

## **Publications**

### **JOURNAL ARTICLES**

- 1. Orsini, C. A., Pyon, W. S., Dragone, R. J., Faraji, M., Wheeler, A.-R., Pompilus, M., Febo, M., Bizon, J. L., & Setlow, B. (2023). Age-related changes in risky decision making and associated neural circuitry in a rat model. *Eneuro*, 10(1), ENEURO.0385–22.2022. https://doi.org/10.1523/eneuro.0385-22.2022
- 2. Truckenbrod, L. M., Betzhold, S. M., Wheeler, A.-R., Shallcross, J., Singhal, S., Harden, S., Schwendt, M., Frazier, C. J., Bizon, J. L., Setlow, B., & Orsini, C. A. (2023). Circuit and cell-specific contributions to decision making involving risk of explicit punishment in male and female rats. *The Journal of Neuroscience*, 43(26), 4837–4855. https://doi.org/10.1523/jneurosci.0276–23.2023
- 3. Truckenbrod, L. M., Cooper, E. M., Wheeler, A.-R., & Orsini, C. A. (2023). Cocaine intake correlates with risk-taking behavior and affects estrous cycling in female sprague—dawley rats. *Frontiers in Behavioral Neuroscience*, 17. https://doi.org/10.3389/fnbeh.2023.1293226
- 4. Orsini, C. A., Kim, J. H., & Arguello, A. A. (2024). Editorial: Molecular underpinnings of relapse-like behavior: Drug context and development. *Frontiers in Behavioral Neuroscience*, 17. https://doi.org/10.3389/fnbeh.2023.1347621
- 5. Wheeler, A.-R., Truckenbrod, L. M., Cooper, E. M., Betzhold, S. M., Setlow, B., & Orsini, C. A. (2023). Effects of fentanyl self-administration on risk-taking behavior in male rats. *Psychopharmacology*, 240(12), 2529–2544. https://doi.org/10.1007/s00213-023-06447-y
- 6. Truckenbrod, L. M., Cooper, E. M., & Orsini, C. A. (2022). Cognitive mechanisms underlying decision making involving risk of explicit punishment in male and female rats. *Cognitive*, *Affective*, & *Behavioral Neuroscience*, 23(2), 248–275. https://doi.org/10.3758/s13415-022-01052-6
- 7. Orsini, C. A., Brown, T. E., Hodges, T. E., Alonso-Caraballo, Y., Winstanley, C. A., & Becker, J. B. (2022). Neural mechanisms mediating sex differences in motivation for reward: Cognitive bias, food, gambling, and drugs of abuse. *The Journal of Neuroscience*, 42(45), 8477–8487. https://doi.org/10.1523/jneurosci.1378–22.2022
- 8. Orsini, C. A., Truckenbrod, L. M., & Wheeler, A.-R. (2022). Regulation of sex differences in risk-based decision making by gonadal hormones: Insights from rodent models. *Behavioural Processes*, 200, 104663. https://doi.org/10.1016/j.beproc.2022.104663
- 9. Blaes, S. L., Shimp, K. G., Betzhold, S. M., Setlow, B., & Orsini, C. A. (2022). Chronic cocaine causes age-dependent increases in risky choice in both males and females. *Behavioral Neuroscience*, *136*(3), 243–263. https://doi.org/10.1037/bne0000509
- 10. Hernandez, C. M., Orsini, C. A., Blaes, S. L., Bizon, J. L., Febo, M., Bruijnzeel, A. W., & Setlow, B. (2020). Effects of repeated adolescent exposure to cannabis smoke on cognitive outcomes in adulthood. *Journal of Psychopharmacology*, 35(7), 848–863. https://doi.org/10.1177/0269881120965931
- 11. Garman, T. S., Setlow, B., & Orsini, C. A. (2021). Effects of a high-fat diet on impulsive choice in rats. *Physiology & Behavior*, 229, 113260. https://doi.org/10.1016/j.physbeh.2020.113260
- 12. Orsini, C. A., Blaes, S. L., Hernandez, C. M., Betzhold, S. M., Perera, H., Wheeler, A.-R., Ten Eyck, T. W., Garman, T. S., Bizon, J. L., & Setlow, B. (2020). Regulation of risky decision making by gonadal hormones in males and females. *Neuropsychopharmacology*, 46(3), 603–613. https://doi.org/10.1038/s41386-020-00827-0

#### **PREPRINTS**

1. Truckenbrod, L. M., Betzhold, S. M., Wheeler, A.-R., Shallcross, J., Singhal, S., Harden, S., Schwendt, M., Frazier, C. J., Bizon, J. L., Setlow, B., & Orsini, C. A. (2023). *Circuit and cell-specific contributions to decision making involving risk of explicit punishment in male and female rats.*https://doi.org/10.1101/2023.01.15.524142

#### Books

### **BOOK CHAPTERS**

1. Orsini, C. A. (2024). Sex differences in risk/reward decision making. In *Encyclopedia of the human brain, second edition*.

# **Professional Presentations**

Neurobiological mechanisms of risk-based decision making	
Texas A&M University	2024
Risk-based decision making: neurobiological substrates and the impact of chronic drug	
exposure.	
University of Texas Health San Antonio	2024
The relationship between chronic opioid exposure and changes in risk taking.	
Neurobiology of Addiction Gordon Research Conference	2024
Uncovering the neurobiological and hormonal basis of sex differences in risk taking.	
MEDICAL UNIVERSITY OF SOUTH CAROLINA.	2024
Contribution of mesolimbic circuits and cell populations in risky decision making.	
NATIONAL INSTITUTE ON ALCOHOL AND ALCOHOL ABUSE	2023
Hormonal regulation of decision making	
Purdue University	2023
The role of dopamine D2 receptors in the basolateral amygdala in punishment-based risky decision making.	
Amygdala Gordon Research Conference, Barcelona, Spain.	2023
Amygdala-striatal circuitry in risky decision making.	
Baylor University, Department of Psychology & Neuroscience Seminar series.	2022
Amygdala-striatal circuitry in risky decision making.	
University of Texas at San Antonio, Spring Neuroscience Seminar series	2022
Hormonal basis of sex differences in reward-based decision making.	
Society for Neuroscience, San Diego, CA.	2022
Hormonal regulation of decision making involving risk of punishment.	
International Behavioral Neuroscience Society, Glasgow Scotland.	2022
Hormonal regulation of risk-based decision making: implications for decision making	
impairments associated with substance use disorders.	
NIDA Women's Sex and Gender Workgroup seminar.	2022
Sex differences in dopaminergic modulation of punishment-based risky decision making.	
International Behavioral Neuroscience Society, Glasgow Scotland.	2022
Uncovering the neurobiological and hormonal basis of sex differences in risk taking.	
University of Buffalo, Department of Psychology.	2022
Amygdala-striatal circuitry in risky decision making.	
Andrews Genomics Scholar Lecture Series, Oregon Health & Science University, Portland, OR (virtual).	2021
Chronic cocaine causes age-dependent increases in risk taking in rats of both sexes.	
PAVLOVIAN SOCIETY MEETING, ANN ARBOR, MI.	2021
Hormonal regulation of risky choice in males and female rats.	
SOCIETY FOR THE QUANTITATIVE ANALYSES OF BEHAVIOR	2021
Sex differences in dopaminergic modulation of punishment-based risky decision making.	
American College of Neuropsychopharmacology, Puerto Rico.	2021
Uncovering the neurobiological and hormonal basis of sex differences in risk taking.	
Waggoner Center for Alcohol and Addiction Research seminar series, Austin, TX.	2021
Uncovering the neurobiological and hormonal basis of sex differences in risk taking.	
DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF MEMPHIS, MEMPHIS, TN.	2021
Conference Abstracts	

Relationship between risk-taking behavior and synthetic opioid use in a rodent model.	
FIFTH ANNUAL KOREAN-AMERICAN KAVLI FRONTIERS IN SCIENCE SYMPOSIUM	2024
Contributions of estradiol and progesterone to female risk aversion.	
Society for Neuroscience	2023
Contributions of estradiol and progesterone to female risk aversion.	
International Behavioral Neuroscience Society meeting	2023
Contributions of estradiol and progesterone to female risk aversion.	
PAVLOVIAN SOCIETY MEETING	2023
Contributions of ventral tegmental area dopamine neurons to decision making under risk of	
punishment.	
PAVLOVIAN SOCIETY MEETING	2023
Contributions of ventral tegmental area dopamine neurons to decision making under risk of	
punishment.	
SOCIETY FOR NEUROSCIENCE	2023
Effects of fentanyl self-administration on risk-taking behavior in rats.	
International Behavioral Neuroscience Society meeting	2023
Effects of fentanyl self-administration on risk-taking behavior in rats.	
WAGGONER CENTER FOR ALCOHOL AND ADDICTION RESEARCH ANNUAL SYMPOSIUM	2023
Relationships between fentanyl self-administration and risk-taking behavior in rats.	
PAVLOVIAN SOCIETY MEETING	2023
Relationships between fentanyl self-administration and risk-taking behavior in rats.	
SOCIETY FOR NEUROSCIENCE	2023
Neural Mechanisms Mediating Sex Differences in Motivation for Reward: Cognitive Bias,	
Food, Gambling, and Drugs of Abuse	
JOURNAL OF NEUROSCIENCE	2022
Cocaine intake affects estrous cycling and correlates with risk-taking behavior in female rats.	
Society for Neuroscience meeting, San Diego, CA.	2022
Cognitive relationships underlying risky decision making in male and female rats.	
International Society for Behavioral Neuroscience, Glasgow, Scotland.	2022
Contributions of ventral tegmental area dopamine neurons to decision making under risk of	
punishment	
Society for Neuroscience meeting, San Diego, CA	2022
Fentanyl self administration increases risk taking behavior in male rats.	
Society for Neuroscience meeting, San Diego, CA.	2022
Sex differences in dopaminergic regulation of risky decision making.	
International Society for Behavioral Neuroscience, Glasgow, Scotland.	2022
Chronic cocaine causes age-dependent increases in risk taking in rats of both sexes.	
American College of Neuropsychopharmacology, virtual.	2021
Cognitive relationships underlying risky decision making in male and female rats.	
Society for Neuroscience, virtual	2021
Sex differences in dopaminergic regulation of decision making.	
Waggoner Center for Alcohol and Addiction Research Advance symposium, UT Austin, Virtual.	2021
Waggoner Center for Alcohol and Addiction Research Advance symposium, UT Austin, Virtual.  Sex differences in dopaminergic regulation of risky decision making.	2021

SOCIETY FOR NEUROSCIENCE, VIRTUAL 2021

## Honors\_

**Faculty Travel Grant** Austin, US THE UNIVERSITY OF TEXAS AT AUSTIN **Associate Member** TN, US AMERICAN COLLEGE OF NEUROPSYCHOPHARMACOLOGY 2022 **Faculty Travel Grant** Austin, US THE UNIVERSITY OF TEXAS AT AUSTIN

## **Funding**

FUNDING: \$744,605

Investigation of the neurobiological mechanisms underlying estradiol-mediated risk aversion in females

FUNDING: \$590,789 2023 - 2028

National Institute on Drug Abuse,

R01DA055676

R21DA053462

R00DA041493

2019 - 2023

2023 - present

National Institute on Alcohol Abuse Reducing alcohol-seeking behavior in a rat model of alcohol dependence and Alcoholism, R01AA029386

FUNDING: \$353,582 2022 - 2027

Examination of fentanyl-induced insensitivity to risk of punishment during decision making National Institute on Drug Abuse, and the potential use of methadone and buprenorphine in attenuating risk-taking deficits

FUNDING: \$235,139 2022 - 2024

Neural circuits and mechanisms underlying maladaptive risk-taking following cocaine National Institute on Drug Abuse, self-administration

GRANT REVIEWER, PATHWAY TO INDEPENDENCE AWARDS (K99/R00)

Service University of California, San Diego San Diego, US GRANT REVIEW FOR THE CENTER FOR MEDICINAL CANNABIS RESEARCH GRANTS PROGRAM 2023 - present

**Society for Advancing Gender Equity in STEM** Austin, US FACULTY ADVISOR 2023 - present

**National Institute of Mental Health** Bethesda, US

Pharmacology, Biochemistry and Behavior N/A, US

REVIEWER 2023 - present

**National Institute of Mental Health** Bethesda, US GRANT REVIEWER, PATHWAY TO INDEPENDENCE AWARDS (K99/R00) 2022 - present

**National Institute of Mental Health** Md., US

GRANT REVIEWER, PATHWAY TO INDEPENDENCE AWARDS (K99/R00) 2022 - present

**Promotion and Tenure Revamp Committee** Austin, US MEMBER 2022 - present

**Encyclopedia of the Human Brain** N/A, US

Co-Section Editor 2021 - present

**Institutional Biosafety Committee** Austin, US

MEMBER 2020 - present

IDEAS Committee	Austin, US
Member	2020 - present
Neuropharmacology	N/A, US
Manuscript Reviewer	2020 - present
Cerebral Cortex	N/A, US
Manuscript Reviewer	2020 - present
National Institute on Drug Abuse	Bethesda, US
Grant Reviewer, Cutting-Edge Basic Research Awards (R21),	2019 - present
Psychopharmacology	N/A, US
Manuscript Reviewer	2019 - present
The Journal of Neuroscience	N/A, US
Manuscript Reviewer	2019 - present
Behavioural Brain Research	N/A, US
Manuscript Reviewer	2019 - present
Neurobiology of Aging	N/A, US
Manuscript Reviewer	2019 - present
Neuropsychopharmacology	N/A, US
Manuscript Reviewer	2019 - present
Physiology & Behavior	N/A, US
Manuscript Reviewer	2019 - present
Behavioral Neuroscience	N/A, US
Manuscript Reviewer	2019 - present
Executive Committee	Austin, US
Member	2022 - 2023
Department Colloquium Committee	Austin, US
Chair	2022 - 2023
PLoS One	N/A, US
MEMBER	2021 - 2023
WM Keck Science Center	Claremont, US
GRANT REVIEWER	2021 - 2021
Executive Committee	Austin, US
MEMBER	2020 - 2021
Mentoring and Teaching	
MENTORING	
April Ju)	
Undergraduate Honors Thesis mentor	2023 - present
Emily Zoorob	
Undergraduate Honors Thesis mentor	2023 - present
Isabel Csitkovits	
Undergraduate Research mentor	2023 - present
Sydney Tu	
Undergraduate Research mentor	2023 - present
Nadia Carlos	

2022 - present

Undergraduate Research mentor

### **Hannah Cutright** Undergraduate Research mentor 2022 - present **Alexa-Rae Wheeler** DISSERTATION SUPERVISOR 2021 - present **Leah Truckenbrod** DISSERTATION SUPERVISOR 2020 - present April Ju Undergraduate Research mentor 2020 - present **Payton Kahanek** PHARMACOLOGY & TOXICOLOGY ROTATION PHD SUPERVISOR 2023 - 2024 **Sree Darma)** Undergraduate Research mentor 2023 - 2023 **Marion Mochache** Undergraduate Research mentor 2023 - 2023 **Isabelle Tseng** Undergraduate Research mentor 2022 - 2023 **Zorana Opachich** INS PhD Rotation Supervisor 2023 - 2023 **Kathy Tran** UNDERGRADUATE RESEARCH MENTOR **Sydney Tu** WOMEN IN NEUROSCIENCE INTERNSHIP MENTOR 2023 - 2023 Giselle Pedraza Undergraduate Research mentor **Erin Brill** Undergraduate Research mentor 2022 - 2023 **Allison Greer** Undergraduate Research mentor 2022 - 2023 **Allison Lau** Undergraduate Research mentor 2022 - 2023 Mentoring Best Practices Course by Drs. Yael Niv and Laura Murray PARTICIPANT NA - 2023 **Merrick Garner** Undergraduate Research mentor 2020 - 2022 **Adrian Boehnke** Undergraduate Research mentor 2020 - 2022 **Megan Thomas** UNDERGRADUATE RESEARCH MENTOR 2020 - 2022 **Kyla Gruenberger** UNDERGRADUATE RESEARCH MENTOR 2020 - 2022 **Stephanie Root** UNDERGRADUATE RESEARCH MENTOR 2020 - 2021 Xinyu Jia Undergraduate Research mentor

### TEACHING

# Institute for Neuroscience Bootcamp

Instructor	2021 - present
Psychopharmacology	
Instructor	2024 - 2024
Psychopharmacology	
Instructor	2023 - 2023
PSY353	
Instructor	2023 - 2023
INSTRUCTOR (INSTITUTE FOR NEUROSCIENCE BOOTCAMP)	2023 - 2023
Institute for Neuroscience Bootcamp	
Instructor	2022 - 2022
PSY353	
INSTRUCTOR	2021 - 2021