

# Lisa Christine Hiura, Ph.D.

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## Education & Professional Appointments

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<b>University of Colorado Boulder</b> Assistant Research Professor, Dept. of Molecular, Cellular, & Developmental Biology	2022 – Present
<b>University of Colorado Boulder</b> NSF Postdoctoral Fellow in Biology, Dept. of Molecular, Cellular, & Developmental Biology Advisor: Zoe Donaldson, Ph.D.	2020 – 2022
<b>Cornell University</b> Ph.D., M.S. in Psychology, Behavioral and Evolutionary Neuroscience Advisor: Alexander Ophir, Ph.D.	2015 – 2018
<b>Reed College</b> B.A. in Psychology Advisor: Timothy Hackenberg, Ph.D.	2010 – 2014

## Major Awards

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2022	NIH Director's Early Independence Award (DP5, \$1,250,000)
2020-2022	NSF Postdoctoral Research Fellowship in Biology (\$138,000)
2022	CU Boulder Chancellor's Postdoctoral Fellowship for Diversity ( <i>declined</i> )

## Additional Awards and Honors

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2023	Grass Foundation Rising Stars in Neuroscience Trustee Achievement Award
2021	NIH Outstanding Scholars in Neuroscience Award
2020	Cornell University Psych Dept. Outstanding Graduate Student Award
2016, 2019	Cornell University Conference Travel Grant
2016 – 2019	NSF Graduate Research Fellowship
2017	Cornell Psychology Dept. Travel Grant
2015 – 2020	Cornell University Sage Fellowship
2014	Reed College Undergraduate Research Opportunity Grant
2012 – 2014	Reed College Academic Commendation (Honor Roll)

## Publications

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1. **Hiura LC**, Lazaro VA, Ophir AG (2023) Plasticity in parental behavior and vasopressin: Responses to co-parenting, pup age, and an acute stressor are experience-dependent. *Frontiers in Behavioral Neuroscience*. 17:1172845.
2. Monari P, Hammond E, Malone C, Cuarenta A, **Hiura L**, Wallace K, Taylor L, Pradhan D (2023) Leveraging individual power to improve racial equity in academia. *Hormones and Behavior*. 152:105358.
3. **Hiura LC**, Donaldson ZR (2023) Prairie vole pair bonding and plasticity of the social brain. *Trends in Neurosciences*. 46(4): 260-262.
4. Won L, **Hiura LC**, Yang E, Broekman KA, Ophir AG, Curley JP (2019) Social status in mouse social hierarchies is associated with variation in oxytocin and vasopressin 1a receptor densities. *Hormones and Behavior*. 97:47-55.
5. **Hiura LC**, Kelly AM, Ophir AG (2018) Age-specific and context-specific responses of the medial extended amygdala in the developing prairie vole. *Developmental Neurobiology*, 78(12):1231-1245.
6. **Hiura LC**, Ophir AG (2018) Interactions of sex and early life social experiences at two developmental stages shape nonapeptide receptor profiles. *International Journal of Zoology* 13(6), 745-760.
7. **Hiura LC**, Tan L, Hackenberg T (2018) To free or not the free: Social reinforcement effects in the social release paradigm with rats. *Behavioural Processes* 152, 37-46.
8. Kelly AM, **Hiura LC**, Ophir AG (2018) Rapid nonapeptide synthesis during a critical period of development in the prairie vole: Plasticity of the paraventricular nucleus of the hypothalamus. *Brain structure and function* 223(6), 2547-2560.
9. Kelly AM, **Hiura LC**, Saunders AG, Ophir AG (2017) Oxytocin neurons exhibit extensive functional plasticity due to offspring age in mothers and fathers. *Integr Comp Biol*. 57(3), 603-618.

## Manuscripts in Preparation

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1. **Hiura LC**, Lazaro VA, Ophir AG (*in prep*) Paternal absence, familial handling, and offspring age independently and interactively shape the development of prairie voles (*Microtus ochrogaster*).

## Invited Talks

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- Dec 2023 **Seminar in Biology. University of Colorado Colorado Springs**  
*Developmental plasticity and the onset of pair bonding in the socially monogamous prairie vole.*
- Nov 2023 **Colloquium in Integrative Physiology. University of Colorado Boulder.**  
*Developmental plasticity and the onset of pair bonding in the socially monogamous prairie vole.*
- Aug 2023 **Vole NSF EDGE Meeting. University of Colorado Boulder.**  
*Pair bonding ontogeny: from behavior to neurons.*

### Select Presentations and Posters

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- Esquilin-Rodriguez C, **Hiura L**, Protter D, Chapel G, Cameron R, Paulson M, Elges I, and Donaldson Z. Developing new strategies to examine pair bonds in prairie voles. 29th Puerto Rico Neuroscience Conference. Bayamon, PR. 2021. Poster.
- Esquilin-Rodriguez C, **Hiura L**, Protter D, Chapel G, Cameron R, Paulson M, Elges I, and Donaldson Z. Developing new strategies to examine pair bonds in prairie voles. Virtual Leadership Alliance National Symposium (vLANS). Boulder, CO. 2021. Oral presentation.
- Hiura LC**, Lazaro, VA, Ophir, AG (2019) Interactions of Maternal Care and Paternal Presence Impact the Nonlinear Trajectories of Offspring Social Development. Poster at the 23<sup>rd</sup> annual meeting of the Society for Behavioral Neuroendocrinology, Toronto, Canada, and Vole Meeting 2019 Austin, TX.
- Lazarro, VA, **Hiura LC**, Ophir AG (2018) The interplay of parental involvement in prairie vole parents. Poster at the Fall Forum for the Cornell Undergraduate Research Board. *\*Selected for Best Figures Award*
- Hiura LC**, Ophir AG (2018) Variations in rearing experiences influence open field test performance in prairie vole parents. Poster at the 9<sup>th</sup> International Congress of Neuroendocrinology.
- Hiura LC**, Kelly, AM, Ophir AG (2017) The ontogeny of dopaminergic neurons and their activity across social contexts. Poster at the 21<sup>st</sup> annual meeting of the Society for Behavioral Neuroendocrinology, Long Beach, CA.
- Hiura, LC**. & Ophir, A. (2016). Early life social experiences shape nonapeptide receptor expression profiles. Poster at the 20<sup>th</sup> annual meeting of the Society for Behavioral Neuroendocrinology, Montreal, Canada.

### Professional Service, Diversity Equity Inclusion & Justice

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| <b>2023</b>    | Organizer for JDEI Workshop at Vole NSF EDGE Meeting: Community conversation on Autism and disability  |
| <b>2023</b>    | Organizer for the Diversity, Equity, and Inclusion social at the Society for Behavioral Neuroendocrinology annual meeting                                  |
| <b>2023</b>    | Meet the Professor luncheon mentor at the Society for Behavioral Neuroendocrinology annual meeting   |
| <b>2023</b>    | CU Boulder Dept. of Molecular, Cellular, & Developmental Biology, DEI Committee  |
| <b>2023</b>    | NSF grant reviewer, Behavioral Systems Cluster   |
| <b>2022</b>    | CU Boulder Undergraduate Research Opportunity Program (UROP) reviewer  |
| <b>2022</b>    | Society for Behavioral Neuroendocrinology Meeting Panelist – “Leveraging privilege to improve racial equity: examples and insights from the SBN community” |
| <b>2021</b>    | Inaugural NSF REU Postdoctoral Mentor  |
| <b>2020-21</b> | Peer reviewer: eLife, Current Biology, Journal of Neuroscience, Journal of Comparative Psychology  |
| <b>2018-19</b> | Cornell Psychology Faculty Search Committee Student Representative   |

## Outreach and Community Service

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- 2022-23 Tour guide for visiting NeuroCURE students from Metropolitan State University of Denver
- 2023 Tour guide for visiting students from Front Range Community College
- 2022 500 Women Scientists, Women in Stem Career Panelist
- 2022 CU Boulder Behavioral Neuroscience Middle School Outreach, DSST Conservatory Green Middle School
- 2022 NeuroCURE guest lecturer at Metropolitan State University of Denver
- 2021 Action Potential Advising Program mentor
- 2020 Guest on Ask a Scientist Podcast
- 2015-20 Expanding Your Horizons at Cornell – Workshop leader for annual conference for 7th-9th grade girls interested in STEM fields
- 2018-19 The New York Academy of Sciences United Technologies STEM U Mentor
- 2018 NSF GRF Panelist for Cornell Human Development Proseminar
- 2018 Speaker for Summer Undergraduate Opportunities event for the Pre-Medical Minority Mentorship Program and the Black Bio-medical and Technical Association
- 2015-17 Teacher with Graduate Student Outreach Program at Cornell University

## Teaching Experience

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- 2023 **Cell Structure & Function**, co-teacher at University of Colorado Boulder
- 2023 **Genes, Brain, & Behavior**, guest lecture at University of Colorado Boulder
- 2019 **Biopsychology Laboratory**, teaching assistant at Cornell University
- 2015 **Statistics and Research Design**, teaching assistant at Cornell University
- 2014-15 **Introduction to Psychology I & II**, teaching assistant at Reed College
- 2013-14 **Behavioral Neuroscience**, teaching assistant at Reed College
- 2013 **Learning**, teaching assistant at Reed College

## Professional Affiliations

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- 2022-26 Diversity Equity and Inclusion Committee, Society for Behavioral Neuroendocrinology
- 2022 Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS)
- 2022 National Postdoctoral Association
- 2017-22 Professional Development Committee, Society for Behavioral Neuroendocrinology
- 2018 Young Ambassadors Committee, International Congress on Neuroendocrinology
- 2017-19 Cornell Psychology Shared Equipment Manager
- 2013 Leadership Enterprise for a Diverse America, Cohort V Scholar

## References

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Dr. Zoe Donaldson

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Dr. Alexander Ophir

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Dr. Aubrey Kelly

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