

# Curriculum Vitae

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### PROFESSIONAL EXPERIENCE

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- 2023 – **Adjunct Assistant Professor**, Department of Psychiatry, University of California, Los Angeles
- 2023 - **Faculty Member**, Brain Research Institute, University of California Los Angeles
- 2023 - **Faculty Member**, Cousins Center for Psychoneuroimmunology, University of California Los Angeles
- 2021 – 2023 **Associate Project Scientist**, Department of Psychology, University of California, Los Angeles, Addictions Laboratory, Mentor: Dr. Lara A. Ray
- 2018 – 2021 **Postdoctoral Scholar**, Department of Psychology, University of California, Los Angeles, Addictions Laboratory, Mentor: Dr. Lara A. Ray
- 2010 – 2012 **Postbaccalaureate Intermural Research Training Award Fellow**, National Institute on Alcohol Abuse and Alcoholism, Section on Brain Electrophysiology and Imaging, Mentor: Dr. Daniel Hommer

### EDUCATION

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- 2012 – 2018 **Doctor of Philosophy in Neuroscience**, Brown University and the National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism, Clinical Neuroimaging Research Core, Mentors: Dr. Vijay Ramchandani and Dr. Reza Momenan
- 2006-2010 **Bachelor of Arts in Psychology**, American University  
Honors Research Thesis, Department of Psychology,  
Psychopharmacology Lab, Mentor: Anthony Riley

### PEER-REVIEWED PUBLICATIONS

Citations: 2,222; H-index: 26 (Google Scholar, accessed November 2025)

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1. **Grodin EN**, Lin H, Durkee CA, Hommer DW, Momenan R. Deficits in cortical, diencephalic and midbrain gray matter in alcoholism measured by VBM: Effects of co-morbid substance abuse. *Neuroimage Clin.* 2013 Apr 1;2:469-76. doi: 10.1016/j.nicl.2013.03.013. PMID: 24179800; PMCID: PMC3777684.
2. **Grodin EN**, White TL. The neuroanatomical delineation of agentic and affiliative extraversion. *Cogn Affect Behav Neurosci.* 2015 Jun;15(2):321-34. doi: 10.3758/s13415-014-0331-6. PMID: 25712871; PMCID: PMC4825324.
3. **Grodin EN**, Momenan R. Decreased subcortical volumes in alcohol dependent individuals: effect of polysubstance use disorder. *Addict Biol.* 2017 Sep;22(5):1426-1437. doi: 10.1111/adb.12421. Epub 2016 Jun 23. PMID: 27334243; PMCID: PMC5182196.

4. **Grodin EN**, Steckler LE, Momenan R. Altered Striatal Response During Effort-Based Valuation and Motivation in Alcohol-Dependent Individuals. *Alcohol Alcohol*. 2016 Nov;51(6):638-646. doi: 10.1093/alcalc/agw003. Epub 2016 Feb 17. PMID: 26893259; PMCID: PMC5091291.
5. Kwako LE, Momenan R, **Grodin EN**, Litten RZ, Koob GF, Goldman D. Addictions Neuroclinical Assessment: A reverse translational approach. *Neuropharmacology*. 2017 Aug 1;122:254-264. doi: 10.1016/j.neuropharm.2017.03.006. Epub 2017 Mar 7. PMID: 28283392; PMCID: PMC5569299.
6. **Grodin EN**, Cortes CR, Spagnolo PA, Momenan R. Structural deficits in salience network regions are associated with increased impulsivity and compulsivity in alcohol dependence. *Drug Alcohol Depend*. 2017 Oct 1;179:100-108. doi: 10.1016/j.drugalcdep.2017.06.014. Epub 2017 Jul 22. PMID: 28763777.
7. Cortes CR, **Grodin EN**, Mann CL, Mathur K, Kerich M, Zhu X, Schwandt M, Diazgranados N, George DT, Momenan R, Heilig M. Insula Sensitivity to Unfairness in Alcohol Use Disorder. *Alcohol Alcohol*. 2018 May 1;53(3):201-208. doi: 10.1093/alcalc/agx115. PMID: 29309499; PMCID: PMC6075077.
8. **Grodin EN**, Sussman L, Sundby K, Brennan GM, Diazgranados N, Heilig M, Momenan R. Neural Correlates of Compulsive Alcohol Seeking in Heavy Drinkers. *Biol Psychiatry Cogn Neurosci Neuroimaging*. 2018 Dec;3(12):1022-1031. doi: 10.1016/j.bpsc.2018.06.009. Epub 2018 Jul 9. PMID: 30143454.
9. Farokhnia M, **Grodin EN**, Lee MR, Oot EN, Blackburn AN, Stangl BL, Schwandt ML, Farinelli LA, Momenan R, Ramchandani VA, Leggio L. Exogenous ghrelin administration increases alcohol self-administration and modulates brain functional activity in heavy-drinking alcohol-dependent individuals. *Mol Psychiatry*. 2018 Oct;23(10):2029-2038. doi: 10.1038/mp.2017.226. Epub 2017 Nov 14. PMID: 29133954.
10. Ray LA, Bujarski S, **Grodin EN**, Hartwell E, Green R, Venegas A, Lim AC, Gillis A, Miotto K. State-of-the-art behavioral and pharmacological treatments for alcohol use disorder. *Am J Drug Alcohol Abuse*. 2019;45(2):124-140. doi: 10.1080/00952990.2018.1528265. Epub 2018 Oct 29. PMID: 30373394; PMCID: PMC6430676.
11. **Grodin EN**, Ray LA, MacKillop J, Lim AC, Karno MP. Elucidating the Effect of a Brief Drinking Intervention Using Neuroimaging: A Preliminary Study. *Alcohol Clin Exp Res*. 2019 Feb;43(2):367-377. doi: 10.1111/acer.13941. Epub 2019 Jan 20. PMID: 30556913; PMCID: PMC6370530.
12. Green R, **Grodin EN**, Lim AC, Venegas A, Bujarski S, Krull J, Ray LA. The Interplay Between Subjective Response to Alcohol, Craving, and Alcohol Self-Administration in the Human Laboratory. *Alcohol Clin Exp Res*. 2019 May;43(5):907-915. doi: 10.1111/acer.14001. Epub 2019 Apr 12. PMID: 30860603; PMCID: PMC6519957.
13. Fede SJ, **Grodin EN**, Dean SF, Diazgranados N, Momenan R. Resting state connectivity best predicts alcohol use severity in moderate to heavy alcohol users. *Neuroimage Clin*. 2019;22:101782. doi: 10.1016/j.nicl.2019.101782. Epub 2019 Mar 19. PMID: 30921611; PMCID: PMC6438989.
14. **Grodin EN**, Courtney KE, Ray LA. Drug-Induced Craving for Methamphetamine Is Associated With Neural Methamphetamine Cue Reactivity. *J Stud Alcohol Drugs*. 2019 Mar;80(2):245-251. doi: 10.15288/jsad.2019.80.245. PMID: 31014470; PMCID: PMC6489542.
15. Lim AC, Ghahremani DG, **Grodin EN**, Green R, Bujarski S, Hartwell EE, Courtney KE, Hutchison K, Miotto K, Ray LA. Neuroimaging findings from an experimental pharmacology trial of naltrexone in heavy drinkers of East Asian descent. *Drug Alcohol Depend*. 2019 Jul 1;200:181-190. doi: 10.1016/j.drugalcdep.2019.02.028. Epub 2019 May 9. PMID: 31160146; PMCID: PMC6760244.

16. **Grodin EN**, Lim AC, MacKillop J, Karno MP, Ray LA. An Examination of Motivation to Change and Neural Alcohol Cue Reactivity Following a Brief Intervention. *Front Psychiatry*. 2019 Jun 11;10:408. doi: 10.3389/fpsy.2019.00408. PMID: 31244697; PMCID: PMC6580427.
17. Lee MR, Shin JH, Deschaine S, Daurio AM, Stangl BL, Yan J, Ramchandani VA, Schwandt ML, **Grodin EN**, Momenan R, Corral-Frias NS, Hariri AR, Bogdan R, Alvarez VA, Leggio L. A role for the CD38 rs3796863 polymorphism in alcohol and monetary reward: evidence from CD38 knockout mice and alcohol self-administration, [11C]-raclopride binding, and functional MRI in humans. *Am J Drug Alcohol Abuse*. 2020;46(2):167-179. doi: 10.1080/00952990.2019.1638928. Epub 2019 Jul 31. PMID: 31365285.
18. **Grodin EN**, Ray LA. The Use of Functional Magnetic Resonance Imaging to Test Pharmacotherapies for Alcohol Use Disorder: A Systematic Review. *Alcohol Clin Exp Res*. 2019 Oct;43(10):2038-2056. doi: 10.1111/acer.14167. Epub 2019 Aug 23. PMID: 31386215; PMCID: PMC6779480.
19. Burnette EM, **Grodin EN**, Lim AC, MacKillop J, Karno MP, Ray LA. Association between impulsivity and neural activation to alcohol cues in heavy drinkers. *Psychiatry Res Neuroimaging*. 2019 Nov 30;293:110986. doi: 10.1016/j.psychres.2019.110986. Epub 2019 Sep 23. PMID: 31622796; PMCID: PMC7238761.
20. **Grodin EN**, Bujarski S, Venegas A, Baskerville WA, Nieto SJ, Jentsch JD, Ray LA. Reward, Relief and Habit Drinking: Initial Validation of a Brief Assessment Tool. *Alcohol Alcohol*. 2019 Dec 1;54(6):574-583. doi: 10.1093/alcalc/agz075. PMID: 31557278; PMCID: PMC7306183.
21. Ray LA, Du H, **Grodin EN**, Bujarski S, Meredith L, Ho D, Nieto S, Wassum K. Capturing habitualness of drinking and smoking behavior in humans. *Drug Alcohol Depend*. 2020 Feb 1;207:107738. doi: 10.1016/j.drugalcdep.2019.107738. Epub 2019 Nov 14. PMID: 31816490; PMCID: PMC8063853.
22. Nieto SJ, **Grodin EN**, Ray LA. On the path towards personalized medicine: Implications of pharmacogenetic studies of alcohol use disorder medications. *Expert Rev Precis Med Drug Dev*. 2020;5(1):43-54. doi: 10.1080/23808993.2020.1724510. Epub 2020 Feb 10. PMID: 34291172; PMCID: PMC8291052.
23. Fede SJ, Abrahao KP, Cortes CR, **Grodin EN**, Schwandt ML, George DT, Diazgranados N, Ramchandani VA, Lovinger DM, Momenan R. Alcohol effects on globus pallidus connectivity: Role of impulsivity and binge drinking. *PLoS One*. 2020 Mar 26;15(3):e0224906. doi: 10.1371/journal.pone.0224906. PMID: 32214339; PMCID: PMC7098584.
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- Administration. *Alcohol Clin Exp Res*. 2020 Jun;44(6):1224-1233. doi: 10.1111/acer.14342. Epub 2020 May 14. PMID: 32406553; PMCID: PMC7336863.
28. **Grodin EN**, Nguyen XT, Ho D, Bujarski S, Ray LA. Sensitivity and specificity of a commercial urinary ethyl glucuronide (ETG) test in heavy drinkers. *Addict Behav Rep*. 2020 Jan 17;11:100249. doi: 10.1016/j.abrep.2020.100249. PMID: 32467838; PMCID: PMC7244915.
  29. **Grodin EN**, Montoya AK, Bujarski S, Ray LA. Modeling motivation for alcohol in humans using traditional and machine learning approaches. *Addict Biol*. 2021 May;26(3):e12949. doi: 10.1111/adb.12949. Epub 2020 Jul 29. PMID: 32725863.
  30. Burnette EM, Baskerville WA, **Grodin EN**, Ray LA. Ibudilast for alcohol use disorder: study protocol for a phase II randomized clinical trial. *Trials*. 2020 Sep 11;21(1):779. doi: 10.1186/s13063-020-04670-y. PMID: 32912290; PMCID: PMC7488583.
  31. **Grodin EN**, Green RJ, Ray LA. An Exploratory Factor Analysis of the Stimulant, Sedative, and Affective Responses to Alcohol. *Alcohol Clin Exp Res*. 2020 Nov;44(11):2298-2306. doi: 10.1111/acer.14458. Epub 2020 Oct 16. PMID: 32944932.
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  34. Nieto SJ, Green R, **Grodin EN**, Cahill CM, Ray LA. Pain catastrophizing predicts alcohol craving in heavy drinkers independent of pain intensity. *Drug Alcohol Depend*. 2021 Jan 1;218:108368. doi: 10.1016/j.drugaldep.2020.108368. Epub 2020 Oct 20. PMID: 33143942; PMCID: PMC7750265.
  35. Burnette EM, **Grodin EN**, Ghahremani DG, Galván A, Kohno M, Ray LA, London ED. Diminished cortical response to risk and loss during risky decision making in alcohol use disorder. *Drug Alcohol Depend*. 2021 Jan 1;218:108391. doi: 10.1016/j.drugaldep.2020.108391. Epub 2020 Nov 1. PMID: 33153830; PMCID: PMC7750289.
  36. Ho D, Towns B, **Grodin EN**, Ray LA. A novel human laboratory model for screening medications for alcohol use disorder. *Trials*. 2020 Nov 23;21(1):947. doi: 10.1186/s13063-020-04842-w. PMID: 33225963; PMCID: PMC7681966.
  37. Ray LA, **Grodin EN**. Clinical Neuroscience of Addiction: What Clinical Psychologists Need to Know and Why. *Annu Rev Clin Psychol*. 2021 May 7;17:465-493. doi: 10.1146/annurev-clinpsy-081219-114309. Epub 2021 Jan 20. PMID: 33472009.
  38. Burnette EM, **Grodin EN**, Eisenberger NI, Ray LA. Endotoxin for Alcohol Research: A Call for Experimental Medicine Using Lipopolysaccharide Challenge. *Alcohol Alcohol*. 2021 Oct 29;56(6):715-717. doi: 10.1093/alcalc/agaa148. PMID: 33592623; PMCID: PMC8557676.
  39. Nieto SJ, **Grodin EN**, Green R, Ray LA. Evaluation of the Addictions Neuroclinical Assessment (ANA) framework through deep phenotyping of problem drinkers. *Drug Alcohol Depend*. 2021 Apr 1;221:108603. doi: 10.1016/j.drugaldep.2021.108603. Epub 2021 Feb 13. PMID: 33618192; PMCID: PMC8026564.
  40. Meredith LR, Green R, **Grodin EN**, Chorpita M, Miotto K, Ray LA. Ibudilast moderates the effect of mood on alcohol craving during stress exposure. *Exp Clin Psychopharmacol*. 2022 Oct;30(5):620-631. doi: 10.1037/pha0000458. Epub 2021 Apr 22. PMID: 36102596; PMCID: PMC9484034.
  41. Ray LA, Green R, Enders C, Leventhal AM, **Grodin EN**, Li G, Lim A, Hartwell E, Venegas A, Meredith L, Nieto SJ, Shoptaw S, Ho D, Miotto K. Efficacy of Combining Varenicline and Naltrexone for Smoking Cessation and Drinking Reduction: A

- Randomized Clinical Trial. *Am J Psychiatry*. 2021 Sep 1;178(9):818-828. doi: 10.1176/appi.ajp.2020.20070993. Epub 2021 Jun 3. PMID: 34080890; PMCID: PMC8999864.
42. **Grodin EN**, Bujarski S, Towns B, Burnette E, Nieto S, Lim A, Lin J, Miotto K, Gillis A, Irwin MR, Evans C, Ray LA. Ibudilast, a neuroimmune modulator, reduces heavy drinking and alcohol cue-elicited neural activation: a randomized trial. *Transl Psychiatry*. 2021 Jun 12;11(1):355. doi: 10.1038/s41398-021-01478-5. PMID: 34120149; PMCID: PMC8197758.
  43. Green R, Du H, **Grodin EN**, Nieto SJ, Bujarski S, Roche DJO, Ray LA. A meta-regression of methodological features that predict the effects of medications on the subjective response to alcohol. *Alcohol Clin Exp Res*. 2021 Jul;45(7):1336-1347. doi: 10.1111/acer.14643. Epub 2021 Jul 5. PMID: 34120356; PMCID: PMC9098140.
  44. **Grodin EN**, Burnette EM, Green R, Lim AC, Miotto K, Ray LA. Combined varenicline and naltrexone attenuates alcohol cue-elicited activation in heavy drinking smokers. *Drug Alcohol Depend*. 2021 Aug 1;225:108825. doi: 10.1016/j.drugalcdep.2021.108825. Epub 2021 Jun 23. PMID: 34175784; PMCID: PMC9059649.
  45. Kisner MA, Sussman L, Manuweera T, **Grodin EN**, Fede SJ, Sarlls JE, Momenan R. Evaluating effects of sex and age on white matter microstructural alterations in alcohol use disorder: A diffusion tensor imaging study. *Alcohol Clin Exp Res*. 2021 Sep;45(9):1790-1803. doi: 10.1111/acer.14678. Epub 2021 Aug 18. PMID: 34342014; PMCID: PMC8526396.
  46. Meredith LR, Burnette EM, **Grodin EN**, Irwin MR, Ray LA. Immune treatments for alcohol use disorder: A translational framework. *Brain Behav Immun*. 2021 Oct;97:349-364. doi: 10.1016/j.bbi.2021.07.023. Epub 2021 Jul 31. PMID: 34343618; PMCID: PMC9044974.
  47. Meredith LR, **Grodin EN**, Karno MP, Montoya AK, MacKillop J, Lim AC, Ray LA. Preliminary study of alcohol problem severity and response to brief intervention. *Addict Sci Clin Pract*. 2021 Aug 24;16(1):54. doi: 10.1186/s13722-021-00262-6. PMID: 34429151; PMCID: PMC8386030.
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  49. Burnette EM, Ray LA, Irwin MR, **Grodin EN\***. Ibudilast attenuates alcohol cue-elicited frontostriatal functional connectivity in alcohol use disorder. *Alcohol Clin Exp Res*. 2021 Oct;45(10):2017-2028. doi: 10.1111/acer.14696. Epub 2021 Sep 29. PMID: 34585396; PMCID: PMC8602728.
- \*denotes senior author, mentored student-first author
50. Nieto SJ<sup>^</sup>, **Grodin EN**<sup>^</sup>, Aguirre CG, Izquierdo A, Ray LA. Translational opportunities in animal and human models to study alcohol use disorder. *Transl Psychiatry*. 2021 Sep 29;11(1):496. doi: 10.1038/s41398-021-01615-0. PMID: 34588417; PMCID: PMC8481537.
- <sup>^</sup>denotes equal contributions to this manuscript.
51. Nieto SJ, **Grodin EN**, Ho D, Baskerville WA, Ray LA. Moderators of subjective response to alcohol in the human laboratory. *Alcohol Clin Exp Res*. 2022 Mar;46(3):468-476. doi: 10.1111/acer.14783. Epub 2022 Feb 11. PMID: 35084054; PMCID: PMC9153269.
  52. Ekhtiari H, [...], **Grodin EN**, [...], Zilverstand A. A methodological checklist for fMRI drug cue reactivity studies: development and expert consensus. *Nat Protoc*. 2022 Mar;17(3):567-595. doi: 10.1038/s41596-021-00649-4. Epub 2022 Feb 4. PMID: 35121856; PMCID: PMC9063851.
  53. Burnette EM, Nieto SJ, **Grodin EN**, Meredith LR, Hurley B, Miotto K, Gillis AJ, Ray LA. Novel Agents for the Pharmacological Treatment of Alcohol Use Disorder. *Drugs*. 2022

- Feb;82(3):251-274. doi: 10.1007/s40265-021-01670-3. Epub 2022 Feb 8. PMID: 35133639; PMCID: PMC8888464.
54. **Grodin EN**, Donato S, Du H, Green R, Bujarski S, Ray LA. A Meta-Regression of Trial Features Predicting the Effects of Alcohol Use Disorder Pharmacotherapies on Drinking Outcomes in Randomized Clinical Trials: A Secondary Data Analysis. *Alcohol Alcohol*. 2022 Sep 10;57(5):589-594. doi: 10.1093/alcalc/agac004. PMID: 35229869; PMCID: PMC9465523.
  55. Meredith LR, **Grodin EN**, Montoya AK, Miranda R Jr, Squeglia LM, Towns B, Evans C, Ray LA. The effect of neuroimmune modulation on subjective response to alcohol in the natural environment. *Alcohol Clin Exp Res*. 2022 May;46(5):876-890. doi: 10.1111/acer.14821. Epub 2022 Apr 11. PMID: 35362101; PMCID: PMC10460619.
  56. Baskerville WA, **Grodin EN**, Venegas A, Ray LA. Global sleep quality is associated with tonic craving, but not cue-induced craving. *Addict Behav*. 2022 Oct;133:107372. doi: 10.1016/j.addbeh.2022.107372. Epub 2022 May 21. PMID: 35660858.
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  61. **Grodin EN**, Meredith LR, Burnette EM, Miotto K, Irwin MR, Ray LA. Baseline C-reactive protein levels are predictive of treatment response to a neuroimmune modulator in individuals with an alcohol use disorder: a preliminary study. *Am J Drug Alcohol Abuse*. 2023 May 4;49(3):333-344. doi: 10.1080/00952990.2022.2124918. Epub 2022 Oct 25. PMID: 36282988; PMCID: PMC10840759.
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- \*denotes senior author, co-mentored postdoctoral fellow as first-author
73. Nieto SJ, **Grodin EN**, Ray LA. Neural Correlates of the Addictions Neuroclinical Assessment (ANA) Incentive Salience Factor Among Individuals with Alcohol Use Disorder. *Behav Brain Res*. 2024 Feb 29:114926. doi: 10.1016/j.bbr.2024.114926. Epub ahead of print. PMID: 38431152.
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- studies. *Alcohol Clin Exp Res* (Hoboken). 2024 May 8. doi: 10.1111/acer.15338. Epub ahead of print. PMID: 38719790.
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  82. Kirsch DE, **Grodin EN**, Nieto SJ, Kady A, Ray LA. Early life stress is associated with greater negative emotionality and peripheral inflammation in alcohol use disorder. *Neuropsychopharmacology*. 2024 May 13. doi: 10.1038/s41386-024-01877-4. Epub ahead of print. PMID: 38740901.
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  87. McManus KR, Belnap M, Kirsch DE, Ray LA, **Grodin EN\***. Effects of alcohol and cannabis co-use on salience network resting state functional connectivity in individuals who drink alcohol heavily. *Drug Alcohol Depend*. 2025 Mar 1;268:112577. doi: 10.1016/j.drugalcdep.2025.112577. Epub 2025 Jan 30. PMID: 39929057.  
\*denotes senior author, co-mentored graduate student as first-author
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  91. Ray LA, Meredith LR, **Grodin EN**, Belnap MA, Nieto SJ, Baskerville WA, Donato S, Shoptaw SJ, Gillis AJ, Irwin MR, Miotto K, Enders CK. A Neuroimmune Modulator for Alcohol Use Disorder: A Randomized Clinical Trial. *JAMA Netw Open*. 2025 Apr 1;8(4):e257523. doi: 10.1001/jamanetworkopen.2025.7523. PMID: 40305022; PMCID: PMC12044506.

92. McManus KR, **Grodin EN**, Burnette E, Castillo Y, Miotto K, Irwin MR, Eisenberger N, Ray LA. Inflammatory endotoxin challenge in individuals with alcohol use disorder and controls. *Alcohol Clin Exp Res (Hoboken)*. 2025 Jun 1. doi: 10.1111/acer.70090. Epub ahead of print. PMID: 40451996.
93. **Grodin EN**, Kirsch DE, Nieto S, Belnap M, Castillo Y, Baker N, Wassum KM, Grant KA, Ray LA. The null effect of stress on cognitive flexibility in individuals with and without alcohol use disorder. *Drug Alcohol Depend*. 2025 Sep 1;274:112767. doi: 10.1016/j.drugalcdep.2025.112767. Epub 2025 Jun 24. PMID: 40609320.
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96. Kirsch DE, Ho TC, Wassum KM, Ray LA, **Grodin EN\***. Inflexible Orbitofrontal Cortex Functional Connectivity From Rest to Acute Stress in Alcohol Use Disorder. *Addict Biol*. 2025 Aug;30(8):e70083. doi: 10.1111/adb.70083. PMID: 40820466.  
\*denotes senior author, co-mentored postdoctoral fellow as first-author
97. Kirsch DE, McManus KR, **Grodin EN**, Nieto SJ, Miranda R Jr, O'Malley SS, Schacht JP, Ray LA. Who is alcohol cue-reactive? A machine learning approach. *Alcohol Alcohol*. 2025 Jul 16;60(5):agaf052. doi: 10.1093/alcalc/agaf052. PMID: 40838757; PMCID: PMC12368849.
98. Meredith LR, **Grodin EN**, Enders CK, Ray LA. Variations in alcohol craving and negative mood during a clinical trial of ibudilast for alcohol use disorder. *Alcohol Clin Exp Res (Hoboken)*. 2025 Oct 2. doi: 10.1111/acer.70178. Epub ahead of print. PMID: 41039752.
99. Kirsch DE, **Grodin EN**, Leggio L, McKee SA, Meredith LR, Mereish EH, Miranda R Jr, Nieto SJ, O'Malley SS, Schacht JP, Ray LA. The alcohol cue-exposure paradigm as a screening tool for alcohol use disorder medication development: A critical review. *Alcohol Clin Exp Res (Hoboken)*. 2025 Sep 29. doi: 10.1111/acer.70170. Epub ahead of print. PMID: 41017297.
100. **Grodin EN**, Baskerville W, Ray LA. Craving mediates the relationship between sleep quality and impaired control over drinking: A Preliminary Study. *Drug and Alcohol Dependence Reports*. 2025 Sep 23. doi: 10.1016/j.dadr.2025.100384.
101. Nieto SJ, **Grodin EN**, Ray LA. Ibudilast attenuates the association between pain intensity and heavy drinking in alcohol use disorder: A secondary analysis of a randomized clinical trial. *Alcohol*. 2025 Oct 12;129:145-149. doi: 10.1016/j.alcohol.2025.10.004. Epub ahead of print. PMID: 41086998.
102. McManus K, Enders C, Kirsch DE, Belnap M, **Grodin EN\***, Ray LA\*. Peripheral inflammation mediates the relationship between early life stress and alcohol use. *Psychopharmacology*, accepted.  
\* = Co-senior authors, co-mentored graduate student as first-author.

## Peer-Reviewed Editorials and Commentaries

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1. Ray LA, Green R, **Grodin EN**. Neurobiological Models of Alcohol Use Disorder in Humans. *Am J Psychiatry*. 2021 Jun;178(6):483-484. doi: 10.1176/appi.ajp.2021.21030310. PMID: 34154380.
2. **Grodin EN**, Donato S, Du H, Green R, Bujarski S, Ray LA. Response to Letter to the Editors regarding 'A Meta-Regression of Trial Features Predicting the Effects of Alcohol Use

Disorder Pharmacotherapies on Drinking Outcomes in Randomized Clinical Trials: A Secondary Data Analysis'. *Alcohol Alcohol*. 2023 Nov 11;58(6):690-691. doi: 10.1093/alcal/agad066. PMID: 37794750; PMCID: PMC10642604.

3. **Grodin EN**, Kady A, Ray LA. The future of reward and relief drinking profiles: Considerations for social motives, stability of profiles, and tailored interventions. *Alcohol Clin Exp Res (Hoboken)*. 2024 Jan 18. doi: 10.1111/acer.15269. Epub ahead of print. PMID: 38238020.
4. **Grodin EN**. Considerations for understanding the neurobiology of pathological alcohol choice preference: Commentary on Perini, Karlsson, McIntyre, Heilig-"Neural correlates of choosing alcohol over palatable food reward in humans". *Alcohol Clin Exp Res (Hoboken)*. 2025 Mar 16. doi: 10.1111/acer.70026. Epub ahead of print. PMID: 40091156.
5. **Grodin EN**, McManus K. Embracing the complexity of alcohol's immunomodulatory effects: Commentary on Monnig, Lamb, Clark, and Monti-"Acute changes in immune biomarkers under low and moderate dose alcohol in light and heavy drinkers: A randomized, placebo-controlled trial". *Alcohol Clin Exp Res (Hoboken)*. 2025 Jul 25. doi: 10.1111/acer.70120. Epub ahead of print. PMID: 40714980.
6. **Grodin EN**, McManus K. Considerations for Neural Cannabis Cue-Reactivity Studies in Individuals With Cannabis Use Disorder. *Biological Psychiatry: Global Open Science*, accepted.

## Book Chapters

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1. **Grodin EN**, Meredith LR, Burnette EM, Ray LA. Brain-immune mechanisms in alcohol use disorder, targeting neuroimmune signaling in alcohol use disorder: Opportunities for translation. 2023. In S.M. Mueller & M. Heilig (Eds.), *Alcohol and Alcohol-related Diseases*. Springer.
2. Burnette EM, Nieto SJ, **Grodin EN**, Jentsch JD, Ray LA. Progressive Ratio Intravenous Alcohol Self-Administration in Clinical Studies. 2023. In M.A. Cyders (Ed.), *Alcohol Clin Exp Res*. Springer.

## MANUSCRIPTS UNDER REVIEW

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1. **Grodin EN**, Kirsch DE, Baskerville W, Ray LA. Sleep disturbance is associated with greater subjective and neural negative emotionality in people with alcohol use disorder, under review.
2. Belnap MA, McManus KM, Kirsch KE, **Grodin EN**, Ray LA. Reductions in cigarette and cannabis use during a randomized clinical trial for alcohol use disorder, under review.
3. Kirsch DE, Ray LA, **Grodin EN\***. Additive Effects of Alcohol Use Disorder and Early Life Stress on Negative Emotionality, under review.

\*denotes senior author, co-mentored postdoctoral fellow as first-author

## RESEARCH FUNDING

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### Active Research Support

NIAAA K01AA029712 Grodin(PI)  
"Characterizing the Microbiome-Gut-Brain Axis in Individuals with AUD"  
This K01 seeks to evaluate the relationship between gut dysbiosis, clinical phenomenology of AUD, and a brain-based biomarker in individuals with AUD and matched healthy controls.  
Role: PI Project Period: 04/01/2022-03/31/2027

NIDA R21DA059769 Ray/Grodin(MPI)  
"Development of Tetrahydrocannabivarin as a Treatment for Smokers"

This study will test the initial efficacy of  $\Delta 9$ -THCV, which is essential for understanding the clinical potential of this naturally occurring cannabinoid as a treatment for tobacco use disorder.  
Role: MPI Project Period: 08/15/2024-07/31/2026

NIAAA R01AA029701 Ray(PI)  
"Translational underpinnings of motivation for alcohol in humans"  
This study will test the three dimensions of the Addiction Neuroclinical Assessment (ANA) for their respective effects on motivation for alcohol in individuals with alcohol use disorder.  
Role: Co-I Project Period: 08/17/2023-07/31/2027

NIAAA R21AA030643 Ray (PI)  
"The effects of stress on decision-making in alcohol use disorder: A translational approach"  
This study will test the effects of acute stress and its underlying neurocircuitry on decision making among individuals with alcohol use disorder and matched controls.  
Role: Co-I Project Period: 03/14/2023-02/28/2025

Iris Cantor-UCLA Women's Health Center/CTSI Pilot Award Grodin (PI)  
"The Effect of Menstrual Cycle and Ovarian Hormones on Motivation for Alcohol in Women with Alcohol Use Disorder"  
This augmentation study will investigate the effect of ovarian hormones and menstrual cycle phase on motivation for alcohol in regularly cycling women with alcohol use disorder.  
Role: PI Project Period: 10/15/2025-10/14/2026

Goodman-Luskin Microbiome Center Grodin (PI)  
"Characterizing the Microbiome-Gut-Brain Axis in Individuals with AUD"  
This pilot award supplements a K01 study to add shotgun metagenomic sequencing to better understand the functional profiling of genes and pathways present in the microbial community of people with an AUD.  
Role: PI Project Period: 12/01/2024-11/30/2025

### **Completed Research Support**

Friends of Semel Research Scholars Grodin(PI)  
"Elucidating the Effects of Acute Inflammation on the Neural Substrates of Alcohol Cue Reactivity"  
This proposal leverages a new trial of endotoxin as an experimental model of acute inflammation in AUD through the addition of a novel neuroimaging component.  
Role: PI Project Period: 04/01/2021-03/31/2024

NIAAA R21AA027180 Ray(PI)  
"A novel human laboratory model for screening medications for alcohol use disorder"  
This study will validate a novel clinical paradigm for testing the initial efficacy of pharmacotherapies for alcohol use disorder.  
Role: Co-I Project Period: 09/20/2019-08/31/2022

NIAAA F32AA027699 Grodin(PI)  
"Elucidating the Effects of Neuroimmune Modulation on Neural Substrates of Alcohol Cue and Stress Reactivity"  
This study seeks to elucidate the effect of neuroimmune modulation through ibudilast on neural alcohol cue and stress reactivity in individuals with alcohol use disorder.  
Role: PI Project Period: 07/01/2019-01/21/2021

NIDA T32DA024635 London(PI)  
“UCLA Training Program in the Translational Neuroscience of Drug Abuse (TNDA)”  
The UCLA Training Program in the Translational Neuroscience of Drug Addiction (TNDA)  
provides multidisciplinary training that spans the fundamental bases of addiction from the  
genome to neural phenotypes and ultimately the syndrome of addiction, with particular strength  
in molecular and cellular neurobiology, brain imaging, and behavioral neuroscience.  
Role: Trainee Project Period: 01/21/2018-01/20/2019

**Training grants to co-mentored graduate students and post-doctoral fellows**

NIAAA F31AA031914 Baskerville(PI)  
“Testing Neurobiological Models of Alcohol Use Disorder Through Real World Cue Reactivity  
and Mood”  
Role: Co-Sponsor Project Period: 09/01/2024-08/31/2026

TRDRP T34FT8089 Kirsch(PI)  
“Examining the effects of cytosine on neural substrates of cigarette cue-reactivity”  
Role: Co-Sponsor Project Period: 07/01/2024-06/30/2027

NIAAA F32AA031425 Kirsch(PI)  
“A clinical neuroscience approach to understand stress coping in alcohol use disorder”  
Role: Co-Sponsor Project Period: 02/01/2024-06/31/2024

**INVITED ORAL PRESENTATIONS**

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June 2016 *Research Society on Alcoholism, New Orleans, Louisiana*  
“Neural Correlates of Aversion Resistant Alcohol Addiction”  
June 2018 *International Study Group Investigating Drugs as Reinforcers, San Diego, California*  
“The Neural Correlates of Compulsive Alcohol Seeking in Heavy Drinkers”  
March 2019 *International Convention of Psychological Science, Paris, France*  
“Elucidating the Effect of a Brief Drinking Intervention Using Neuroimaging”  
April 2020 *Collaborative Perspectives on Addiction, San Diego, California*  
“Modeling Motivation for Alcohol in Humans using Traditional and Machine Learning Approaches”  
June 2020 *Research Society on Alcoholism, New Orleans, Louisiana*  
“The Effects of a Neuroimmune Modulator on Behavioral, Neural, and Peripheral Markers”  
June 2020 *College on Problems of Drug Dependence, Virtual Conference*  
“Integrating fMRI in Clinical Pharmacology for Alcohol Use Disorder”  
September 2020 *Staying Connected: Neuroscience of Mental Health and Addiction Seminar Series, Virtual Meeting*  
“Ibuprofen for the Treatment of Alcohol Use Disorder: A Randomized Placebo-Controlled Experimental Study”  
December 2020 *American College on Neuropsychopharmacology, Virtual Conference*  
“Ibuprofen for the Treatment of Alcohol Use Disorder: A Randomized Placebo-Controlled Experimental Study”  
\*Selected as a Hot Topic  
February 2021 *Alcohol and Drug Abuse Center Postdoc Seminar Series, Louisiana State University, Virtual Seminar*

- June 2021 “Integrating functional Magnetic Resonance Imaging (fMRI) in Clinical Pharmacology for the Treatment of Alcohol Use Disorder”  
*Research Society on Alcoholism, Virtual Conference*
- December 2021 “Ibutilast for the Treatment of Alcohol Use Disorder: A Randomized Placebo-Controlled Experimental Study”  
*American College on Neuropsychopharmacology, San Juan, Puerto Rico*
- March 2022 “Ibutilast, a Neuroimmune Modulator, Decreases Biomarkers of Inflammation in Individuals with Alcohol Use Disorder: A Preliminary Study”  
*Wake Forest University, Department of Physiology and Pharmacology, Virtual Seminar*
- May 2022 “Identifying and Targeting Biomarkers of Inflammation in Alcohol Use Disorder”  
*1st Annual Charles Drew University Substance Abuse Research Training Program, UCLA T32/UCI T32 Retreat*
- July 2022 “Baseline C-Reactive Protein Levels are Predictive of Treatment Response to a Neuroimmune Modulator in Individuals with an Alcohol Use Disorder: A Preliminary Study”  
*Wake Forest University, Department of Physiology and Pharmacology,*
- January 2024 “Novel Targets for Alcohol Use Disorder: Probing the Gut Microbiome and Inflammatory Signaling”  
*National Institute on Alcohol Abuse and Alcoholism, Intramural Research Program*
- March 2024 “Identifying and Targeting Biomarkers of Inflammation in Alcohol Use Disorder”  
*University of California Los Angeles, Integrative Center on Addictions Lecture*
- May 2024 “Identifying and Targeting Biomarkers of Inflammation in Alcohol Use Disorder”  
*University of California Los Angeles, Goodman-Luskin Microbiome Center Seminar Series*
- June 2024 “Characterizing the Gut-Microbiome-Brain Axis in Individuals with an Alcohol Use Disorder”  
*Research Society on Alcohol, Annual Meeting*
- September 2024 “Gut Microbiome Interventions for Alcohol Use Disorder and Alcohol-Associated Liver Disease: A Systematic Review”  
*World Congress on Alcohol and Addictions (ISBRA)*
- October 2024 “Identifying and Targeting Biomarkers of Inflammation in Alcohol Use Disorder”  
*NeuroCon*
- November 2024 “Unpacking Inflammation in Alcohol Use Disorder: Pharmacotherapy and Experimental Probes:”  
*University of Southern California Neuroimaging and Informatics Master’s Program.*
- April 2025 “Neuroimaging in Alcohol Use Disorder: Uncovering the Neurobiology and Improving Treatment Development”.  
*University of California Los Angeles, Integrative Center on Addictions Symposia*
- June 2025 “Exploring Sleep and Inflammation in Alcohol Use Disorder”  
*Research Society on Alcohol, Annual Meeting*
- “Moderators of the Neuroimmune Modulator, Ibutilast, for Alcohol Use Disorder”

## AWARDS AND HONORS

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Future Leader, Emerging Psychoneuroimmunology Research	2024
Career Development Institute for Psychiatry, Recipient	2024
American Psychological Association, Travel Award	2023
NIDA Diversity Scholars Travel Award, American Psychological Association	2023
American College on Neuropsychopharmacology Travel Scholarship	2022
Winter Conference on Brain Research, Finalist for Poster Prize	2022
NIDA-NIAAA Frontiers in Addiction Research Early Career Investigator Showcase	2021
UCLA Chancellor's Award for Postdoctoral Research Nominee	2021
LSU Alcohol and Drug Abuse Center of Excellence Postdoctoral Seminar Travel Award	2021
American College on Neuropsychopharmacology Travel Award	2020
Winter Conference on Brain Research Travel Award	2020
Research Society on Alcoholism Junior Investigator Merit Award	2019
NIDA Training Program in Translational Neuroscience of Drug Abuse	2018
NIAAA/NIDA Diversity Supplement Workshop Travel Award	2018
Society for Biological Psychiatry Travel Award	2017
UCLA Neuroimaging Training Program Travel Award	2017
Research Society on Alcoholism Student Merit Award	2014, 2015, 2017
Sigma Xi Research Honors Society	2016 - present
Brown University Student Conference Travel Award	2016
National Institutes of Health Fellows Award for Research Excellence	2016

## TEACHING EXPERIENCE

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### **Psychiatry 180: Neuropsychopharmacology, UCLA** Spring 2025

- Guest lectured for one lecture session (2 hours; 60 students).
- Designed lecture content designed to provoke interaction and participation amongst students on the neuropsychopharmacology of alcohol, covering topics including alcohol metabolism, tolerance, withdrawal, alcohol's CNS mechanisms, and treatment for AUD.

### **Psychology 162: Psychology of Addiction, UCLA** Summer 2024

- Guest lectured for two in-person discussion sections (1 hour each; 50 students per section).
- Developed lecture and discussion section content designed to provoke interaction and participation amongst students on topics related to the neurobiology of addiction and prominent theories of addictions

### **Psychology 162: Psychology of Addiction, UCLA** Spring 2019

- 10-week hybrid (online and in-person) course on the psychological and neurobiological theories of addiction, pharmacological effects of drugs and abuse, etiology, assessment, diagnosis, and treatment
- Taught 4 in-person discussion sections (1 hour each; 50 students per section) and 1 online discussion section offered to non-local University of California students (1 hour; 10 students)
- Developed lecture and discussion section content designed to provoke interaction and participation amongst students

### **Summer Research Program on Addiction Science, UCLA** Summer 2019

- 40-hour intensive research training program offered to under-represented minorities at UCLA
- Selected readings focusing on clinical and translational addictions neuroscience

- Developed a project for students to complete during the program
- Assisted students in creating and presenting a poster of their project

## MENTORING

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### University of California, Los Angeles

- 2023 – Research Co-Mentor, *Dylan Kirsch*, Postdoctoral Fellow
- 2023 – Research Co-Mentor, *Malia Belnap*, Neuroscience Ph.D. candidate
- 2023 – Research Co-Mentor, *Kaitlin McManus*, Clinical Psychology Ph.D. candidate
- 2023 – 2024 Research Co-Mentor, *Annabel Kady*, Clinical Psychology Ph.D. candidate
- 2021 – Research Co-Mentor, *Wave-Ananda Baskerville*, Clinical Psychology Ph.D. candidate
- 2025 – Research Mentor, *Aditya Hari*, Undergraduate Research Assistant
- 2024 – 2025 Research Mentor, *Sai Kuppili*, Undergraduate Research Assistant
- 2023 – 2025 Research Mentor, *Gray Sawyer*, Undergraduate Research Assistant, Awarded a Hatos Center for Neuropsychopharmacology Summer Fellowship
- 2022 – 2024 Research Mentor, *Ebony Bayeh*, Undergraduate Research Assistant
- 2022 – 2024 Research Mentor, *Ethan Chen*, Undergraduate Research Assistant
- 2022 – 2023 Research Mentor, *Keegan Buch*, Undergraduate Research Assistant
- 2020 – 2021 Research Mentor, *Wave-Ananda Baskerville*, Postbaccalaureate Staff
- 2020 – 2021 Research Co-Mentor, *Wave-Ananda Baskerville*, Postbaccalaureate Staff
- 2019 – 2019 Research Mentor, *Jalen Robinson*, HBCU-UCLA Neuroscience Pathways Summer Research Program
- 2018 – 2023 Research Co-Mentor, *Elizabeth Burnette*, Neuroscience Ph.D.
- 2018 – 2019 Research Mentor, *Marla Dimetrious*, Undergraduate Research Assistant
- 2018 – 2019 Research Mentor, *Catherine Trinh*, Undergraduate Research Assistant

### Research Society on Alcoholism Mentoring Program

- 2025 – 2025 Career Mentor, *Ellen Towers*
- 2024 – 2024 Career Mentor, *Sunderland Baker*
- 2023 – 2023 Career Mentor, *Brittney Browning*
- 2021 – 2021 Career Mentor, *Sophia Berberian*

### Training:

Completed “Entering Mentoring” training from the National Research Mentoring Network

### Member:

Faculty Mentor, Enhancing Diversity in Alcohol Research Program

## PROFESSIONAL ACTIVITIES

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### Grant Reviewing

NIH Topics in Addiction Risks and Mechanisms Special Emphasis Panel, *Ad Hoc Reviewer Jan 2026*

University of Maryland Baltimore, Institute for Clinical and Translational Research, Accelerated Translational Incubator Pilot Panel, *Invited External Reviewer Jan 2026*

Deutsche Forschungsgemeinschaft (DFG) [German Research Foundation], *Invited Grant Reviewer Nov 2025*

ZonMw [Netherlands Organization for Health Research and Development] General Practice and Geriatric Medicine Programme, *Invited Grant Reviewer Aug 2025*

NIH Topics in Addiction Risks and Mechanisms Special Emphasis Panel, *Ad Hoc Reviewer July 2025*

NIH Addiction Risks and Mechanisms Study Section, *Ad Hoc Reviewer May 2025*  
NIH Neurotoxicology and Alcohol Study Section, *Early Career Reviewer June 2024*

### **Professional Affiliations**

American College of Neuropsychopharmacology (ACNP, Associate Member)  
Society of Addiction Psychology, APA (Div. 50, Member)  
Psychopharmacology and Substance Abuse, APA (Div. 28, Member)  
Research Society on Alcoholism (RSA, Member)

### **Journal Reviewing**

Addiction, *Ad Hoc Reviewer*  
Addiction Biology, *Ad Hoc Reviewer*  
Addictive Behaviors, *Ad Hoc Reviewer*  
Addiction Neuroscience, *Ad Hoc Reviewer*  
Alcohol, *Ad Hoc Reviewer*  
Alcohol and Alcoholism, *Ad Hoc Reviewer*  
Alcohol: Clinical and Experimental Research, *Ad Hoc Reviewer*  
American Journal of Psychiatry, *Ad Hoc Reviewer*  
American Journal on Addictions, *Ad Hoc Reviewer*  
Behavioral Brain Research, *Ad Hoc Reviewer*  
Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, *Ad Hoc Reviewer*  
Biological Psychiatry: Global Open Science, *Ad Hoc Reviewer*  
Biological Psychology, *Ad Hoc Reviewer*  
Brain, *Ad Hoc Reviewer*  
BMC Psychiatry, *Ad Hoc Reviewer*  
CNS Drugs, *Ad Hoc Reviewer*  
Contemporary Clinical Trials Communications, *Ad Hoc Reviewer*  
Cognitive, Affective, & Behavioral Neuroscience, *Ad Hoc Reviewer*  
Cortex, *Ad Hoc Reviewer*  
Developmental Cognitive Neuroscience, *Ad Hoc Reviewer*  
Drug and Alcohol Dependence, *Ad Hoc Reviewer*  
Drug Discovery Today, *Ad Hoc Reviewer*  
European Journal of Neuroscience, *Ad Hoc Reviewer*  
Frontiers in Psychiatry, *Review Editor*  
Health Psychology, *Ad Hoc Reviewer*  
Human Brain Mapping, *Ad Hoc Reviewer*  
International Journal of Neuropsychopharmacology, *Ad Hoc Reviewer*  
JAMA Psychiatry, *Ad Hoc Reviewer*  
Journal of Affective Disorders, *Ad Hoc Reviewer*  
Journal of Psychiatry and Neuroscience, *Ad Hoc Reviewer*  
Learning and Motivation, *Ad Hoc Reviewer*  
Neurobiology of Stress, *Ad Hoc Reviewer*  
NeuroImage: Clinical, *Ad Hoc Reviewer*  
Neuropsychopharmacology, *Ad Hoc Reviewer*  
Plos One, *Ad Hoc Reviewer*  
Progress in Neuropsychopharmacology and Biological Psychiatry, *Ad Hoc Reviewer*  
Psychology of Addictive Behaviors, *Ad Hoc Reviewer*  
Psychological Reports, *Ad Hoc Reviewer*  
Psychopharmacology, *Ad Hoc Reviewer*  
Scientific Reports, *Ad Hoc Reviewer*  
Translational Psychiatry, *Ad Hoc Reviewer*

### **Professional Service**

Winter Conference on Brain Research, Program Committee 2025-2026, *Member*

Addiction Craving and Cue Reactivity Initiative Network (ACRIN); 2022-present, *Member*

Research Society on Alcohol, Diversity, Equity, and Inclusion Committee 2022-present, *Member*

Research Society on Alcohol, Nominations Committee, 2023-present, *Member*

Research Society on Alcohol, Program Committee 2023-2024, *Member*

Black in Neuro Conference 2020, *Abstract Reviewer*

NIH Intramural Research Training Award Postbaccalaureate Poster Day 2014-2018, *Judge*

UCLA Neuroscience Interdepartmental Program Poster Day 2025, *Judge*