

# Curriculum Vitae

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### PROFESSIONAL EXPERIENCE

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- 2023 – **Adjunct Assistant Professor**, Department of Psychiatry, 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, 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

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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, [<sup>11</sup>C]-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.
  24. Ray LA, **Grodin EN**, Leggio L, Bechtholt AJ, Becker H, Feldstein Ewing SW, Jentsch JD, King AC, Mason BJ, O'Malley S, MacKillop J, Heilig M, Koob GF. The future of translational research on alcohol use disorder. *Addict Biol*. 2021 Mar;26(2):e12903. doi: 10.1111/adb.12903. Epub 2020 Apr 14. PMID: 32286721; PMCID: PMC7554164.
  25. Voon V, **Grodin EN**, Mandali A, Morris L, Doñamayor N, Weidacker K, Kwako L, Goldman D, Koob GF, Momenan R. Addictions Neuroimaging Assessment (ANIA): Towards an integrative framework for alcohol use disorder. *Neurosci Biobehav Rev*. 2020 Jun;113:492-506. doi: 10.1016/j.neubiorev.2020.04.004. Epub 2020 Apr 13. PMID: 32298710.
  26. Lim AC, **Grodin EN**, Green R, Venegas A, Meredith LR, Courtney KE, Moallem NR, Sayegh P, London ED, Ray LA. Executive function moderates naltrexone effects on methamphetamine-induced craving and subjective responses. *Am J Drug Alcohol Abuse*. 2020 Sep 2;46(5):565-576. doi: 10.1080/00952990.2020.1741002. Epub 2020 Apr 28. PMID: 32343625; PMCID: PMC7920534.
  27. Lim AC, Green R, **Grodin EN**, Venegas A, Meredith LR, Donato S, Burnette E, Ray LA. Alcohol Cue-Induced Ventral Striatum Activity Predicts Subsequent Alcohol Self-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**, 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.
  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.
32. Baskerville WA, Nieto SJ, Ho D, Towns B, **Grodin EN**, Li C, Burnette E, Donato S, Ray LA. Baseline Drinking Patterns in Non-Treatment Seeking Problem Drinkers. *Alcohol Alcohol*. 2021 Jan 4;56(1):57-63. doi: 10.1093/alcalc/agaa098. PMID: 33016306; PMCID: PMC7768624.
33. Burnette EM, **Grodin EN**, Schacht JP, Ray LA. Clinical and Neural Correlates of Reward and Relief Drinking. *Alcohol Clin Exp Res*. 2021 Jan;45(1):194-203. doi: 10.1111/acer.14495. Epub 2020 Nov 17. PMID: 33119924; PMCID: PMC7855771.
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.drugalcdep.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.drugalcdep.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.drugalcdep.2021.108603. Epub 2021 Feb 13. PMID: 33618192; PMCID: PMC8026564.
40. Meredith LR, Green R, **Grodin EN**, Chorpita M, Miotto K, Ray LA. Ibutilast 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. Ibutilast, 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.
  48. **Grodin EN**, Burnette E, Towns B, Venegas A, Ray LA. Effect of alcohol, tobacco, and cannabis co-use on gray matter volume in heavy drinkers. *Psychol Addict Behav.* 2021 Sep;35(6):760-768. doi: 10.1037/adb0000743. Epub 2021 Aug 26. PMID: 34435833; PMCID: PMC8484037.
  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, **Grodin EN\***, 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.  
\* 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, Zare-Bidoky M, Sangchooli A, Janes AC, Kaufman MJ, Oliver JA, Prisciandaro JJ, Wüstenberg T, Anton RF, Bach P, Baldacchino A, Beck A, Bjork JM, Brewer J, Childress AR, Claus ED, Courtney KE, Ebrahimi M, Filbey FM, Ghahremani DG, Azbari PG, Goldstein RZ, Goudriaan AE, **Grodin EN**, Hamilton JP, Hanlon CA, Hassani-Abhari P, Heinz A, Joseph JE, Kiefer F, Zonoozi AK, Kober H, Kuplicki R, Li Q, London ED, McClernon J, Noori HR, Owens MM, Paulus MP, Perini I, Potenza M, Potvin S, Ray L, Schacht JP, Seo D, Sinha R, Smolka MN, Spanagel R, Steele VR, Stein EA, Steins-Loeber S, Tapert SF, Verdejo-Garcia A, Vollstädt-Klein S, Wetherill RR, Wilson SJ, Witkiewitz K, Yuan K, Zhang X, 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.
  57. **Grodin EN**, Nieto SJ, Meredith LR, Burnette E, O'Neill J, Alger J, London ED, Miotto K, Evans CJ, Irwin MR, Ray LA. Effects of ibudilast on central and peripheral markers of inflammation in alcohol use disorder: A randomized clinical trial. *Addict Biol*. 2022 Jul;27(4):e13182. doi: 10.1111/adb.13182. PMID: 35754106; PMCID: PMC9888600.
  58. Nieto SJ, **Grodin EN**, Burnette EM, Cahill CM, Ray LA. Pain Catastrophizing Is Associated With Increased Alcohol Cue-Elicited Neural Activity Among Individuals With Alcohol Use Disorder. *Alcohol Alcohol*. 2022 Nov 11;57(6):727-733. doi: 10.1093/alcalc/agac029. PMID: 35788255; PMCID: PMC9651980.
  59. Farokhnia M, Fede SJ, **Grodin EN**, Browning BD, Crozier ME, Schwandt ML, Hodgkinson CA, Momenan R, Leggio L. Differential association between the GLP1R gene variants and brain functional connectivity according to the severity of alcohol use. *Sci Rep*. 2022 Jul 29;12(1):13027. doi: 10.1038/s41598-022-17190-3. PMID: 35906358; PMCID: PMC9338323.
  60. Green R, Lin J, Montoya AK, Bello MS, **Grodin EN**, Ryu H, Ho D, Leventhal AM, Ray LA. Characteristics associated with treatment seeking for smoking cessation among heavy-drinking research participants. *Front Psychiatry*. 2022 Sep 28;13:951364. doi: 10.3389/fpsy.2022.951364. PMID: 36245856; PMCID: PMC9554538.
  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.
  62. Ray LA, Nieto SJ, **Grodin EN**. Translational models of addiction phenotypes to advance addiction pharmacotherapy. *Ann N Y Acad Sci*. 2023 Jan;1519(1):118-128. doi: 10.1111/nyas.14929. Epub 2022 Nov 17. PMID: 36385614; PMCID: PMC10823887.
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  64. **Grodin EN**, Montoya AK, Cruz A, Donato S, Baskerville WA., Ray LA. Identifying Treatment Responders to Varenicline for Alcohol Use Disorder Using Two Machine-Learning Approaches. *Clinical Psychological Science*. 2023 May 15.12;1:133-146. doi:10.1177/21677026231169922
  65. Baskerville WA, **Grodin EN**, Lin J, Miotto K, Mooney LJ, Ray LA. Alcohol Use Among Treatment-Seeking Individuals With Opioid Use Disorder. *J Stud Alcohol Drugs*. 2023 Jul;84(4):579-584. doi: 10.15288/jsad.22-00176. Epub 2023 Apr 19. PMID: 37096768; PMCID: PMC10488310.
  66. Meredith LR, Burnette EM, Nieto SJ, Du H, Donato S, **Grodin EN**, Green R, Magill M, Baskerville WA, Ray LA. Testing pharmacotherapies for alcohol use disorder with cue exposure paradigms: A systematic review and quantitative synthesis of human laboratory trial methodology. *Alcohol Clin Exp Res*. 2023 Sep;47(9):1629-1645. doi: 10.1111/acer.15143. Epub 2023 Jul 23. PMID: 37423771.
  67. Burnette EM, **Grodin EN**, Olmstead R, Ray LA, Irwin MR. Alcohol use disorder (AUD) is associated with enhanced sensitivity to cellular lipopolysaccharide challenge. *Alcohol Clin Exp Res (Hoboken)*. 2023 Oct;47(10):1859-1868. doi: 10.1111/acer.15173. Epub 2023 Aug 26. PMID: 37864529; PMCID: PMC10830126.

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69. Ray LA, Baskerville WA, Nieto SJ, **Grodin EN**, Enders C, Kady A, Meredith L, Gillis A, Leventhal A, Ho D, Miotto K. A practice quit model to test early efficacy of medications for alcohol use disorder in a randomized clinical trial. *Psychopharmacology (Berl).* 2024 Mar;241(3):543-553. doi: 10.1007/s00213-023-06504-6. Epub 2023 Nov 28. PMID: 38012333.
70. Addiction Cue-Reactivity Initiative (ACRI) Network; Sangchooli A, Zare-Bidoky M, Fathi Jouzdani A, Schacht J, Bjork JM, Claus ED, Prisciandaro JJ, Wilson SJ, Wüstenberg T, Potvin S, Ahmadi P, Bach P, Baldacchino A, Beck A, Brady KT, Brewer JA, Childress AR, Courtney KE, Ebrahimi M, Filbey FM, Garavan H, Ghahremani DG, Goldstein RZ, Goudriaan AE, **Grodin EN**, Hanlon CA, Hugg A, Heilig M, Heinz A, Holczer A, Van Holst RJ, Joseph JE, Juliano AC, Kaufman MJ, Kiefer F, Khojasteh Zonoozi A, Kuplicki RT, Leyton M, London ED, Mackey S, McClernon FJ, Mellick WH, Morley K, Noori HR, Oghabian MA, Oliver JA, Owens M, Paulus MP, Perini I, Rafei P, Ray LA, Sinha R, Smolka MN, Soleimani G, Spanagel R, Steele VR, Tapert SF, Vollstädt-Klein S, Wetherill RR, Witkiewitz K, Yuan K, Zhang X, Verdejo-Garcia A, Potenza MN, Janes AC, Kober H, Zilverstand A, Ekhtiari H. Parameter Space and Potential for Biomarker Development in 25 Years of fMRI Drug Cue Reactivity: A Systematic Review. *JAMA Psychiatry.* 2024 Feb 7. doi: 10.1001/jamapsychiatry.2023.5483. Epub ahead of print. PMID: 38324323.
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72. Kirsch DE, Ray LA, Wassum KM, **Grodin EN\***. Anterior cingulate and medial prefrontal cortex alcohol cue reactivity varies as a function of drink preference in alcohol use disorder. *Drug Alcohol Depend.* 2024 Mar 1;256:111123. doi: 10.1016/j.drugalcdep.2024.111123. Epub 2024 Feb 12. PMID: 38367535.  
\*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.
74. **Grodin EN**. Neuroimmune modulators as novel pharmacotherapies for substance use disorders. *Brain Behav Immun Health.* 2024 Feb 22;36:100744. doi: 10.1016/j.bbih.2024.100744. PMID: 38435721; PMCID: PMC10906159.
75. Kirsch DE, Belnap MA, Burnette EM, **Grodin EN**, Ray, LA. Pharmacological Treatments for Alcohol Use Disorder: Considering the Role of Sex and Gender. *Curr Addict Rep.* 2024 Jan 03. 11:81–93. doi:10.1007/s40429-023-00535-x.
76. **Grodin EN**, Kirsch DE, Belnap M, Ray LA. Sex differences in neural response to an acute stressor in individuals with an alcohol use disorder. *Alcohol Clin Exp Res.* Accepted.

## 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/alcalc/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.

## 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, E.N.**, Burnette, E.M., Rodriguez, C., Fulcher, J.A., Ray, L.A., The Gut Microbiome in Alcohol Use Disorder and Alcohol-Associated Liver Disease: A Systematic Review, under review.
2. Meredith, L.R, Baskerville, W., Lee, C., **Grodin, E.N.**, Wassum, K.M., Ray, L.A. Influence of Real-World Cue Exposure and Mood States on Drinking: Testing Neurobiological Models of Alcohol Use Disorder, under review.
3. Kirsch, D.E., **Grodin, E.N.**, Ray, L.A. Are individuals with alcohol use disorder uniformly cue reactive? An exploratory analysis, under review

## RESEARCH FUNDING

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### Active 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. This proposal tests the hypothesis that experimentally-induced inflammation will potentiate neural alcohol cue reactivity in individuals with AUD relative to placebo and light drinking controls.

Role: PI

Project Period: 04/01/2021-03/31/2024

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

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

### **Completed Research Support**

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

### **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”  
\*conference called due to COVID-19

June 2020

*Research Society on Alcoholism, New Orleans, Louisiana*  
“The Effects of a Neuroimmune Modulator on Behavioral, Neural, and Peripheral Markers”  
\*conference called due to COVID-19

June 2020

*College on Problems of Drug Dependence, Virtual Conference*  
“Integrating fMRI in Clinical Pharmacology for Alcohol Use Disorder”

September 2020	<i>Staying Connected: Neuroscience of Mental Health and Addiction Seminar Series, Virtual Meeting</i> "Ibutilast for the Treatment of Alcohol Use Disorder: A Randomized Placebo-Controlled Experimental Study"
December 2020	<i>American College on Neuropsychopharmacology, Virtual Conference</i> "Ibutilast for the Treatment of Alcohol Use Disorder: A Randomized Placebo-Controlled Experimental Study" *Selected as a Hot Topic
February 2021	<i>Alcohol and Drug Abuse Center Postdoc Seminar Series, Louisiana State University, Virtual Seminar</i> "Integrating functional Magnetic Resonance Imaging (fMRI) in Clinical Pharmacology for the Treatment of Alcohol Use Disorder"
June 2021	<i>Research Society on Alcoholism, Virtual Conference</i> "Ibutilast for the Treatment of Alcohol Use Disorder: A Randomized Placebo-Controlled Experimental Study"
December 2021	<i>American College on Neuropsychopharmacology, San Juan, Puerto Rico</i> "Ibutilast, a Neuroimmune Modulator, Decreases Biomarkers of Inflammation in Individuals with Alcohol Use Disorder: A Preliminary Study"
March 2022	<i>Wake Forest University, Department of Physiology and Pharmacology, Virtual Seminar</i> "Identifying and Targeting Biomarkers of Inflammation in Alcohol Use Disorder"
May 2022	<i>1st Annual Charles Drew University Substance Abuse Research Training Program, UCLA T32/UCI T32 Retreat</i> "Baseline C-Reactive Protein Levels are Predictive of Treatment Response to a Neuroimmune Modulator in Individuals with an Alcohol Use Disorder: A Preliminary Study"
July 2022	<i>Wake Forest University, Department of Physiology and Pharmacology,</i> "Novel Targets for Alcohol Use Disorder: Probing the Gut Microbiome and Inflammatory Signaling"
January 2024	<i>National Institute on Alcohol Use Disorder, Intramural Research Program</i> "Identifying and Targeting Biomarkers of Inflammation in Alcohol Use Disorder"

## **AWARDS AND HONORS**

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<b>American Psychological Association, Travel Award</b>	2023
<b>NIDA Diversity Scholars Travel Award, American Psychological Association</b>	2023
<b>American College on Neuropsychopharmacology Travel Scholarship</b>	2022
<b>Winter Conference on Brain Research, Finalist for Poster Prize</b>	2022
<b>NIDA-NIAAA Frontiers in Addiction Research Early Career Investigator Showcase</b>	2021
<b>UCLA Chancellor's Award for Postdoctoral Research Nominee</b>	2021
<b>LSU Alcohol and Drug Abuse Center of Excellence Postdoctoral Seminar Travel Award</b>	2021

<b>American College on Neuropsychopharmacology Travel Award</b>	2020
<b>Winter Conference on Brain Research Travel Award</b>	2020
<b>Research Society on Alcoholism Junior Investigator Merit Award</b>	2019
<b>NIDA Training Program in Translational Neuroscience of Drug Abuse</b>	2018
<b>NIAAA/NIDA Diversity Supplement Workshop Travel Award</b>	2018
<b>Society for Biological Psychiatry Travel Award</b>	2017
<b>UCLA Neuroimaging Training Program Travel Award</b>	2017
<b>Research Society on Alcoholism Student Merit Award</b>	2014, 2015, 2017
<b>Sigma Xi Research Honors Society</b>	2016 - present
<b>Brown University Student Conference Travel Award</b>	2016
<b>National Institutes of Health Fellows Award for Research Excellence</b>	2016

## TEACHING EXPERIENCE

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### **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 EXPERIENCE

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### **University of California, Los Angeles Postdoctoral Fellows:**

Research Co-Mentor to Dylan Kirsch, Ph.D.

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

Research Co-Mentor to Elizabeth Burnette – Neuroscience Ph.D. candidate

Research Co-Mentor to Malia Belnap – Neuroscience Ph.D. rotation student

Research Co-Mentor to Wave-Ananda Baskerville – Clinical Psychology Ph.D. candidate

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

Research Mentor to Crystal Rodriguez

Research Co-Mentor to Wave-Ananda Baskerville – NIAAA Diversity Supplement Grant Trainee

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

Research Mentor to Grace Sawyer – UCLA Clinical and Translational Institute Research Associate Program

Research Mentor to Ebony Beyah – Semel Institute Undergraduate Research Conference

Research Mentor to Ethan Chen – Semel Institute Undergraduate Research Conference

Research Mentor to Keegan Buch – Undergraduate Development Honors Program

Research Mentor to Catherine Trinh – Undergraduate Research Fellows Program, Psychology Undergraduate Research Conference

Research Mentor to Marla Dimetrious – Interdepartmental Undergraduate for Neuroscience 199A, 199B

Research Mentor to Jalen Robinson – HBCU-UCLA Neuroscience Pathways Summer Research Program

**Research Society on Alcoholism Mentoring Program:**

Career Mentor to Sophia Berberian – Undergraduate Research Fellow, Arizona State University

**National Institute on Alcohol Abuse and Alcoholism Postbaccalaureate Trainees:**

Research Co-Mentor to Lauren Sussman – Intramural Research Trainee Award Fellow

Research Co-Mentor to Kelsey Sundby – Intramural Research Trainee Award Fellow

Research Co-Mentor to Grace Brennan – Intramural Research Trainee Award Fellow

**Training:**

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

**PROFESSIONAL ACTIVITIES**

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**Journal Reviewing**

Addiction, *Ad Hoc Reviewer*

Addiction Biology, *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*

Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, *Ad Hoc Reviewer*

Biological Psychology, *Ad Hoc Reviewer*

BMC Psychiatry, *Ad Hoc Reviewer*

CNS Drugs, *Ad Hoc Reviewer*

Cognitive, Affective, & Behavioral Neuroscience, *Ad Hoc Reviewer*

Cortex, *Ad Hoc Reviewer*

Drug and Alcohol Dependence, *Ad Hoc Reviewer*

Drug Discovery Today, *Ad Hoc Reviewer*

Frontiers in Psychiatry, *Review Editor*

Health Psychology, *Ad Hoc Reviewer*

International Journal of Neuropsychopharmacology, *Ad Hoc Reviewer*

Learning and Motivation, *Ad Hoc Reviewer*

NeuroImage: Clinical, *Ad Hoc Reviewer*

Neuropsychopharmacology, *Ad Hoc Reviewer*

Progress in Neuropsychopharmacology and Biological Psychiatry, *Ad Hoc Reviewer*

Psychopharmacology, *Ad Hoc Reviewer*

Scientific Reports, *Ad Hoc Reviewer*  
Translational Psychiatry, *Ad Hoc Reviewer*

**Professional Service**

Research Society on Alcohol, Diversity, Equity, and Inclusion Committee 2022-present, *Member*  
Research Society on Alcohol, Program Committee 2023-2024, *Member*  
Research Society on Alcohol, Nominations Committee, 2023-2024, *Member*  
Black in Neuro Conference 2020, *Abstract Reviewer*  
NIH Intramural Research Training Award Postbaccalaureate Poster Day 2014-2018, *Judge*