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Integrative Physiology
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EDUCATION

Doctor of Philosophy **2019**
Integrative Physiology
Department of Physiology & Anatomy
University of North Texas Health Science Center
Fort Worth, TX, USA

Bachelor of Science **Class of 2015**
Biology
Texas A&M University
College Station, TX, USA

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant **2015-Present**
Integrative Physiology
Department of Physiology & Anatomy
University of North Texas Health Science Center, Ft. Worth, Texas

Graduate Teaching Assistant **2014-2015**
Department of Food Science and Nutrition
Texas A&M University

PUBLISHED MANUSCRIPTS

1. **Marciante AB**, Wang LA, Farmer GE, Cunningham JT. Selectively inhibiting the median preoptic nucleus attenuates angiotensin II and hyperosmotic-induced drinking behavior and vasopressin release in adult male rats. *eNeuro*, 6(2). March 2019.
2. Shell B, Farmer GE, Nedungadi TP, Wang LA, **Marciante AB**, Snyder B, Cunningham RL, Cunningham JT Angiotensin type 1a receptors in the median preoptic nucleus support intermittent hypoxia-induced hypertension. *AJP-Reg*. March 2019.
3. Nemeč M., Kim H., **Marciante AB.**, Barnes R., Hendrick E., Bisson W., Talcott S., Mertens-Talcott S. Polyphenolics from mango (*Mangifera Indica* L.) suppress breast cancer ductal carcinoma *in situ* proliferation through activation of AMPK pathway

and suppression of mTOR in athymic nude mice. *Journal of Nutr Biochem*. November 2016.

4. Nemec M., Kim H., **Marciante A.**, Barnes R., Talcott S., Mertens-Talcott S.; Pyrogallol, an absorbable microbial gallotannins-metabolite and mango polyphenols (*Mangifera Indica* L.) suppress breast cancer ductal carcinoma *in situ* proliferation *in vitro*. *Food Funct*. 2016 August; 7: 3825-3833.

ORAL PRESENTATIONS

NATIONAL

1. July 2018. International Congress for Neuroendocrinology. Toronto, Canada. "Role of the MnPO in regulation of ANG II-induced thirst." 3 Minute Thesis Presenter.

LOCAL

1. March 2019. Research Appreciation Day. "Caspase lesions of PVN-projecting MnPO neurons blocks CIH-induced hypertension in adult male rats."
2. February 2019. Gimme the GIST. "Using Caspase-3 to Selectively Trigger Cell-Autonomous Apoptosis".
3. May 2018. Neurobiology of Aging Annual Symposium. "Selective MnPO inhibition attenuates ANG II-induced drinking behavior and neuroendocrine function."

SCIENTIFIC POSTERS

NATIONAL

1. July 2018. International Congress for Neuroendocrinology. Toronto, Canada. "Selective MnPO inhibition attenuates ANG II-induced drinking behavior and neuroendocrine function."
2. April 2018. Experimental Biology. San Diego, CA. "DREADD-induced inhibition of the MnPO affects drinking behavior and neuroendocrine function in adult male rats."
3. April 2018. Experimental Biology, San Diego, CA. "AT1aR dependent GABA_R inhibition in the MnPO following chronic intermittent hypoxia." *Co-author*.
4. April 2017. Experimental Biology. Chicago, IL. "DREADD-induced cFos expression in the basal forebrain of male rats."

LOCAL

1. April 2016. Research Appreciation Day. "Role of chronic intermittent hypoxia and hypercapnia induced hypertension in regulation of blood pressure."
2. April 2017. Research Appreciation Day. "DREADD-induced cFos expression in the basal forebrain of male rats. Research Appreciation Day."
3. April 2018. Research Appreciation Day. "DREADD-Induced Inhibition of the MnPO Affects Drinking Behavior and Neuroendocrine Function in Adult Male Rats."

4. February 2019. Women's Cardiovascular and Brain Health Symposium. "Caspase lesions of PVN-projecting MnPO neurons blocks CIH-induced hypertension in adult male rats."
5. March 2019. Research Appreciation Day. "Contribution of K⁺/Cl⁻ Cotransporters in AT1aR-Dependent GABA_A Inhibition in the MnPO following Chronic Intermittent Hypoxia." *Co-author.*

TEACHING

1. 2018-2019 Peer-to-Peer mentoring for Qualifying Examination preparation for junior PhD students.
2. Summer 2018. Instructor, Pre-Matriculation Physician Assistant Physiology Course. 20 hrs/week, 6 weeks preparation & 1 week teaching.
3. Summer 2018. Instructor, Joint Admission Medical Program (JAMP). 4 hrs/week, 2 weeks.
4. Spring 2018. Medical Sciences Physiology Tutor, BMSC 5304: Physiology. 4 hrs/week, 4 weeks.
5. Fall 2017. Instructor, Physiology Understanding (PhUN) Week. 4 hrs/week, 1 week.
6. Fall 2017. GSBS Core Tutor, BMSC 6204: Fundamentals of Biomedical Sciences IV. 8 hrs/week, 4 weeks.
7. Summer 2017. Instructor, Pre-Matriculation Physician Assistant Physiology Course. 20 hrs/week, 6 weeks preparation & 1 week teaching.
8. Spring 2017. Palmer Middle School. Palmer, Texas. How to Finance your Higher Education dreams without loans.
9. Spring 2017. Teaching Assistant, BMSC 5121: Ethics for Clinical Research. 9 hrs/week, 14 weeks.
10. Fall 2016. GSBS Core Forum Tutor, BMSC 6201-6204: Fundamentals of Biomedical Sciences I-IV. 10 hrs/week, 14 weeks.
11. Fall 2016. Instructor, Physiology Understanding (PhUN) Week. 4 hrs/week, 1 week.
12. Spring 2017. Medical Sciences Physiology Tutor, BMSC 5304: Physiology. 4 hrs/week, 4 weeks.
13. Summer 2016. GSBS Core Tutor, BMSC 6303: Integrated Biomedical Sciences III: Physiology and IV: Biochemistry, 10 hrs/week, 8 weeks

GRANTS

NIH Neurobiology of Aging T32 Training Fellowship
National Institute of Health (NIH)

2017

HONORS

NATIONAL

1. 2019. KK the Courageous Non-Profit Fundraising Lead.

2. April 2019. Invited Judge for APS Horwitz/Horowitz Undergraduate Research Awards at Experimental Biology.
3. April 2018. Invited Judge for APS Horwitz/Horowitz Undergraduate Research Awards at Experimental Biology.

LOCAL

1. 2018-2019. GSA President.
2. 2018. UNT Health Science Center Dinner and Dialogue. Student Ambassador.
3. 2018. 25th Anniversary of the GSBS Crawfish Boil Student GSBS Representative.
4. 2017. RAD Student Subcommittee.
5. 2017. Student Leadership and Professional Development Fund (SLPDF) Committee.
6. 2016-2018. GSA Vice-President.
7. 2015-present. UNTHSC Student Conduct Committee.
8. 2015-2016. GSBS Traditional Core Class Representative.
9. 2015-2016. GSA Travel Award Committee.
10. 2014. Distinguished Student Recognition. Texas A&M University.

AWARDS

NATIONAL

1. 2018. Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award. FASEB Experimental Biology.
2. 2018. Young Investigator Travel Award. Society for Experimental Biology and Medicine.
3. 2017-2018. Texas Public Education Grant.

LOCAL

1. 2018. Graduate Student Association Scholarship. UNTHSC.
2. 2018. GSA Travel Award. UNTHSC.
3. 2018. Outstanding Graduate Student- Department of Physiology & Anatomy. UNTHSC.
4. 2018. 1st Place Poster Presentation in Department of Physiology & Anatomy. Research Appreciation Day.
5. 2017. GSA Travel Award. UNTHSC.
6. 2017. SLPDF Travel Award. UNTHSC.
7. 2017. 1st Place Poster Presentation in Institute for Cardiovascular and Metabolic Diseases. Research Appreciation Day.
8. 2017. 3rd Place Poster Presentation in Graduate School of Biomedical Sciences. Research Appreciation Day.
9. 2016. Student Affairs Scholarship. UNTHSC.

- 10.2016. UNTHSC Tuition Grant. UNTHSC.
- 11.2016. GSBS Travel Award. UNTHSC.
- 12.2013. Judge Marvin Jones Scholarship. Texas A&M University.

PROFESSIONAL AFFILIATIONS

1. American Physiological Society (APS)
2. Society for Experimental Biology and Medicine (SEBM)
3. Society for Behavioral Neuroendocrinology (SBN)
4. International Neuroendocrine Federation (INF)
5. American Association for the Advancement of Science (AAAS)

VOLUNTEERING/COMMUNITY SERVICE

1. Skills Week at UNTHSC-GSBS Session 2019
2. Texas Academy of Biomedical Sciences (TABS) 2018
3. PhUN Week (APS) 2017-2018
4. Center for Transforming Lives 2016
5. Alzheimer's Walk 2015-2018
6. American Heart Walk 2015-2018
7. Presbyterian Night Shelter 2015