



INIAstress Consortium Publications 2025

1. Blanton MB, Hemati H, Qiao Q, Khadka R, Hawk G, Grant KA, Messaoudi I. Short-term heavy drinking in a non-human primate model skews monocytes toward a hypo-inflammatory phenotype. *Front Immunol.* 2025 Jun 23;16:1606092. doi: 10.3389/fimmu.2025.1606092. PMID: 40625733; PMCID: PMC12229841.
2. Cervera-Juanes RP, Zimmerman KD, Wilhelm LJ, Lowe CC, Gonzales SW, Carlson T, Hitzemann R, Ferguson BM, Grant KA. Pre-existing DNA methylation signatures in the prefrontal cortex of alcohol-naïve nonhuman primates define neural vulnerability for future risky ethanol consumption. *Neurobiol Dis.* 2025 Jun 1;209:106886. doi: 10.1016/j.nbd.2025.106886. Epub 2025 Mar 24. PMID: 40139280; PMCID: PMC12044430.
3. Conley SY, Sizer SE, Bedard ML, Faccidomo S, Hodge CW, McElligott ZA. Glutamate delta-1 receptors regulate a tonic excitatory conductance in the mouse bed nucleus of the stria terminalis and influence neuronal function. *Psychopharmacology (Berl).* 2025 Aug 18. doi: 10.1007/s00213-025-06876-x. Epub ahead of print. PMID: 40824568.
4. Downs AM, Kmiec G, Catavero CM, Wykoff LA, McElligott ZA. Loss of excitatory inputs and decreased tonic and evoked activity of locus coeruleus neurons in aged P301S mice. *Neurobiol Dis.* 2025 May;208:106883. doi: 10.1016/j.nbd.2025.106883. Epub 2025 Mar 21. PMID: 40122182; PMCID: PMC12056759.
5. Downs AM, Kmiec G, Catavero CM, McElligott ZA. Loss of excitatory inputs and decreased tonic and evoked activity of locus coeruleus neurons in aged P301S mice. *bioRxiv [Preprint].* 2025 Jan 17:2025.01.17.633373. doi: 10.1101/2025.01.17.633373. PMID: 39868303; PMCID: PMC11761406.
6. Farahbakhsh ZZ, Holleran KM, Sens JP, Fordahl SC, Mauterer MI, López AJ, Cuzon Carlson VC, Kiraly DD, Grant KA, Jones SR, Siciliano CA. Synchrony between midbrain gene transcription and dopamine terminal regulation is modulated by chronic alcohol drinking. *Nat Commun.* 2025 Feb 25;16(1):1944. doi: 10.1038/s41467-025-56715-y. PMID: 39994195; PMCID: PMC11850823.
7. Garcia KE, Kroenke CD, Bayly PV. Mechanical stress connects cortical folding to fiber organization in the developing brain. *Trends Neurosci.* 2025 Jun;48(6):395-402. doi: 10.1016/j.tins.2025.04.001. Epub 2025 Apr 29. PMID: 40307105; PMCID: PMC12439404.
8. Gianessi CA, Haun HL, Pati D, Sides T, D'Ambrosio SL, Kelson WP, Hernandez R, Gereau GB, Boyt K, Hodge CW, Kash TL. Disentangling the effects of corticotrophin releasing factor and GABA release from the bed nucleus of the stria terminalis on ethanol self-administration in mice. *Neuropsychopharmacology.* 2025 Sep 6. doi: 10.1038/s41386-025-02192-2. Epub ahead of print. PMID: 40914750.
9. Haun H, Hernandez R, Yan L, Flanigan M, Hon O, Lee S, Méndez H, Roland A, Taxier L, Kash T. Septo-hypothalamic regulation of binge-like alcohol consumption by the nociceptin system. *Cell Rep.*

2025 Apr 22;44(4):115482. doi: 10.1016/j.celrep.2025.115482. Epub 2025 Mar 27. PMID: 40153436; PMCID: PMC12181985.

10. Hemati H, Blanton MB, Koura J, Khadka R, Grant KA, Messaoudi I. Chronic alcohol consumption enhances the differentiation capacity of hematopoietic stem and progenitor cells into osteoclast precursors. *bioRxiv [Preprint]*. 2025 Feb 8:2025.02.05.636743. doi: 10.1101/2025.02.05.636743. PMID: 39975302; PMCID: PMC11839057.
11. Hemati H, Blanton MB, True HE, Koura J, Khadka R, Grant KA, Messaoudi I. Phenotypic and Functional Alterations in Peripheral Blood Mononuclear Cell-Derived Microglia in a Primate Model of Chronic Alcohol Consumption. *bioRxiv [Preprint]*. 2025 Feb 6:2025.02.05.636708. doi: 10.1101/2025.02.05.636708. PMID: 39975066; PMCID: PMC11839131.
12. Inabinett WB, Wang S, Estave PM, Peck EG, Jones SR, Chen R. Cocaine Self-Administration Differentially Modulates the Content of Cholesterol, Progesterone, and Testosterone in the Brain and Plasma of Male Rats. *Neuroendocrinology*. 2025;115(6-7):483-492. doi: 10.1159/000544983. Epub 2025 Mar 3. PMID: 40031873; PMCID: PMC12229769.
13. Lapish CC. Understanding How Acute Alcohol Impacts Neural Encoding in the Rodent Brain. *Curr Top Behav Neurosci*. 2025;71:401-423. doi: 10.1007/7854_2024_479. PMID: 38858298; PMCID: PMC12284808.
14. Lonnberg A, Logrip ML, Kuznetsov A. Mechanisms of alcohol influence on fear conditioning: A computational model. *Alcohol Clin Exp Res (Hoboken)*. 2025 Jun;49(6):1233-1247. doi: 10.1111/acer.70071. Epub 2025 May 19. PMID: 40390190; PMCID: PMC12173769.
15. Lopez MF, Becker HC. Increased alcohol-biased choice behavior in mouse models of high alcohol drinking. *Alcohol Clin Exp Res (Hoboken)*. 2025 Jul;49(7):1435-1444. doi: 10.1111/acer.70076. Epub 2025 May 22. PMID: 40405336; PMCID: PMC12285916.
16. Lopez MF, Misztak P, Becker HC, Cowan CW, Anderson EM. Targeting G9a decreases escalated alcohol drinking in male mice in a model of combined stress and chronic alcohol exposure. *Alcohol Clin Exp Res (Hoboken)*. 2025 Oct;49(10):2267-2277. doi: 10.1111/acer.70142. Epub 2025 Sep 9. PMID: 40926332; PMCID: PMC12519044.
17. Mukerjee S, Siciliano CA. Richardson's law and the origins of alcohol research. *Proc Natl Acad Sci U S A*. 2025 Apr 15;122(15):e2318863122. doi: 10.1073/pnas.2318863122. Epub 2025 Apr 7. PMID: 40193600; PMCID: PMC12012554.
18. Nolan SO, Melugin PR, Erickson KR, Adams WR, Farahbakhsh ZZ, Mcgonigle CE, Kwon MH, Costa VD, Hackett TA, Cuzon Carlson VC, Constantinidis C, Lapish CC, Grant KA, Siciliano CA. Recurrent activity propagates through labile ensembles in macaque dorsolateral prefrontal microcircuits. *Curr Biol*. 2025 Jan 20;35(2):431-443.e4. doi: 10.1016/j.cub.2024.11.069. Epub 2025 Jan 6. PMID: 39765226; PMCID: PMC11832050.
19. Revka O, Belcufine SJ, Fitts L, Nippert KE, Teves C, Reis PM, Tenney S, Packer BE, Alvarez IG, Milstein O, da Silva MC, Moorman DE, Vazey EM. Impact of chronic alcohol and stress on mid-life cognition and locus coeruleus integrity. *bioRxiv [Preprint]*. 2025 Nov 21:2025.11.20.689500. doi: 10.1101/2025.11.20.689500. PMID: 41332614; PMCID: PMC12667861.
20. Rodberg EM, Vazey EM. Low affinity noradrenergic signaling promotes passive coping during reinforcement behavior. *bioRxiv [Preprint]*. 2025 Sep 24:2025.04.05.647394. doi: 10.1101/2025.04.05.647394. PMID: 41040291; PMCID: PMC12485757.
21. Wallace CW, DiMarco EK, Slinkard CY, Shaughnessy R, Holleran KM, Centanni SW, Lapish CC, Jones SR. Fiber Photometry Analysis of Spontaneous Dopamine Signals: The Z-Scored Data Are Not the

Data. ACS Chem Neurosci. 2025 Sep 3;16(17):3239-3256. doi: 10.1021/acscchemneuro.5c00078. Epub 2025 Aug 13. PMID: 40801083.

22. Wallace CW, Holleran KM, Slinkard CY, Centanni SW, Lapish CC, Jones SR. Kappa opioid receptors diminish spontaneous dopamine signals in awake mice through multiple mechanisms. *Neuropharmacology*. 2025 Aug 1;273:110458. doi: 10.1016/j.neuropharm.2025.110458. Epub 2025 Apr 7. PMID: 40204058.
23. Wallace CW, Slinkard CY, Shaughnessy R, Holleran KM, Centanni SW, Lapish CC, Jones SR. Fiber photometry analysis of spontaneous dopamine signals: The z-scored data are not the data. *bioRxiv [Preprint]*. 2025 Feb 24:2025.02.19.639080. doi: 10.1101/2025.02.19.639080. PMID: 40060421; PMCID: PMC11888193.
24. Ward AL, Winston KT, Buchmaier S, Cooper CJ, Clarke RE, Martino MR, Vollmer KM, Paniccia JE, Bell MS, Doncheck EM, Grant RI, Boquiren J, Baek J, Manusky LM, Westphal AM, Green LM, Pagoota BE, Otis JM, Rinker JA. A model of ethanol self-administration in head-fixed mice. *Alcohol Clin Exp Res (Hoboken)*. 2025 Sep;49(9):2103-2112. doi: 10.1111/acer.70132. Epub 2025 Aug 7. PMID: 40776452; PMCID: PMC12463755.