

Curriculum Vitae of
Lei Wang

Names Used in Academia: Lei A. Wang (2018-Present)
Lei Wang (Prior to 2018)

Personal Information:

Date of Birth: July 28, 1989
Gender: Male
Marital Status: Married
Citizenship: China

Contact information:

Department of Physiology and Anatomy
University of North Texas Health Science Center
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Fort Worth, TX, USA 76107
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Education:

Aug 2011 – Aug 2016 Ph.D., Pharmacodynamics
University of Florida, Gainesville, Florida, USA
Sep 2006 – Jul 2011 Bachelor of Medicine (Equivalent to US MD), Zhengzhou University, China

Positions:

Sep 2016 – Present Postdoctoral Research Associate
University of North Texas Health Science Center, Fort Worth, Texas

Honor and Awards:

2017 **Onsite Poster Presentation Award: Post Doctorate**, American Heart Association Council on Hypertension
2017 **Postdoctoral Travel Award (2017-2018)**, Graduate School of Biomedical Sciences, University of North Texas Health Science Center
2017 **Physiological Genomics Interest Group New Investigator Award**, American Physiological Society
2017 **Postdoctoral Travel Award (2016-2017)**, Graduate School of Biomedical Sciences, University of North Texas Health Science Center
2016 **Selected to Represent the Pharmacodynamics Department** for the 1st Annual Graduate Student Appreciation Week, University of Florida
2016 **Oral Competition Finalist (Top 3)**, 29th Annual Research Showcase, College of Pharmacy, University of Florida
2015 21st Annual **Outstanding International Student Award**, University of Florida
2015 **Best Poster Award**, Graduate Student Category, 5th Annual North Central Florida Society for Neuroscience Chapter Conference and Brain Awareness Week
2015 **Best Poster Award**, Graduate Student Division, 28th Annual Research Showcase, College of Pharmacy, University of Florida
2014 **Best Poster Award**, Graduate Student Division, 27th Annual Research Showcase, College of Pharmacy, University of Florida
2011 **Alumni Graduate Fellowship**, University of Florida
2007 **Outstanding Undergraduate Student Scholarship**, Zhengzhou University, China

Research Funding:

July 2018 – June 2020 Postdoctoral Fellowship, American Heart Association
Total Amount: \$104,060
Percentile Rank: 0.14%
Pay Line: 28.79%

Review Experience:

2018 Invited to review one manuscript for Frontiers in Physiology-Exercise in Physiology
2018 Invited to review one manuscript for PLOS One
2018 Invited to review one manuscript for Journal of Neuroinflammation
2018 Invited to review two manuscripts for American Journal of Physiology-Heart and Circulatory Physiology
2018 Invited to review twelve abstracts for Experimental Biology Conference

Academic and Community Services:

2018 Co-Chair, Featured Topic "INTERROGATING NEURONAL CIRCUITS MEDIATING BODY FLUID HOMEOSTASIS", Sponsored by CNS Section of American Physiological Society
2015 Judge, Alachua County Public School Science Fair, Gainesville, Florida
2015 Judge, Graduate Student Research Day, University of Florida
2015 Department Representative in Graduate Student Council, University of Florida

Teaching Experience:

2015 Lecturer, Systems Physiology and Pathophysiology 1, College of Pharmacy, University of Florida

Professional Societies:

Member American Heart Association
Member American Physiological Society

Peer Reviewed Publications:

1. **Wang LA**, de Kloet AD, Smeltzer MD, Cahill KM, Hiller H, Bruce EB, Pioquinto DJ, Ludin JA, Katovich MJ, Raizada MK, Krause EG. Coupling Corticotropin-Releasing-Hormone and Angiotensin Converting Enzyme 2 Dampens Stress Responsiveness in Male Mice. Neuropharmacology. 2018.
2. de kloet AD, **Wang L*** (co-first author), Pitra S, Hiller H, Smith JA, Tan Y, Nguyen D, Cahill KM, Sumners C, Stern JE, Krause EG. A Unique 'Angiotensin Sensitive' Neuronal Population Coordinates Neuroendocrine, Cardiovascular and Behavioral Responses to Stress. Journal of Neuroscience. 2017.
3. Peris J, Macfadyen K, Smith JA, de Kloet AD, **Wang L**, Krause EG. Oxytocin receptors are expressed on dopamine and glutamate neurons in the mouse ventral tegmental area that project to nucleus accumbens and other mesolimbic targets. Journal of Comparative Neurology. 2016.
4. **Wang L**, Hiller H, Smith JA, de Kloet AD, Krause EG. Angiotensin type 1a receptors in the paraventricular nucleus of the hypothalamus control cardiovascular reactivity and anxiety-like behavior in male mice. Physiological Genomics. 2016.
5. de Kloet AD, Pitra S, **Wang L**, Hiller H, Pioquinto DJ, Smith JA, Sumners C, Stern JE, Krause EG. Angiotensin Type-2 Receptors Influence the Activity of Vasopressin Neurons in the

- Paraventricular Nucleus of the Hypothalamus in Male Mice. Endocrinology. 2016.
6. de Kloet AD, **Wang L**, Ludin JA, Smith JA, Pioquinto DJ, Hiller H, Steckelings UM, Scheuer DA, Sumners C, Krause EG. Reporter mouse strain provides a novel look at angiotensin type-2 receptor distribution in the central nervous system. Brain Struct Funct. 2016.
 7. **Wang L**, de Kloet AD, Pati D, Hiller H, Smith JA, Pioquinto DJ, Ludin JA, Oh SP, Katovich MJ, Raizada MK, Frazier CJ, Krause EG. Angiotensin converting enzyme 2 decreases anxiety-like behavior by acting on mas receptor in the brain. Neuropharmacology. 2016.
 8. Qi YF, Zhang J, **Wang L**, Shenoy V, Krause E, Oh SP, Pepine CJ, Katovich MJ, Raizada MK. Angiotensin-converting enzyme 2 inhibits high-mobility group box 1 and attenuates cardiac dysfunction post-myocardial ischemia. J Mol Med (Berl). 2015.
 9. Smith JA, Pati D, **Wang L**, de Kloet AD, Frazier CJ, Krause EG. Hydration and beyond: neuropeptides as mediators of hydromineral balance, anxiety and stress-responsiveness. [Review]. Frontiers in Systems Neuroscience. 2015.
 10. Smith JA, **Wang L**, Hiller H, Taylor CT, de Kloet AD, Krause EG. Acute hypernatremia promotes anxiolysis and attenuates stress-induced activation of the hypothalamic-pituitary-adrenal axis in male mice. Physiol Behav. 2014.
 11. de Kloet AD, Pioquinto DJ, Nguyen D, **Wang L**, Smith JA, Hiller H, Sumners C. Obesity induces neuroinflammation mediated by altered expression of the renin-angiotensin system in mouse forebrain nuclei. Physiol Behav. 2014.
 12. de Kloet AD, Pati D, **Wang L**, Hiller H, Sumners C, Frazier CJ, Seeley RJ, Herman JP, Woods SC, Krause EG. Angiotensin type 1a receptors in the paraventricular nucleus of the hypothalamus protect against diet-induced obesity. J Neurosci. 2013.
 13. Frazier CJ, Pati D, Hiller H, Nguyen D, **Wang L**, Smith JA, MacFadyen K, de Kloet AD, Krause EG. Acute hypernatremia exerts an inhibitory oxytocinergic tone that is associated with anxiolytic mood in male rats. Endocrinology. 2013.

Oral Presentations:

1. Corticotropin-Releasing Hormone Receptor 2 in the Nucleus of the Solitary Tract Contributes to the Intermittent Hypoxia Induced Hypertension. Experimental Biology. 2018.
2. Activation of CRH Projections from the PVN to the NTS Increases Blood Pressure by Activating CRHR2. Experimental Biology. 2018.
3. Angiotensin type 1a receptors within the paraventricular nucleus of hypothalamus regulate cardiovascular and behavioral responsiveness to psychological stress. Experimental Biology. 2016.

Conference Abstracts:

1. **Wang L**, Nguyen D, Cross S, Mifflin S. Corticotropin-Releasing Hormone Receptor 2 in the Nucleus of the Solitary Tract Contributes to the Intermittent Hypoxia Induced Hypertension. Experimental Biology Abstracts. 2018.
2. **Wang L**, Mifflin S. Intermittent Hypoxia Attenuates Corticotropin-Releasing Hormone Receptor 2 (CRHR2) mRNA and CRHR2-Mediated Calcium Influx in Neurons in the Nucleus of the Solitary Tract. Council on Hypertension. 2017.
3. **Wang L**, Mifflin S. Chronic Intermittent Hypoxia Decreases the Levels of Corticotropin-Releasing Hormone Receptor 2 in the Nucleus of the Solitary Tract in Rats. Experimental Biology Abstracts. 2017.

4. Tan Y, Singhal S, Hiller H, Nguyen D, Colon-Perez L, Febo M, **Wang L**, Frazier CJ, Krause EG. Oxytocin Receptors are expressed on Neurons within the Prefrontal Cortex that Control Preference for Social Novelty. Experimental Biology Abstracts. 2017.
5. Scheuer D, Hiller H, McCowan M, **Wang L**, Krause EG. Identification of a Stress-Inhibitory Pathway from the Nucleus of the Solitary Tract (NTS) to the Bed Nucleus of the Stria Terminalis (BNST). Experimental Biology Abstracts. 2017.
6. **Wang L**, de Kloet AD, Hiller H, Smith JA, Ludin JA, Pioquinto DJ, Oh SP, Sumners C, Katovich MJ, Raizada MK, Krause EG. Bi-directional regulation of stress responsiveness by the local renin angiotensin system in the paraventricular nucleus of hypothalamus. Neurobiology of Stress Workshop. 2016.
7. de Kloet AD, **Wang L**, Ludin JA, Hiller H, Smith JA, Scheuer DA, Steckelings UM, Krause EG, Sumners C. Hindbrain Angiotensin Type-2 Receptors and Hypertension. Council on Hypertension. 2016.
8. Tan Y, Singhal S, Hiller H, Smith JA, **Wang L**, de Kloet, AD, Frazier CJ, Krause EG. Oxytocin receptors are expressed on neurons within the prefrontal cortex that control social behavior. Neurobiology of Stress Workshop. 2016.
9. Smith JA, Scheuer DA, Hiller H, **Wang L**, de Kloet AD, Krause EG. Chronic salt-loading increases corticotrophin-releasing hormone expression within preautonomic neurons in the paraventricular nucleus of male *Mus musculus*. Neurobiology of Stress Workshop. 2016.
10. **Wang L**, de Kloet AD, Smith JA, Hiller H, Sumners C, Raizada MK, Krause EG. Angiotensin type 1a receptors within the paraventricular nucleus of hypothalamus regulate cardiovascular and behavioral responsiveness to psychological stress. Experimental Biology Abstracts. 2016.
11. Peris J, MacFadyen K, Smith JA, **Wang L**, de kloet AD, Krause EG. Oxytocin Receptor Expression on Dopamine, Glutamate and GABA Neurons of the VTA: a Point of Access for Regulating Ethanol Consumption? Alcoholism: Clinical and Experimental Research. 2015.
12. **Wang L**, de Kloet AD, Pati D, Hiller H, Smith JA, Pioquinto DJ, Oh SP, Katovich MJ, Raizada MK, Frazier CJ, Krause EG. Angiotensin converting enzyme 2 attenuates the behavioral and endocrine responses to stress by acting on mas receptors in the brain. Society for Behavioral Neuroendocrinology. 2015.
13. Smith JA, Pati D, Harden S, Hiller H, **Wang L**, de Kloet AD, Frazier CJ, Krause EG. Optogenetic Stimulation of an Oxytocin Receptor-Affiliated Inhibitory Limbic Circuit Increases Social Interaction. Society for Behavioral Neuroendocrinology. 2015.
14. **Wang L**, de Kloet AD, Pati D, Hiller H, Smith JA, Pioquinto DJ, Oh SP, Katovich MJ, Raizada MK, Frazier CJ, Krause EG. Increasing Angiotensin Converting Enzyme 2 Activity in the Brain Is Anxiolytic and Dampens Activation of Hypothalamic-Pituitary-Adrenal Axis in Male Mice. Experimental Biology Abstracts. 2015.
15. Qi Y, Zhang J, **Wang L**, Krause EG, Oh SP, Shenoy V, Guzzo DS, Katovich MJ, Raizada MK, Pepine CJ. Role of High-mobility Group Box 1 in Angiotensin Converting Enzyme 2-Mediated Cardioprotective Effects in a Mouse Model of Myocardial Ischemia. Council on Hypertension. 2015.
16. Qi Y, Vohra R, Zhang J, **Wang L**, Krause EG, Guzzo DS, Walter GA, Katovich MJ, Maden M, Raizada MK, Pepine CJ. Cardiac Function is Protected from Ischemic Injury in African Spiny Mice. American Heart Association Scientific Sessions. 2015.
17. de Kloet AD, **Wang L**, Sumners C, Krause EG. Activation of Brain Angiotensin Type-2 Receptors Reverses DOCA-salt Hypertension in Mice. Experimental Biology Abstracts. 2015.

18. Smith JA, Pati D, Hiller H, **Wang L**, Frazier CJ, de Kloet AD, Krause EG. Chronic Salt-Loading Alters Pre-Autonomic Neuropeptide Expression in the Paraventricular Nucleus. Experimental Biology Abstracts. 2015.
19. de Kloet AD, **Wang L**, Ludin JA, Hiller H, Smith JA, Pioquinto DJ, Scheuer DA, Steckelings UM, Krause EG, Sumners C. Reporter mouse strain provides a novel look at angiotensin type-2 receptor distribution in central nervous system cardiovascular control centers. Council for High Blood Pressure Research. 2014.
20. Smith J.A., Pati D, Hiller H., **Wang L.**, Frazier C.J., de Kloet A.D., Krause E.G. Chronic salt-loading induces glutamatergic and neuroendocrine plasticity. Society for the Study of Ingestive Behavior. 2014.
21. de Kloet AD., Nguyen D, Pioquinto DJ., **Wang L**, Krause EG, Sumners C. Diet-induced obesity is associated with angiotensin-dependent microglial activation, astrogliosis and inflammation in the hypothalamus. The Society for Neuroscience Abstracts. 2013.
22. **Wang L**, de Kloet AD, Hiller H, Nguyen D, Smith JA, Krause EG. Angiotensin Converting Enzyme 2 is anxiolytic, alters stress-induced neuronal activation and expression of inflammatory cytokines in mice. The Society for Neuroscience Abstracts. 2013.