schank J.R. (2018) Cellular and behavioral actions of lipopolysaccharide are dependent on neurokinin-1 receptor activation. *Journal of Neuroinflammation*, 15(1):60.
- Sequeira, M.K., Nelson, B.S., Fulenwider, H.D., King, C.E., **Nennig, S.E.**, Bohannon, J.B., Cheng, K., Rice, K.C., Heilig, M., & Schank, J.R. (2018). The neurokinin-1 receptor mediates escalated alcohol intake induced by multiple drinking models. *Neuropharmacology*, 137:194-201

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## PUBLICATIONS (continued)

6. **Nennig, S.E.**, Fulenwider, H.D., Chimberoff, S.H. Smith, B.M., Eskew, J.E., Sequeira, M.K., Karlsson, C., Liang, C., Chen, J., Heilig, M., & Schank, J.R. (2017). Selective lesioning of nuclear factor kB activated cells in the nucleus accumbens shell attenuates alcohol place preference. *Neuropsychopharmacology*, *43*(5):1032-1040.
7. **Nennig, S.E.** & J.R. Schank. (2017). The Role of NFkB in Drug Addiction: Beyond Inflammation. *Alcohol & Alcoholism*, *52* (2): 172-179.
8. Wilson, W.W., Onyenwe, W., Bradner, J.M., **Nennig, S.E.**, & Caudle, W.M. (2014). Environmental exposure to the organochlorine insecticide endosulfan alters expression of proteins associated with neurotransmission in the front cortex. *Synapse*, *11*: 485-497.

### Under Review:

Schank, J.R., Soojung L., Gonzalez-Islas, C.E., **Nennig, S.E.**, Fulenwider, H.D., Chang, J., Li, J.M., Kim, Y., Jeffers L.A., Chung, J., Lee, J.K., Aalkjaer, C., Boedtker, E., & Choi, I. Sodium bicarbonate transporter NBCn1 alters alcohol consumption and alcohol-induced behaviors in mice.

### In preparation/progress:

**Nennig, S.E.**, Fulenwider, H.D., Eskew, J.E. & Schank, J.R. The involvement of nuclear factor-kB in the increased sensitivity to social defeat stress following intermittent ethanol access and chronic alcohol exposure. *In preparation*.

**Nennig, S.E.**, Fulenwider, H.D., & Schank, J.R. Antagonism of the neurokinin-1 receptor prevents the decrease in social interaction behavior but not the increased alcohol consumption following chronic SDS. *In preparation*.

Fulenwider, H.D., **Nennig, S.E.**, & Schank, J.R. Recent findings on oxycodone abuse using preclinical animal models. *In preparation*.

**Nennig, S.E.**, Fulenwider, H.D., & Schank, J.R. Effects of the estrous cycle on responsivity to vicarious social defeat stress in female mice. *In progress*.

## POSTER PRESENTATIONS

**Nennig, S.E.**, Fulenwider, H.D., Eskew, J.E., & Schank, J.R. (2019). Multiple alcohol exposure models increase sensitivity to social defeat stress in mice. To be presented at Research Society on Alcoholism; Minneapolis, MN.

**Nennig, S.E.**, Fulenwider, H.D., Price, M.E., & Schank, J.R. (2019). Vicarious social defeat stress increases voluntary alcohol consumption in female mice. Integrated Life Sciences Program Recruitment; Athens, GA.

**Nennig, S.E.**, Fulenwider, H.D., Price, M.E., & Schank, J.R. (2018). Vicarious social defeat stress increases voluntary alcohol consumption in female mice. Research Society on Alcoholism Conference; San Diego, CA.

**Nennig, S.E.**, Fulenwider, H.D., Price, M.E., & Schank, J.R. (2018). Vicarious social defeat stress increases voluntary alcohol consumption in female mice. Gordon Research Seminar: Alcohol and the Nervous System, Galveston, TX.

**Nennig, S.E.**, Fulenwider, H.D., Price, M.E., & Schank, J.R. (2018). Vicarious social defeat stress increases voluntary alcohol consumption in female mice. Gordon Research Conference: Alcohol & the Nervous System, Galveston, TX.

**Nennig, S.E.**, Fulenwider, H.D., Chimberoff, S.H., Smith, B.M., Eskew, J.E., Sequeira, M.K., Karlsson, C., Liang, C., Chen, J., Heilig, M., & Schank, J.R. (2017). NFkB activity in the nucleus accumbens mediates alcohol place preference. Research Society on Alcoholism Conference; Denver, CO.

**Nennig, S.E.**, Smith, B.M., Chimberoff, S.H., Fulenwider, H.D., Schank, J.R. (2017). The Role of NF-kB in Alcohol Conditioned Place Preference. Integrated Life Sciences Program Recruitment; Athens, GA.

**Nennig, S.E.**, Smith, B.M., Chimberoff, S.H., Fulenwider, H.D., Schank, J.R. (2016). The Role of NF-kB in Alcohol Conditioned Place Preference. Research Society on Alcoholism Conference; New Orleans, LA.

**Nennig, S.E.**, Smith, B.M., Chimberoff, S.H., Fulenwider, H.D., Schank, J.R. (2016). The Role of NF-kB in Alcohol Conditioned Place Preference. Gordon Research Conference: Alcohol and the Nervous System; Galveston, TX.

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## ORAL PRESENTATIONS

<b>UGA Graduate Students and Postdocs in Science Research Day</b>	June 2019
Title: "The Role of NK1R in the bidirectional relationship between alcohol exposure and stress responsivity"	
*First place presentation out of the six selected oral presentations.	
<b>UGA Physiology and Pharmacology Department Seminar Series</b>	October 2018
Title: "The Role of NFkB and Cytokines in Alcohol-Related Responses and Social Stress"	
<b>UGA Interdisciplinary Neuroscience Program Seminar Series</b>	April 2018
Title: "NFkB in the nucleus accumbens mediates alcohol place preference"	
*Selected out of the Neuroscience PhD students to present in the program's seminar series.	
<b>Gordon Research Seminar: Alcohol and the Nervous System</b>	February 2018
Title: "NFkB in the nucleus accumbens mediates alcohol place preference"	
*Selected for one of 15 oral presentations given by postdoctoral fellows and graduate students.	
<b>UGA Physiology and Pharmacology Department Seminar Series</b>	April 2016
Title: "The Role of NFkB in Alcohol Conditioned Place Preference"	

## MEETINGS & COURSE ATTENDANCE

<b>Research Society on Alcoholism Conference (Minneapolis, MN)</b>	June 2019
<b>Research Society on Alcoholism Conference (San Diego, CA)</b>	June 2018
<b>Gordon Research Seminar: Alcohol and the Nervous System (Galveston, TX)</b>	March 2018
<b>Gordon Research Conference: Alcohol and the Nervous System (Galveston, TX)</b>	March 2018
<b>Cold Spring Harbor Laboratory Course: The Cellular Biology of Addiction (Cold Spring Harbor, NY)</b>	August 2017
<b>Research Society on Alcoholism Conference (Denver, CO)</b>	June 2017
<b>Research Society on Alcoholism Conference (New Orleans, LA)</b>	June 2016
<b>Gordon Research Conference: Alcohol and the Nervous System (Galveston, TX)</b>	February 2016

## AWARDS & HONORS

<b>Graduate Education Advancement Board (GEAB) Fellowship (\$2,500), University of Georgia</b>	July 2019
<b>RSA Conference Student Merit Award (\$350), to attend RSA conference</b>	April 2019
<b>Graduate School Travel Award (\$800), University of Georgia</b>	April 2019
<b>Graduate School Student Spotlight, University of Georgia</b>	February 2019
<b>Biomedical Health Sciences Institute Travel Award (\$1075), University of Georgia</b>	May 2018
<b>RSA Conference Student Merit Award (\$350), to attend RSA conference</b>	April 2018
<b>Gordon Research Seminar Travel Award (\$290), to attend and present at GRS</b>	March 2018
<b>National Institute on Drug Abuse Scholarship (\$1325), to attend CHSL Cellular Biology of Addiction Course</b>	June 2017
<b>Graduate School Travel Award (\$1700), University of Georgia</b>	March 2017
<b>RSA Conference Student Merit Award (\$300), to attend RSA conference</b>	April 2017
<b>Graduate School Travel Award (\$250), University of Georgia</b>	February 2015
<b>Postgraduate Scholarship Award Recipient (\$7,500), National Collegiate Athletic Association</b>	May 2014
<b>Scholar All-American, College Swim Coaches Association of America</b>	May 2013, 2014

## TEACHING EXPERIENCE

<b>Teaching Assistant</b> for Principles of Physiology II (VPHY 5112/7112), University of Georgia	January 2017 - May 2017
<b>Teaching Assistant</b> for Veterinary Neuroanatomy (VPHY 5190), University of Georgia	January 2017 - May 2017
<b>Teaching Assistant</b> for Principles of Physiology I (VPHY 5111/7111), University of Georgia	August 2016 - December 2016
<b>Teaching Assistant</b> for Principles of Physiology II (VPHY 5112/7112), University of Georgia	January 2016 - May 2016
<b>Teaching Assistant</b> for Veterinary Neuroanatomy (VPHY 5190), University of Georgia	August 2015 - December 2015
<b>Teaching Assistant</b> for Introduction to Neurobiology (NBB 301), Emory University	August 2013 - December 2013

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## CAMPUS & COMMUNITY ENGAGEMENT

### *At the University of Georgia:*

- Summer Undergraduate Research Experience in Neuroscience Mentor** May 2019 – July 2019  
Recruit, train, and mentor an exceptional neuroscience undergraduate student accepted into the Biomedical Health Sciences Institute's NSURE program.
- Neuroscience Graduate Student Association President** February 2018 – May 2019  
Establish a graduate student association in its inaugural year for the Neuroscience community at UGA.
- Graduate Students & Post-Docs in Science President** June 2016 – June 2018  
President for the 2017-2018 school year; oversee organization of 200+ graduate students and post-docs, plan annual Career Symposium and Research day events, facilitate social networking between departments across campus, contacting departments and institutes across campus to fundraise for the organization.
- Graduate Students & Post-Docs in Science Vice President** June 2015 - June 2016  
Oversaw executive board meetings and planned club events including an annual Research Day and Career Day symposium, assisted the president with their diverse duties throughout the school year.
- Graduate Students & Post-Docs in Science Community Service Chair** August 2014 - June 2015  
Orchestrated the association's Relay for Life team and fundraising for the event.
- Neuroscience for Kids Co-President** September 2014 - May 2015  
Planned and orchestrated weekly neuroscience lessons for local elementary students.
- Neuroscience for Kids Volunteer** September 2014 - Present  
Lead weekly neuroscience lessons for local elementary students throughout the semester.
- Young Dawgs Program Volunteer** September 2014 – May 2016  
Direct and plan research internship program for high school students alongside of program coordinator, interview potential program candidates, match applicants find a faculty member to work under, judge student presentations at the conclusion of their internship.
- Integrated Life Sciences (ILS) Program Liaison** March 2015 – Present  
Served as a program contact for prospective students admitted to ILS, assisted with questions regarding the program, graduate school, UGA, life in Athens, etc.
- Women in Science Volunteer** January 2016 - May 2016  
Mentored female undergraduate students in STEM majors interested in pursuing scientific careers.
- Experience UGA Volunteer** March 2018  
Orchestrated a science fair showcasing research at UGA for 250 local high school students.
- Graduate Student Association Volunteer** October 2016  
Mentored STEM high school students and provided insight on their year-long research project (design, data collection, analysis methods, etc.) that will be presented at state/national/international competitions.

### *Outside of the University of Georgia:*

- Pancreatic Cancer Action Network Purple Stride Team Captain, Milwaukee, Wisconsin** January 2018 – Present  
Lead a team of 65 walk participants and facilitate fundraising efforts for the annual Purple Stride 5K in honor of my dad who is currently fighting the disease. In 2018, raised \$5,000 in support of pancreatic cancer research, government advocacy, and support. In 2019, helped the team raise over \$6,000 for the cause.
- Georgia Junior Science & Humanities Symposium (JSHS), University of Georgia** January 2019  
Served as a judge for the JSHS symposium which provides high school students the opportunity to write a scientific paper and present their work in an academic/scientific conference setting.
- Emory Cares Event Coordinator, Emory University** September 2016 - November 2016  
Organized Emory Cares Day volunteer event for Emory alumni living in the Athens area.
- Undergraduate Orientation Leader, Emory University** August 2013 - October 2013  
Directed a group of students daily during Orientation Week and throughout their first semester on campus to acclimate them to life at Emory and as new college students.