Brandon L. Roberts, Ph.D.

University of Wyoming
Dept. of Zoology & Physiology, Dept. of Animal Science
Program in Neuroscience
Laramie, WY 82071

Brandon.roberts@uwyo.edu

Current Position

	Current Fosition	
University of Wyoming Assistant Professor		Laramie, Wyoming Fall 2023 – Present
	Education	
Washington State University Ph.D., Neuroscience B.S., Neuroscience		Pullman, Washington 2009 – 2015 2005 – 2009
	Previous Appointments	
Postdoctoral Fellow University of Massachusetts – Amherst		March 2020 – August 2023 <i>Dr. Ilia Karatsoreos</i>
Postdoctoral Fellow Oregon Health & Science University		March 2015 – March 2020 Dr. Paul Kievit; Dr. Kevin Grove
Graduate Student Washington State University		Fall 2009 – Winter 2015 <i>Dr. Suzanne Appleyard</i>
Research Assistant Washington State University		Fall 2007 – Fall 2009 <i>Dr. Sue Ritter</i>
	Publications	

- 1. **Brandon L. Roberts**, Jiexin Wang, Haifa Chargui, Nathan C. Cupertino, Walker Sorensen, Ilia N. Karatsoreos. Perinatal circadian desynchronization disrupts sleep and prefrontal cortex function in adult offspring. SLEEP. 2025. DOI: 10.1093/sleep/zsaf210
- 2. Carey E. Dougan*, **Brandon L. Roberts***, Alfred J. Crosby, Ilia Karatsoreos, Shelly R. Peyton. *Impact of cavitation-induced traumatic brain injury on glial and neural function in the hippocampus*. <u>Biophysical Journal</u>, 2024. DOI: 10.1016/j.bpj.2024.07.040 *co-primary, contributed equally
- 3. **Brandon L. Roberts** and Ilia N. Karatsoreos. *Circadian desynchronization disrupts physiological rhythms of prefrontal cortex pyramidal neurons in mice*. <u>Scientific Reports</u>, 2023. DOI: 10.1038/s41598-023-35898-8
- 4. **Brandon L. Roberts**, Eric Kim, Katherine Tennant, Sarah Lindsley, and Paul Kievit. *Fibroblast growth factor -1 activates neurons in the arcuate nucleus and dorsal vagal complex*. <u>Frontiers in Endocrinology</u>, 2021. DOI: 10.3389/fendo.2021.772909
- 5. **Brandon L. Roberts** and Ilia Karatsoreos. *Brain-body responses to chronic stress: a brief review.* Faculty Reviews, 2021. 10:83. DOI: 10.12703/r/10-83
- 6. Brandon L. Roberts, Baylin J. Bennett, Camdin M. Bennett, Julie M. Carroll, Louise S. Dalbøge, Colin Hall, Wafa Hassouneh, Kristy M. Heppner, Melissa A. Kirigiti, Sarah R. Lindsley, Katherine G. Tennant, Cadence A. True, Andrew Whittle, Anitra C. Wolf, Charles T. Roberts, Jr., Mads Tang-Christensen, Mark W. Sleeman, Michael A. Cowley, Kevin L. Grove, Paul Kievit. Reelin is modulated by diet-induced obesity and has direct actions on arcuate proopiomelanocortin neurons. Molecular Metabolism, 2019. S2212-8778 (19)30147-4.
- 7. **Brandon L. Roberts**, Camdin M. Bennett, Julie M. Carroll, Sarah R. Lindsley, and Paul Kievit. *Early overnutrition alters synaptic signaling and induces leptin resistance in arcuate proopiomelanocortin neurons*. Physiology & Behavior, 2019. 206: 166-174.
- 8. **Brandon L. Roberts,** Mingyan Zhu, Huan Zhao, Crystal Dillon, and Suzanne M. Appleyard. *High glucose increases action potential firing of catecholamine neurons in the nucleus of the solitary tract by increasing spontaneous glutamate inputs.* American Journal of Physiology, 2017. 313(3):R229-R239.

- 9. **Brandon L. Roberts***, Ran Ji Cui*, Huan Zhao, Mingyan Zhu, and Suzanne M. Appleyard. *Serotonin activates catecholamine neurons in the Solitary Tract Nucleus by increasing spontaneous glutamate inputs.* Journal of Neuroscience, 2012. 32(46):p. 16530-8. *Co-primary, contributed equally
- 10. Ai-Jun Li, Michael F. Wiater, Marjolein T. Oostrom, Bethany R. Smith, Qing Wang, Thu T. Dinh, **Brandon L. Roberts**, Heiko T. Jansen and Sue Ritter. *Leptin-sensitive neurons in the arcuate nuclei contribute to endogenous feeding rhythms*. American Journal of Physiology, 2012. 302(11):R1313-26
- 11. Ran Ji Cui, **Brandon L. Roberts**, Huan Zhao, Michael C. Andresen, and Suzanne M. Appleyard, *Opioids inhibit visceral afferent activation of catecholamine neurons in the solitary tract nucleus*. <u>Neuroscience</u>, 2012. 2222:181-190.

Manuscripts In Preparation

- 1. Jiexin Wang, Ilia N. Karatsoreos and **Brandon L. Roberts**. *Transcriptional and physiological regulation of synaptic function in the PFC is time of day dependent.*
- 2. Prince Peter Wormenor, Nathan Cupertino, Jonathan Crider, Ryan Bosley, Whitney J. Walker, **Brandon L. Roberts**. *Acute high-fat diet disrupts diurnal properties of prefrontal cortex pyramidal neurons in mice*
- 3. Haifa Chargui, Kendal Rivera, Kaidance Taylor, Ryan Bosley, Silvee McCoy, Veronika Ozimek, Prince Peter Wormenor, Whitney J. Walker, **Brandon L. Roberts.** *One-week of high-fat diet has consequences for sleep and physiological rhythms.*
- 4. Jonathan Crider, Jacob Turner, **Brandon L Roberts**. Design and development of a low-cost mobile behavioral system for flexible high-throughput behavioral assays.

Invi	vited Presentations
	iteu Fresentations

- 1. **Brandon L. Roberts**. (2025) Al in Education: A Panel Discussion. Heterodox Academy Regional Conference. Colorado State University. Fort Collins, CO
- 2. **Brandon L. Roberts**. (2024) *Acute high-fat diet disrupts sleep and prefrontal cortex function in mice.* MCIN Program Seminar. Colorado State University. Fort Collins, CO
- 3. **Brandon L. Roberts**. (2023) Brown University Tom F. Anders Seminar Series. *How maternal circadian disruption impacts sleep and PFC function in adult offspring.* Providence, RI (*Virtual*)
- 4. **Brandon L. Roberts**. (2023) Sensory Biology Core Seminar Series. *From gestation to adulthood: How maternal environment impacts neural development and function*. Laramie, WY
- 5. **Brandon L. Roberts**, Ilia N. Karatsoreos. (2022) *Impact of circadian desynchronization on neural function in the prefrontal cortex*. MCB Postdoc Showcase. Amherst, MA
- 6. **Brandon L. Roberts**, Ilia N. Karatsoreos. (2022) Circadian desynchronization alters information throughput in the prefrontal cortex. Society for the Study of Biological Rhythms. Amelia Island, FL

- 1. **Brandon L. Roberts**, N. Ilia Karatsoreos. (2022) *Electrophysiological mechanisms of daily rhythms in the prefrontal cortex*. SRBR Global Talk Series. Virtual. *Voted one of top 6 presenters
- 2. **Brandon L. Roberts**, Camdin Bennett, and Paul Kievit. (2018) *Developmental and adult overnutrition alter synaptic inputs and leptin signaling onto proopiomelanocortin neurons in the arcuate nucleus of the hypothalamus*. Society for the Study of Ingestive Behavior; Bonita Springs, FL.
- 3. **Brandon L. Roberts**. (2016) *Target validation and outcomes*. Novo Nordisk Executive Steering Committee. Marriot Hotel, Portland, OR. *Nature of this presentation is confidential due to a non-disclosure agreement.
- 4. **Brandon L Roberts**, Mingyan Zhu, Suzanne M. Appleyard. (2014) Low glucose decreases action potential firing of catecholamine neurons in the nucleus of the solitary tract indirectly via a presynaptic 5-HT₃R dependent mechanism; Society for the Study of Ingestive Behavior; Seattle, WA.

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- Kendal Rivera, Kaidance Taylor, Ryan Bosley, Haifa Chargui, Silvee McCoy, Veronika Ozimek, Prince Peter Wormenor, Whitney J. Walker, **Brandon L. Roberts.** (2025) One-week of high-fat diet has consequences for daily rhythms and peripheral physiology. UW Undergraduate Research Inquiry Day. Laramie, WY.
- 2. Prince Peter Wormenor, Nathan Cupertino, Jonathan Crider, Ryan Bosley, Whitney J. Walker, **Brandon L. Roberts**. (2025) *Acute high-fat diet disrupts diurnal properties of prefrontal cortex pyramidal neurons in & mice.* UC San Diego Center for Circadian Biology Symposium. La Jolla, CA.
- 3. Haifa Chargui, Karla Pitha, Prince Peter Wormenor, Silvee R. McCoy, Veronika Ozimek, Kendal Rivera, Kaidance Taylor, Whitney J. Walker, Emily E. Schmitt, **Brandon L. Roberts**. (2025) *Chrono-exercise prevents fat accumulation, but not sleep disruption after acute high-fat diet exposure*. UC San Diego Center for Circadian Biology Symposium. La Jolla, CA.
- 4. Haifa Chargui, Prince Peter Wormenor, Whitney J. Walker, **Brandon L. Roberts**. (2024) *Impact of high-fat diet on sleep and prefrontal cortex function in mice*. Wyoming INBRE Conference. Laramie, WY.
- 5. **Brandon L. Roberts**, Nathan C. Cupertino, Haifa Chargui, Prince Peter Wormenor, Walker Sorensen, and Ilia N. Karatsoreos. (2024) *Maternal circadian desynchronization disrupts sleep and PFC function in adult male offspring.* Society for the Study of Biological Rhythms. San Juan, Puerto Rico.
- 6. Jiexin Wang, **Brandon L. Roberts**, Gregory Pearson, Francis Lin, Ilia N. Karatsoreos. (2024) *Glutamatergic Signaling and Gene Expression in PFC is Regulated by Time of day.* Society for the Study of Biological Rhythms. San Juan, Puerto Rico.
- 7. Carey E. Dugan*, **Brandon L. Roberts***, Ilia N. Karatsoreos, and Shelly R. Peyton. (2023) *Needle-induced cavitation alters excitatory release onto CA1 pyramidal neurons*. Interdisciplinary Neuroscience Conference. Amherst, MA. *co-presenters
- 8. **Brandon L. Roberts***, Nate Cupertino*, Walker Sorensen, Ilia N. Karatsoreos. (2023) *Maternal circadian desynchronization disrupts sleep and prefrontal cortex function in adult offspring.* UMass Interdisciplinary Neuroscience Conference. Amherst, MA. *Co-presenters
- 9. **Brandon L. Roberts**, Walker Sorensen, Ilia N. Karatsoreos. (2022) *Impact of maternal circadian disruption on sleep and neural function in adult offspring.* Int. Society for Develop. Psychobiology. San Diego, CA *Voted best virtual postdoc iPoster
- 10. Jiexin Wang, **Brandon L. Roberts**, Ilia N. Karatsoreos. (2022) Synaptic protein levels and physiological activity in primary cortical neurons are influenced by time of day. Society for Neuroscience. San Diego, CA
- 11. Carey E. Dugan*, **Brandon L. Roberts***, Ilia N. Karatsoreos, and Shelly R. Peyton. (2022) *Impact of traumatic brain injury on glial and neural function in the hippocampus*. Interdisciplinary Neuroscience Conference. Amherst, MA. *co-presenters
- 12. **Brandon L. Roberts**, Ilia N. Karatsoreos. (2021) *Neurophysiology of daily rhythms in the prefrontal cortex of male and female mice*. Neuroscience and Technology Poster Conference. Amherst, MA.
- 13. **Brandon L. Roberts**, Eric Kim, and Paul Kievit. (2019) *Synaptic Actions of Fibroblast Growth Factor -1 in the Hypothalamus and Dorsal Vagal Complex*. ObesityWeek. Las Vegas, NV.
- 14. Eric Kim*, and **Brandon L. Roberts**. (2020) *Combating Diabetes: Synaptic mechanisms of FGF1 in hypothalamic and hindbrain neurons*. Intel International Science and Engineering Fair. Beaverton, OR.
- 15. **Brandon L. Roberts**, Camdin Bennett, Louise Dalboege, Baylin Bennett, Kevin Grove and Paul Kievit. (2017) Reelin protein is increased in the hypothalamus of diet-induced obesity (DIO) mice and has direct actions on arcuate proopiomelanocortin (POMC) neurons. Keystone in Keystone, CO.
- 16. **Brandon L. Roberts** and Suzanne M. Appleyard. (2013) Low glucose decreases action potential firing of catecholamine neurons in the nucleus of the solitary tract indirectly by reducing glutamate input. Society for Neuroscience in San Diego, CA.
- 17. Zhao H., **Roberts B.L.***, Appleyard S.M. (2013) Catecholamine and non-catecholamine neurons have different mechanisms to facilitate synaptic transmission in the nucleus of the solitary tract in mice. Society for Neuroscience in San Diego, CA. (*Presenter; Original author not able to attend)

- 18. **Brandon L. Roberts**, Ran Ji Cui, Huan Zhao, Mingyan Zhu, and Suzanne M. Appleyard. (2011) *5-HT*₃ agonists activate catecholamine neurons in the solitary tract nucleus of the brainstem. Society for Neuroscience in Washington DC.
- 19. **Brandon L. Roberts**, X.J. Li, R.J. Cui, S.M. Appleyard. (2010) *Glucose sensitivity in the nucleus of the solitary tract*. CVM research symposium. Pullman, WA.
- 20. **Brandon L. Roberts**, Ai Jun Li, Thu Dinh, Sue Ritter. (2009) *Neuropeptide Y Receptor-Expressing Neurons Play a Critical Role in Feeding Behavior and Metabolic Function*; CVM Research Symposium, Pullman, WA.

Grants & Funding				
Wyoming Sensory Biology Center Research Project Leader \$450,000 (Dir Impact of early overnutrition on leptin signaling in hypothalamic neuropeptide \NIH COBRE Grant# 3P20GM121310-07				
IONs Inspiration Award; \$15,000	2022 – 2023			
Impact of traumatic brain injury on glial and neural function in the hippocampus				
Sleep Research Society Small Research Grant; \$5,000 Impact of maternal circadian disruption on sleep and PFC function in offspring				
Pending Submissions				
NIH R21 ; NIEHS Co-I: Dr. Emily Schmitt \$450,000 direct Chrono-Exercise as an Intervention for Diet-Induced Sleep Disruption and Cog	(In review) gnitive Function			
NIH 1R01DK146314-01; NIDDK; \$1,345,785 direct Acute high-fat diet disrupts sleep and cognitive function in mice	(Submitted)			
Fellowships & Awards				
SSIB Postdoctoral New Investigator Travel Award; \$500	2018			
Poncin Research Fellowship (<i>Two-year stipend</i>); ~\$40,000 Obesity alters serotonin signaling on hindbrain catecholamine neurons	2013 – 2015			
SSIB Graduate student New Investigator Travel Award; \$500	2014			
Pfizer Student Research Poster Presentation Award; \$500	2011			
Graduate Students				
PhD Student; Nathan C. Cupertino – <i>University of Wyoming</i> PhD Student; Baizar Alamiri – <i>University of Wyoming</i> PhD Student; Prince Peter Wormenor – <i>University of Wyoming</i> MS Student; Haifa Chargui – <i>University of Wyoming</i>	2025 – Present 2024 – Present 2023 – Present 2023 – Present			
Student Awards & Grants				
Bree Coxbill INBRE Undergraduate Research Grant; \$5,140 Taylor Stevens WY Research Scholars Program; \$5,700 Veronika Ozimek Undergraduate Physiology Scholarship; \$2,000 Haifa Chargui L. Floyd Clark Scholarship Fund; \$2,000 Prince Peter Wormenor Neuroscience Mini-grant; \$1,625 CCB Conference Travel Grant; \$1,200	2025 2025 2025 2024 2024 2024			
Teaching Experience				
 Instructor Neuroseminar 5715; University of Wyoming Instructor Human Physiology 3115; University of Wyoming Guest Lecturer Biological Psychology 330; University of Massachusetts Guest Instructor Immersive Neuroscience; Beaverton Health & Science Instructor From Bread to Brain; Saturday Academy Co-instructor Affective Neuroscience 409/509; Washington State University Teaching Assistant Neurophysiology 430; Washington State University 	20			
 Teaching Assistant Neuroanatomy 404; Washington State University 	2011 –20			

Mentored Students _

University of Wyoming G 1. Erik Gwaltney 2. Karla Pitha 3. Maycie Schultz 4. Sirjan Chhatwal 5. Madison Ruhmann 6. Ari Tuortellot	Neuroscience PhD Kinesiology MS Biomedical Sciences Ph Neuroscience PhD Neuroscience PhD Zoology & Physiology P		2025 – Present 2024 – Present 2024 – Present 2024 – 2025 2024 – Present 2023 – Present			
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Undergraduate; Nate Cupertino – UMass Graduate Student; Carey Dougan – UMass Undergraduate; Walker Sorensen – UMass High School Student; Eric Kim – John Hopkins University *National Regeneron Science Talent Search awardee Undergraduate; Camdin Bennett – Western University Northwest Medical School Undergraduate; Luke Duville – WiSA Tech. 2022 – 2023 2022 2019 – 2020 2015 – 2017 2015						
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NIH Early Career Researcher (ECR) Program Human Systems Physiology Course Named by Tobin Memorial Award Undergraduate Finalist as most influential course that changed their mind about an important issue						
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Roberts, Brandon Ph.D.

 Novo Nordisk Drug Discovery Partnership Presenter; ONPRC Camp Monkey, elementary school outreach Ambassador; New ONPRC postdoctoral fellows onboarding Faculty Search Committee; Washington State University Facilitator and Project Coordinator; Kid's Judge Neuroscience outreach Ambassador; WSU Neuroscience Program President; Neuroscience Undergraduates Teaching Students Mentor program President; Unite for Sight 	2015 - 2019 2016 - 2019 2016 - 2018 2014 2009 - 2014 2008 - 2009 2008 - 2009 2005 - 2006					
External Service						
NIH Study Section POMD -Cycle III 2026 NIH Study Section HSDO (<i>invited</i> – <i>declined</i>) Journal Reviewer: <i>Aging Cell; Scientific Reports; Frontiers in Endocrinology</i>						
Professional Memberships						
American Thoracic Society International Society for Developmental Psychobiology Sleep Research Society Society for Research on Biological Rhythms The Obesity Society Society for the Study of Ingestive Behavior Society for Neuroscience	2023 – Present 2022 – Present 2021 – Present 2020 – Present 2017 – Present 2014 – Present 2010 – Present					