

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., 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*. <https://doi.org/10.3758/s13415-022-01052-6>
3. 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>
4. 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>
5. 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>
6. 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>
7. Garman, T. S., Setlow, B., & Orsini, C. A. (2020). Effects of a high-fat diet on impulsive choice in rats. *Physiology & Behavior*, 229, 113260. <https://doi.org/10.1016/j.physbeh.2020.113260>
8. Orsini, C. A., Blaes, S. L., Hernandez, C. M., Betzhold, S. M., Perera, H., Wheeler, A.-R., Eyck, T. W. T., 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>
9. Orsini, C. A., & Simon, N. W. (2020). Reward/punishment-based decision making in rodents. *Current Protocols in Neuroscience*, 93(1). <https://doi.org/10.1002/cpns.100>
10. Hernandez, C. M., Orsini, C., Wheeler, A.-R., Eyck, T. W. T., Betzhold, S. M., Labiste, C. C., Wright, N. G., Setlow, B., & Bizon, J. L. (2020). Testicular hormones mediate robust sex differences in impulsive choice in rats. *eLife*, 9. <https://doi.org/10.7554/eLife.58604>
11. Setlow, B., Blaes, S. L., Burns, M. R., Dragone, R. J., & Orsini, C. A. (2020). Using rodent models to understand interactions between gambling and substance use. *Current Opinion in Behavioral Sciences*, 31, 37–41. <https://doi.org/10.1016/j.cobeha.2019.10.012>
12. Orsini, C. A., Blaes, S. L., Dragone, R. J., Betzhold, S. M., Finner, A. M., Bizon, J. L., & Setlow, B. (2020). Distinct relationships between risky decision making and cocaine self-administration under short- and long-access conditions. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 98, 109791. <https://doi.org/10.1016/j.pnpbp.2019.109791>

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

Professional Presentations

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

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

Amygdala-striatal circuitry in risky decision making.

WAGGONER CENTER FOR ALCOHOL AND ADDICTION RESEARCH SEMINAR SERIES, AUSTIN, TX.

2020

Amygdala-striatal circuitry in risky decision making.

FLORIDA CONSORTIUM ON THE NEUROBIOLOGY OF COGNITION.

2020

Amygdala-striatal circuitry in risky decision making.

TEXAS A&M UNIVERSITY INSTITUTE FOR NEUROSCIENCE, COLLEGE STATION, TEXAS. *CANCELLED DUE TO COVID.

2020

Representation of risk salience in the basolateral amygdala.

WINTER CONFERENCE ON BRAIN RESEARCH, BIG SKY, MONTANA.

2020

Conference Abstracts

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

Sex differences in dopaminergic regulation of risky decision making.

SOCIETY FOR NEUROSCIENCE, VIRTUAL

2021

Temporally-specific inhibition of ventral tegmental area dopamine neurons during decision making under risk of punishment.

SOCIETY FOR NEUROSCIENCE, VIRTUAL

2021

Honors

Faculty Travel Grant

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2022

Faculty Travel Grant

THE UNIVERSITY OF TEXAS AT AUSTIN

Austin, US

2021

Funding

Reducing alcohol-seeking behavior in a rat model of alcohol dependence

FUNDING: \$353,582

National Institute on Alcohol Abuse
and Alcoholism, R01AA029386

2022 - 2027

Examination of fentanyl-induced insensitivity to risk of punishment during decision making and the potential use of methadone and buprenorphine in attenuating risk-taking deficits

FUNDING: \$235,139

National Institute on Drug Abuse,
R21DA053462

2022 - 2024

Neural circuits and mechanisms underlying maladaptive risk-taking following cocaine self-administration

FUNDING: \$744,605

National Institute on Drug Abuse,
R00DA041493

2019 - 2023

Service

National Institute of Mental Health

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

Bethesda, US

2023 - present

National Institute of Mental Health

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

Bethesda, US

2022 - present

National Institute of Mental Health

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

Md., US

2022 - present

Promotion and Tenure Revamp Committee	<i>Austin, US</i>
MEMBER	<i>2022 - present</i>
Encyclopedia of the Human Brain	<i>N/A, US</i>
CO-SECTION EDITOR	<i>2021 - present</i>
PLoS One	<i>N/A, US</i>
MEMBER	<i>2021 - present</i>
Cerebral Cortex	<i>N/A, US</i>
MANUSCRIPT REVIEWER	<i>2020 - present</i>
Neuropharmacology	<i>N/A, US</i>
MANUSCRIPT REVIEWER	<i>2020 - present</i>
National Institute on Drug Abuse	<i>Bethesda, US</i>
GRANT REVIEWER, CUTTING-EDGE BASIC RESEARCH AWARDS (R21),	<i>2020 - present</i>
IDEAS Committee	<i>Austin, US</i>
MEMBER	<i>2020 - present</i>
Institutional Biosafety Committee	<i>Austin, US</i>
MEMBER	<i>2020 - present</i>
Behavioral Neuroscience	<i>N/A, US</i>
MANUSCRIPT REVIEWER	<i>2019 - present</i>
Neurobiology of Aging	<i>N/A, US</i>
MANUSCRIPT REVIEWER	<i>2019 - present</i>
Behavioural Brain Research	<i>N/A, US</i>
MANUSCRIPT REVIEWER	<i>2019 - present</i>
Physiology & Behavior	<i>N/A, US</i>
MANUSCRIPT REVIEWER	<i>2019 - present</i>
Psychopharmacology	<i>N/A, US</i>
MANUSCRIPT REVIEWER	<i>2019 - present</i>
Neuropsychopharmacology	<i>N/A, US</i>
MANUSCRIPT REVIEWER	<i>2019 - present</i>
The Journal of Neuroscience	<i>N/A, US</i>
MANUSCRIPT REVIEWER	<i>2019 - present</i>
National Institute on Drug Abuse	<i>Bethesda, US</i>
GRANT REVIEWER, CUTTING-EDGE BASIC RESEARCH AWARDS (R21),	<i>2019 - present</i>
Department Colloquium Committee	<i>Austin, US</i>
CHAIR	<i>2022 - 2023</i>
Executive Committee	<i>Austin, US</i>
MEMBER	<i>2022 - 2023</i>
WM Keck Science Center	<i>Claremont, US</i>
GRANT REVIEWER	<i>2021 - 2021</i>
Executive Committee	<i>Austin, US</i>
MEMBER	<i>2020 - 2021</i>

Mentoring and Teaching	
MENTORING	
Giselle Pedraza	
UNDERGRADUATE RESEARCH MENTOR	<i>2023 - present</i>

Sydney Tu

UNDERGRADUATE RESEARCH MENTOR

2023 - present

Hannah Cutright

UNDERGRADUATE RESEARCH MENTOR

2022 - present

Erin Brill

UNDERGRADUATE RESEARCH MENTOR

2022 - present

Allison Lau

UNDERGRADUATE RESEARCH MENTOR

2022 - present

Isabelle Tseng

UNDERGRADUATE RESEARCH MENTOR

2022 - present

Allison Greer

UNDERGRADUATE RESEARCH MENTOR

2022 - present

Nadia Carlos

UNDERGRADUATE RESEARCH MENTOR

2022 - present

Alexa-Rae Wheeler

DISSERTATION SUPERVISOR

2021 - present

April Ju

UNDERGRADUATE RESEARCH MENTOR

2020 - present

Leah Truckenbrod

DISSERTATION SUPERVISOR

2020 - present

Kyla Gruenberger

UNDERGRADUATE RESEARCH MENTOR

2020 - 2022

Megan Thomas

UNDERGRADUATE RESEARCH MENTOR

2020 - 2022

Merrick Garner

UNDERGRADUATE RESEARCH MENTOR

2020 - 2022

Adrian Boehnke

UNDERGRADUATE RESEARCH MENTOR

2020 - 2022

Xinyu Jia

UNDERGRADUATE RESEARCH MENTOR

2020 - 2021

Stephanie Root

UNDERGRADUATE RESEARCH MENTOR

2020 - 2021

TEACHING

Institute for Neuroscience Bootcamp

INSTRUCTOR

2022 - present

Institute for Neuroscience Bootcamp

INSTRUCTOR

2021 - present

PSY353

INSTRUCTOR

2019 - present

PSY353

INSTRUCTOR

2023 - 2023

PSY353

INSTRUCTOR

2021 - 2021

PSY394P

INSTRUCTOR

2020 - 2020