# Curriculum Vitae Dylan Emily Kirsch PhD

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## PROFESSIONAL EXPERIENCE

Postdoctoral Fellow 2023 - Present

Department of Psychology, University of California, Los Angeles

Addictions Laboratory (PI: Lara A. Ray, PhD)

Mentors: Lara A. Ray, PhD and Erica N. Grodin, PhD

#### Postbaccalaureate Research Associate

2016 - 2017

Department of Molecular and Medical Pharmacology, Ahmanson Translational Imaging Division

University of California, Los Angeles

Faculty Supervisor: Daniel Silverman, MD, PhD

## **EDUCATION**

## **Doctor of Philosophy in Neuroscience**

2017 - 2022

The University of Texas at Austin Mentor: Elizabeth Lippard, PhD

Dissertation: Ventral prefrontal network connectivity and alcohol sensitivity in bipolar disorder and typical

developing young adults

## **Bachelor of Sciences in Psychobiology**

2012 - 2016

University of California, Los Angeles

## **PUBLICATIONS**

### **Peer Reviewed Publications**

- 1. **Kirsch DE**, Ray LA, Wassum K, Grodin EN. Anterior cingulate and medial frontal cortex alcohol cue reactivity varies as a function of drink preference in alcohol use disorder. *Drug Alcohol Dep.*, 2024. DOI: 10.1016/j.drugalcdep.2024.111123
- 2. Grodin EN, **Kirsch DE**, Belnap MA, Ray LA. Sex differences in neural response to an acute stressor in individuals with an alcohol use disorder. (*in press*) *Alcoholism: Clinical & Experimental Research*.
- 3. **Kirsch DE**, Belnap MA, Burnette, EM, Grodin EN, Ray LA. Pharmacological Treatments for Alcohol Use Disorder: Considering the Role of Sex and Gender. *Current Addiction Reports*, 2024. DOI: 10.1007/s40429-023-00535-x
- 4. **Kirsch DE**, Kosted R, Le V, Almeida JRC, Fromme K, Strakowski SM, and Lippard ETC. Neural Response to Alcohol in Young Adults with Bipolar Disorder and Recent Alcohol Use: a Within-Subject Randomized Placebo-Controlled Alcohol Administration Study. *Neuropsychopharmacology*, 2023. DOI: 10.1038/s41386-023-01657-6
- 5. Kosted R, **Kirsch DE**, Le V, Fromme K, and Lippard ETC. Subjective Response to Alcohol: Interactive Effects of Early Life Stress, Parental Risk for Mood and Substance Use Disorders, and Drinking Context. *Pharmacology, Biochemistry, and Behavior*, 2023. DIO: 10.1016/j.pbb.2023.173591
- Lippard ETC, Kirsch DE, Kosted R, Le V, Almeida JRC, Fromme K, and Strakowski SM. Subjective Response to Alcohol in Young Adults with Bipolar Disorder and Recent Alcohol Use: a Within-Subject Randomized Placebo-Controlled Alcohol Administration Study. *Psychopharmacology*, 2023. DOI: 10.1007/s00213-023-06315-9
- 7. **Kirsch, DE**, Le V, Kosted R, Fromme K, and Lippard ETC. Neural underpinnings of expecting alcohol: Placebo alcohol administration alters nucleus accumbens resting state functional connectivity. *Behavioral Brain Research*, 2023. DOI: 10.1016/j.bbr.2022.114148
- 8. Tretyak V, **Kirsch DE**, Le V, Fromme K, Strakowski SM, and Lippard ETC. Coping Drinking Motives, Neural Functional Connectivity during Emotion Processing, and Alcohol Use in Young Adults with Bipolar Disorder. *Alcoholism: Clinical & Experimental Research*, 2022. DOI: 10.1111/acer.14885.

- 9. **Kirsch DE**, Tretyak V, Le V, Huffman A, Fromme K, Strakowski SM, and Lippard ETC. Alcohol Use and Prefrontal Cortex Trajectories in Young Adults with Mood Disorders and Associated Clinical Outcomes. *Behavioral Sciences*, 2022. DOI:10.3390/ bs12030057
- 10. **Kirsch DE** and Lippard ETC. Early Life Stress and Substance Use Disorders: Critical Role of Adolescence. *Pharmacology Biochemistry and Behavior*, 2022. DOI: 10.1016/j.pbb.2022.173360
- 11. **Kirsch DE**, Preston A, Tretyak V, Le V, Weber W, Strakowski SM, and Lippard ETC. Neural Functional Connectivity Changes to Psychosocial Stress in Young Adults with Bipolar Disorder and Associations with Clinical Trajectories. *Bipolar Disorders*, 2022. DOI:10.1111/bdi.13127
- 12. Le V, **Kirsch DE**, Tretyak V, Strakowski SM, and Lippard ETC. Recent Perceived Stress, Amygdala Reactivity to Acute Psychosocial Stress, and Alcohol Use in Young Adults with Bipolar Disorder. *Frontiers Psychiatry*, 2021. DOI:10.3389/fpsyt.2021.767309
- 13. **Kirsch DE**, Tretyak V, Radpour S, Weber WA, Nemeroff CB, Fromme K, Strakowski SM, and Lippard ETC. Childhood maltreatment, prefrontal-paralimbic gray matter volume, and associated substance use in young adults and interactions with risk for bipolar disorder. *Scientific Reports*, 2021. DOI: 10.1038/s41598-020-80407-w
- 14. Tretyak V, **Kirsch DE**, Radpour S, Weber W, Fromme K, Strakowski SM, and Lippard ETC. Subjective response to alcohol in typically developing emerging adults and those with bipolar disorder, associated alcohol use, and orbitofrontal gray matter volume. *Journal of Affective Disorders*, 2021. DOI: 10.1016/j.iad.2020.10.046
- 15. **Kirsch DE**, Nemeroff CB, Lippard ETC. The role of early life stress as a risk factor for substance use disorders. *Adversity and Resilience Science*, 2020. DOI: 10.1007/s42844-020-00005-7
- 16. Mankin, E. A., Aghajan, Z. M., Schuette, P., Tran, M. E., Tchemodanov, N., Titiz, A., Kalender, G., Eliashiv, D., Stern, J., Weiss, S. A., **Kirsch, D.,** Knowlton, B., Fried, I. and Suthana, N. Stimulation of the right entorhinal white matter enhances visual memory encoding in humans. *Brain Stimulation*, 2022. DOI: 10.1016/j.brs.2020.11.015
- 17. **Kirsch DE**, Visnagra L, and Silverman D. Brain PET in the evaluation of cognitive function and dysfunction. *Internal Medicine Review*, 2017. DOI: 10.18103/imr.v3i6.466

## **Books & Chapters**

- 1. **Kirsch DE**, Tretyak V, Strakowski SM, and Lippard ETC. Chapter 3: Functional brain imaging in bipolar disorder: activation studies (2021). In: *The Bipolar Brain*, Second Edition (Ed: S.M. Strakowski).
- 2. **Kirsch DE** and Lippard ETC. Chapter 11: Genetics of bipolar disorder (2019). In: *Bipolar Disorder* (Eds: S. Strakowski, M. DelBellow, C. Adler, D. Fleck).
- 3. **Kirsch DE**, Belnap M, Kady A, and Ray LA. Alcohol Use Disorder in Women. In: Women & Health, 3<sup>rd</sup> Edition.

#### Peer-reviewed publications (under review/in revision)

1. **Kirsch DE**, Grodin EN, Ray LA. Characterizing alcohol cue reactive and non-reactive individuals with alcohol use disorder. (*in revision*)

## RESEARCH FUNDING

## **Active Research Support**

NIAAA F32AA031425 Kirsch (PI)

"A clinical neuroscience approach to understand stress coping in alcohol use disorder"

This study will assess the psychological experience of chronic stress and dynamic functional connectivity within the brain's stress coping network in a clinical sample with alcohol use disorder (AUD) and matched controls.

Role: PI Project Period: 02/2024 - Present

#### **Completed Research Support**

NIDA T32DA024635 Ray and Wassum (Pls)

"UCLA Training Program in the Translational Neuroscience of Drug Abuse (TNDA)"

The purpose of this postdoctoral grant is to provide trainees with the integrative knowledge base needed to conduct bidirectional translational studies including cutting-edge technical laboratory methods, computational approaches in data evaluation, and issues related to ethical treatment of human subjects.

Role: Trainee. Project Period: 01/2023 – 01/2024

NIAAA F31AA029005 Kirsch (PI)

"Ventral Prefrontal Network Connectivity and Alcohol Sensitivity in Bipolar Disorder and Typically Developing Young Adults"

This study used placebo-controlled alcohol administration and structural and functional fMRI methods to examine neurobiological mechanisms that underlie altered subjective response to alcohol in bipolar disorder.

Role: PI

Project Period: 09//2022 – 01/2023

University of Texas at Austin

Graduate Dean's Prestigious Fellowship Supplement

Role: PI Project Period: 09//2022 – 12//2022

Waggoner Center for Alcohol & Addiction Research, University of Texas at Austin

Messing (PI)

Fred Murphy Jones & Homer Lindsey Bruce Endowed Fellowships

This purpose of this fellowship is to support graduate students training in alcohol and addiction research.

Role: Trainee Project Period: 08//2018 – 08//2022

# FELLOWSHIPS, AWARDS & HONORS

NIAAA Post-doctoral National Research Service Award (NRSA), F32AA031425	2024
NIDA T32 Training Grant Fellow, Translational Neuroscience of Drug Abuse, T32DA024635	2023
Graduate Dean's Prestigious Fellowship Supplement, University of Texas at Austin	2022
NIAAA Pre-doctoral National Research Service Award (NRSA), F31AA029005	2022
Enoch Gordis Research Recognition Award – Finalist, Research Society on Alcoholism	2022
Research Society on Alcoholism Graduate Student Small Grants Program Finalist	2021
Society of Biological Psychiatry Chair's Choice Travel Award Recipient	2020
Texas Research Society on Alcoholism Travel Award Recipient	2019
Waggoner Center for Alcohol & Addiction Research, Fred Murphy Jones & Homer Lindsey Bruce Jones	
Endowed Fellowship	2018 - 2022
,	2014 - 2016
U.S. Tennis Association (USTA) Southern California National Sportsmanship Award	2011

# PRESENTATIONS, POSTERS & ABSTRACTS

#### **Invited Presentations**

#### Symposium, Speaker

June 2023

Research Society on Alcohol, Bellevue WA

Symposium Title: Associations among externalizing characteristics and alcohol responses as predictors and correlates of alcohol problems

Organizer/Chair: Marc A Schickit, M.D.

Presentation: Examining internalizing and externalizing behaviors as moderators of subjective response to alcohol in the human laboratory

## Symposium Speaker

June 2023

Southern California Substance Addiction Research Training Retreat

Symposium Title: Highlights of Clinical/Translational Neuroscience/Drug Addiction Research

Presentation: Revisiting the neural substrates of alcohol cue-reactivity: Does drink preference matter?

# **Enoch Gordis Research Recognition Awards – Paper Session – Students**

June 2022

Research Society on Alcoholism, Orlando, FL

"Placebo Alcohol Administration is Associated with Changes in Ventral Prefrontal Network Resting State Functional Connectivity"

### Symposium, Introduction Speaker

June 2022

Research Society on Alcoholism, Orlando FL

Symposium Title: At the Crossroads of Affective Disorders and Alcohol Use Disorders: Neural

Transmission, Subjective and Neural Response to Alcohol, and Role(s) of Stress

Organizer/Chair: Elizabeth Lippard, Ph.D.

Lipaprd ETC, **Kirsch DE**, Le V, Remmers B, Routh B, Kosted R, Tretyak V, Almeida JRC, Fromme K, Strakowski SM

Neural and Subjective Response to Alcohol in Young Adults with Bipolar Disorder

Kirsch DE January 2022

The "Institute for Neuroscience Dialogue" Seminar, University of Texas, Austin TX

"Sensitivity to Alcohol: Exploring the Role of Placebo Using fMRI"

Panelist November 2021

UT Brainstorms: A conversation on the brain

"The Open Brain: A Conversation About How Cloud Technologies Help Advance Basic and Clinical

Science"

Organizer: Franco Pestilli, Ph.D.

Kirsch DE June 2021

Waggoner Center for Alcohol and Addiction Research Seminar, University of Texas, Austin, TX

"Neuroimaging to Understand Risk for Alcohol Use in Young Adulthood and Impact of Bipolar Disorder"

Kirsch DE March 2021

8<sup>th</sup> Annual Waggoner Center for Alcohol and Addiction Research Advance, University of Texas, Austin, TX "Anterior Cingulate Cortex, Alcohol Use and Sensation Seeking Trajectories in Young Adulthood"

Kirsch DE July 2019

Waggoner Center for Alcohol and Addiction Research Seminar, University of Texas, Austin, TX "Dissecting Risk and Associated Neural Structure and Function in Bipolar Disorder: Familial Risk, Childhood Maltreatment, and Alcohol Use"

#### **Conference Posters**

Kirsch DE, Ray LA, Wassum K, Grodin EN

December 2023

American College of Neuropsychopharmacology, Tampa FL

Reward system alcohol cue reactivity varies as a function of drink preference in alcohol use disorder

Grodin EN, Kirsch DE, Belnap MA, Ray LA

December 2023

American College of Neuropsychopharmacology, Tampa FL

Sex differences in neural response to an acute stressor in individuals with an alcohol use disorder.

Lippard ETC, **Kirsch DE**, Kosted R, Le V, Fromme K

June 2023

Research Society on Alcoholism, Bellevue WA

Alcohol expectancies and placebo beverage-related changes in subcallosal cortex functional connectivity in young adults with bipolar disorder

Kosted R, Kirsch DE, Le V, Fromme K, Lippard ETC

June 2023

Research Society on Alcoholism, Bellevue WA

Subjective response to alcohol: interactive effects of early life stress, parental risk for mood and substance use disorders, and drinking context

Meek K, Kirsch DE, Kosted R, Le V, Lippard ETC

June 2023

Research Society on Alcoholism, Bellevue WA

Orbitofrontal surface area and cortical thickness relates to subjective response to alcohol in young adults with bipolar disorder

Lippard ETC, Li M, Le V, Kosted R, Kirsch DE

June 2022

International Behavioral Neuroscience Society, Glasgow, Scotland

Alcohol-induced Changes in Decision Making and Neural Response to Negative Affect in Young Adults with Bipolar Disorder

Kirsch DE\*, Le V, Huffman A, Li M, and Lippard ETC

June 2022

Research Society on Alcoholism, Orlando, FL

Placebo Alcohol Administration is Associated with Changes in Ventral Prefrontal Network Resting State Functional Connectivity. \*Enoch Gordis Research Recognition Award - Finalist

Kosted R, Le V, **Kirsch DE**, Almeida JRC, Strakowski SM, Fromme K, Lippard ETC

June 2022

Research Society on Alcoholism, Orlando FL

Parental Risk for Alcohol Use Disorders is Associated with Altered Transdermal Alcohol Elimination Rate and Subjective Response to Alcohol in Young Adult Offspring

**Kirsch DE**, Le V, Tretyak V, Almeida JRC, Fromme K, Strakowski SM, Lippard ETC

April 2022

Society of Biological Psychiatry, New Orleans, LA

Ventral Prefrontal Network Functional Connectivity and Alcohol Sensitivity in Young Adults with Bipolar Disorder

Le V, Tretyak V, Kirsch DE, Kosted R, Strakowski SM, Lippard ETC

April 2022

Society of Biological Psychiatry, New Orleans, LA

Recent Perceived Stress and Decision Making in Young Adults with Bipolar Disorder and Psychotic Features

Lippard ETC, Dasgupta A, Huffman A, Le V, **Kirsch DE**, Strakowski SM, Almeida JRC

April 2022

Society of Biological Psychiatry, New Orleans, LA

Changes in Mood Symptoms and Perceived Stress and Relations with Subjective Response to Alcohol in Adults with Bipolar Disorder

Kosted R, Le V, Kirsch DE, Tretyak V, Lippard ETC

April 2022

Society of Biological Psychiatry, New Orleans, LA

Recent Eating Disturbance in Young Adults with Bipolar Disorder is Associated with Lower Hippocampal Gray Matter Volume

Kirsch DE, Tretyak V, Le V, Fromme K, Lippard ETC

June 2021

Research Society on Alcoholism, Virtual Conference

Anterior Cinqulate Cortex Function is Associated with Alcohol Use Trajectories in Young Adulthood.

Tretyak V, Claborn K, Conway FN, Bond DE, **Kirsch DE**, Le V, Fromme K, Lippard ETC

June 2021

Research Society on Alcoholism, Virtual Conference

Alcohol Use During the COVID-19 Pandemic: Role of Recent Perceived Distress and Coping Drinking Motives in Individuals Who Use Drugs.

Kirsch DE, Tretyak V, Le V, Fromme K, Strakowski SM, Lippard ETC

May 2021

Society of Biological Psychiatry, Virtual Conference

Anterior Cingulate Cortex Reactivity to Emotional Stimuli Relates to Prospective Changes in Alcohol Use in Bipolar Disorder.

Tretyak V, **Kirsch DE**, Le V, Fromme K, Strakowski SM, Lippard ETC

May 2021

Society of Biological Psychiatry, Virtual Conference

Neural Functional Connectivity during Emotional Processing in Bipolar Disorder: Relations with Coping Drinking Motives and Alcohol Use.

Le V, Kirsch DE, Tretyak V, Strakowski SM, Lippard ETC

May 2021

Society of Biological Psychiatry, Virtual Conference

Recent Perceived Stress, Amygdala Reactivity to Acute Psychosocial Stress, and Alcohol Use in Adolescents/Young Adults with Bipolar Disorder.

Kirsch DE, Tretyak V, Le V, Fromme K, Lippard ETC

June 2020

Research Society on Alcoholism, New Orleans, LA; event canceled due to COVID-19

Prefrontal gray matter volume relates to subsequent changes in alcohol use in college age social drinkers.

Tretyak V, Kirsch DE, Le V, Fromme K, Lippard ETC

June 2020

Research Society on Alcoholism, New Orleans, LA; event canceled due to COVID-19 Neural correlates of drinking motives in typically developing young adults.

Kirsch DE\*, Tretyak V, Le V, Strakowski SM, Lippard ETC

May 2020

Society of Biological Psychiatry, New York, NY; event canceled due to COVID-19

Perceived stress and salience network functioning during emotional processing in young adults with bipolar disorder. \*Chair's Choice Travel Award

Lippard ETC, Le V, **Kirsch DE**, Tretyak V, Weber W, Strakowski SM.

May 2020

Society of Biological Psychiatry, New York, NY

Neurophysiological responses to stress, interactions with recent stress, and associated externalizing behavior in emerging adults with bipolar disorder.

Symposium title: Bipolar Disorder is more than a disorder of mood: exploring peripheral indicators and their neural associations. \*event canceled due to COVID-19

Tretyak V, **Kirsch DE,**...., Fromme K, Nemeroff CB, Strakowski SM, Lippard ETC Society of Biological Psychiatry, New York, NY; event canceled due to COVID-19

May 2020

Neural reactivity to negatively valenced stimuli in young adults with bipolar disorder and a history of bullying victimization.

Preston A, Tretyak V, **Kirsch DE**, Le V, Weber W, Strakowski SM, and Lippard ETC May 2020 Society of Biological Psychiatry, New York, NY; event canceled due to COVID-19 Neural functional connectivity changes to psychological stress in young adults with bipolar disorder.

Le V, Tretyak V, **Kirsch DE**, Preston A, Strakowski SM, and Lippard ETC May 2020 Society of Biological Psychiatry, New York, NY; event canceled due to COVID-19 Lower grey matter volume and emotion regulation in young adults with bipolar disorder and a history of psychosis.

Board S, **Kirsch DE**, Tretyak V, Weber W, Strakowski SM, Nemeroff CB, Lippard ETC March 2020 Anxiety and Depression Conference (ADAA), San Antonio, TX \* event canceled due to COVID-19 Childhood maltreatment associated alterations in neural activation during emotional and attention processing in emerging typically developing adults.

Kirsch DE, Tretyak V, Radpour S, Weber WA, Strakowski SM, Lippard ETC

June 2019

Research Society on Alcoholism. Minneapolis, MN

Childhood Maltreatment and Associated Prefrontal-Paralimbic Gray Matter Volume and Alcohol Use in Adolescents/Young Adults with Familial Risk for Bipolar Disorder.

Lippard ETC, Radpour S, Tretyak V, **Kirsch DE**, Weber W, Strakowski SM.

June 2019

Research Society on Alcoholism. Minneapolis, MN

Neural responses to stress and associated alcohol use in young adults with bipolar disorder.

Kirsch DE, Tretyak V., Radpour S., Weber W.A., Strakowski S.M., Lippard ETC

May 2019

Society of Biological Psychiatry. Chicago, IL

Childhood maltreatment and associated prefrontal-paralimbic activity during emotional and cognitive processing in adolescents/young adults with familial risk for bipolar disorder.

Tretyak V, **Kirsch DE**, Radpour S, Weber WA, Strakowski SM, Fromme K., Lippard ETC Society of Biological Psychiatry. Chicago, IL

May 2019

Subjective response to alcohol in young adults with bipolar disorder and associated frontolimbic gray matter volume and alcohol use.

**Kirsch DE\*,** Tretyak V, Radpour S, Weber WA, Fromme K, Strakowski SM, Lippard ETC February 2019 Texas Research Society on Alcoholism. San Antonio, TX

Childhood Maltreatment and Associated Prefrontal-Paralimbic Gray Matter Volume and Alcohol Use in Adolescents/Young Adults with Familial Risk for Bipolar Disorder.

\*Travel Award

**Kirsch DE**, Strakowski SM, Radpour S, Weber W, Lippard ETC

Texas Research Society on Alcoholism. & Waggoner Center Advance. Austin, TX

Neural correlates of anxiety symptoms in individuals at-risk for bipolar disorder and associated alcohol use.

Silverman D, **Kirsch DE**, Visnagra K, Zhang, S, Dahlbom M.

June 2017

Alzheimer's Association Conference. London, England

Intra- versus inter-observer concordance in dopamine transport SPECT scans for examination of extrapyramidal parkinsonian syndromes.

## **TEACHING EXPERIENCE**

## **Psychology of Addiction (PSY162)**

Summer 2023

Instructor

- 6-week online course on the psychological and neurobiological theories of addiction, pharmacological effects of drugs and abuse, etiology assessments, diagnosis, and treatment.
- Taught 2 discussion sections (1 hour each; 35 students per section); developed lecture and discussion section content

## Neurobiology of Addiction (NEU365W)

Spring 2020

Teaching Assistant

Professor: Robert Messing, M.D.

Led a class lecture and four in class review sessions; held weekly office hours; drafted exam questions;
 graded exams

## **NeuroPET Preceptorship**

2016 - 2017

Instructor

- Two-day course to familiarize healthcare professionals with the current state of brain PET and its application to the diagnosis of neurosurgical/neurologic and psychiatric disease
- Coordinated Preceptorships; trained participants in the use of NeuroQ Software for brain imaging analysis

## MENTORING EXPERIENCE

#### **University of California, Los Angeles Undergraduate Students:**

Research Mentor to Lianyan (Julia) Zhou: Psychology 196A: Research Apprenticeship, 199A: Directed Independent Research in Psychology

Research Mentor to Jillian Hood

#### **University of Texas at Austin Undergraduate Students:**

<u>Graduate Research Mentor</u> to Raquel Kosted: Department of Neuroscience, Honors Thesis: Depression and Alcohol Use in Young Adults during the COVID-19 Pandemic and Relations with Insula Structure\*
\*Selected for publication in Texas Undergraduate Research Journal, 2021

<u>Graduate Research Mentor</u> to Staci Board: Department of Psychology, Honors Thesis: Childhood Maltreatment and Associated Prefrontal-Paralimbic Function During Emotional Processing in Young Adults with Bipolar Disorder

<u>Graduate Research Mentor</u> to Illan Kunik: Department of Psychology, Project Title: Familial Risk for Suicide and Associated Behavior and Prefrontal-Paralimbic Activity in Young Adults with Familial Risk for Bipolar Disorder

Graduate Research Mentor to Ansley Huffman

Graduate Research Mentor to Mary Li

Graduate Research Mentor to Abby Dasgupta

## **Neuroscience Undergraduate Reading Program**

2019 - 2020

University of Texas at Austin

Graduate Student Mentor

• The program pairs an undergraduate student with a graduate student mentor to facilitate study (i.e., paper discussions and presentation preparation) in an area of the graduate student mentor's area of study.

## PROFESSIONAL MEMBERSHIPS

Research Society on Alcoholism Society of Biological Psychiatry

## PROFESSIONAL SERVICES

#### Ad-Hoc Reviewer

The Journal of the American Medical Association Psychiatry Drug and Alcohol Dependence Frontiers in Neuroendocrinology Addictive Behavior Reports

## IN THE MEDIA

"Why Do I Feel Buzzed from Nonalcoholic Beers?" in Slate Magazine (January 2024) https://slate.com/technology/2024/01/nonalcoholic-beer-tipsy-effects-dry-january-ideas.html