

Matthew Pomrenze

Postdoctoral Scholar, Psychiatry

Bio

PROFESSIONAL EDUCATION

- Bachelor of Arts, University of Colorado Boulder (2011)
- Doctor of Philosophy, University of Texas Austin (2019)

STANFORD ADVISORS

- Robert Malenka, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Modulation of 5-HT release by dynorphin mediates social deficits during opioid withdrawal.** *Neuron*
Pomrenze, M. B., Cardozo Pinto, D. F., Neumann, P. A., Llorach, P., Tucciarone, J. M., Morishita, W., Eshel, N., Heifets, B. D., Malenka, R. C.
2022
- **Somatodendritic Release of Cholecystokinin Potentiates GABAergic Synapses Onto Ventral Tegmental Area Dopamine Cells.** *Biological psychiatry*
Martinez Damonte, V., Pomrenze, M. B., Manning, C. E., Casper, C., Wolfden, A. L., Malenka, R. C., Kauer, J. A.
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- **Friend of the Devil: Negative Social Influences Driving Substance Use Disorders.** *Frontiers in behavioral neuroscience*
Pomrenze, M. B., Paliarin, F., Maiya, R.
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- **Gray areas: Neuropeptide circuits linking the Edinger-Westphal and Dorsal Raphe nuclei in addiction.** *Neuropharmacology*
Pomrenze, M. B., Walker, L. C., Giardino, W. J.
2021: 108769
- **Love it or Leave it: Differential Modulation of Incentive Motivation by Corticotropin-Releasing Factor Neurons.** *Biological psychiatry*
Pomrenze, M. B., Marinelli, M.
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- **Extended Amygdala Neuropeptide Circuitry of Emotional Arousal: Waking Up on the Wrong Side of the Bed Nuclei of Stria Terminalis.** *Frontiers in behavioral neuroscience*
Giardino, W. J., Pomrenze, M. B.
2021; 15: 613025
- **Dissecting neural mechanisms of prosocial behaviors.** *Current opinion in neurobiology*
Walsh, J. J., Christoffel, D. J., Wu, X., Pomrenze, M. B., Malenka, R. C.
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- **A New Look at the Role of Mesoamygdaloid Dopamine Neurons in Aversive Conditioning.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
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- **Differential regulation of alcohol consumption and reward by the transcriptional cofactor LMO4.** *Molecular psychiatry*

Maiya, R. n., Pomrenze, M. B., Tran, T. n., Tiwari, G. R., Beckham, A. n., Paul, M. T., Dayne Mayfield, R. n., Messing, R. O.
2020

- **Dissecting the Roles of GABA and Neuropeptides from Rat Central Amygdala CRF Neurons in Anxiety and Fear Learning.** *Cell reports*
Pomrenze, M. B., Giovanetti, S. M., Maiya, R., Gordon, A. G., Kreeger, L. J., Messing, R. O.
2019; 29 (1): 13
- **Promoting activity of (#4)3(#2)2 nicotinic cholinergic receptors reduces ethanol consumption.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
Wang, J., Blasio, A., Chapman, H. L., Doebelin, C., Liaw, V., Kuryatov, A., Giovanetti, S. M., Lindstrom, J., Lin, L., Cameron, M. D., Kamenecka, T. M., Pomrenze, M. B., Messing, et al
2019
- **Inactivation of a CRF-dependent amygdalofugal pathway reverses addiction-like behaviors in alcohol-dependent rats.** *Nature communications*
de Guglielmo, G., Kallupi, M., Pomrenze, M. B., Crawford, E., Simpson, S., Schweitzer, P., Koob, G. F., Messing, R. O., George, O.
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- **A Corticotropin Releasing Factor Network in the Extended Amygdala for Anxiety.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
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- **Novel Small-Molecule Inhibitors of Protein Kinase C Epsilon Reduce Ethanol Consumption in Mice.** *Biological psychiatry*
Blasio, A., Wang, J., Wang, D., Varodayan, F. P., Pomrenze, M. B., Miller, J., Lee, A. M., McMahon, T., Gyawali, S., Wang, H. Y., Roberto, M., McHardy, S., Pleiss, et al
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- **Cooperative CRF and #1 Adrenergic Signaling in the VTA Promotes NMDA Plasticity and Drives Social Stress Enhancement of Cocaine Conditioning.** *Cell reports*
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- **The Corticotropin Releasing Factor Receptor 1 in Alcohol Use Disorder: Still a Valid Drug Target?** *Alcoholism, clinical and experimental research*
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- **Repeated social defeat stress enhances glutamatergic synaptic plasticity in the VTA and cocaine place conditioning.** *eLife*
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- **DAT isn't all that: cocaine reward and reinforcement require Toll-like receptor 4 signaling.** *Molecular psychiatry*
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