

Stanford

Matthew Pomrenze

Instructor, Psychiatry and Behavioral Sciences

Bio

ACADEMIC APPOINTMENTS

- Instructor, Psychiatry and Behavioral Sciences

Publications

PUBLICATIONS

- **UNRAVELing the synergistic effects of psilocybin and environment on brain-wide immediate early gene expression in mice.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
Rijsketic, D. R., Casey, A. B., Barbosa, D. A., Zhang, X., Hietamies, T. M., Ramirez-Ovalle, G., Pomrenze, M. B., Halpern, C. H., Williams, L. M., Malenka, R. C., Heifets, B. D.
2023
- **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.
2022
- **Friend of the Devil: Negative Social Influences Driving Substance Use Disorders.** *Frontiers in behavioral neuroscience*
Pomrenze, M. B., Paliarin, F., Maiya, R.
2022; 16: 836996
- **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.
2021; 89 (12): 1113-1115
- **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.
2020; 68: 9–14
- **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*
Cardozo Pinto, D. F., Taniguchi, L. n., Norville, Z. C., Pomrenze, M. B.
2020; 40 (40): 7590–92

- **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., Kreger, 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., Doeblin, 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.
2019; 10 (1): 1238
- **A Corticotropin Releasing Factor Network in the Extended Amygdala for Anxiety.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Pomrenze, M. B., Tovar-Díaz, J., Blasio, A., Maiya, R., Giovanetti, S. M., Lei, K., Morikawa, H., Hopf, F. W., Messing, R. O.
2019; 39 (6): 1030-1043
- **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
2018; 84 (3): 193-201
- **Cooperative CRF and #1 Adrenergic Signaling in the VTA Promotes NMDA Plasticity and Drives Social Stress Enhancement of Cocaine Conditioning.** *Cell reports*
Tovar-Díaz, J., Pomrenze, M. B., Kan, R., Pahlavan, B., Morikawa, H.
2018; 22 (10): 2756-2766
- **The Corticotropin Releasing Factor Receptor 1 in Alcohol Use Disorder: Still a Valid Drug Target?** *Alcoholism, clinical and experimental research*
Pomrenze, M. B., Fetterly, T. L., Winder, D. G., Messing, R. O.
2017; 41 (12): 1986-1999
- **Repeated social defeat stress enhances glutamatergic synaptic plasticity in the VTA and cocaine place conditioning.** *eLife*
Stelly, C. E., Pomrenze, M. B., Cook, J. B., Morikawa, H.
2016; 5
- **DAT isn't all that: cocaine reward and reinforcement require Toll-like receptor 4 signaling.** *Molecular psychiatry*
Northcutt, A. L., Hutchinson, M. R., Wang, X., Baratta, M. V., Hiranita, T., Cochran, T. A., Pomrenze, M. B., Galer, E. L., Kopajtic, T. A., Li, C. M., Amat, J., Larson, G., Cooper, et al
2015; 20 (12): 1525-37