



Thomas J Cirino

Research Scientist, Animal Pharmacology, Innovative Medicines Accelerator (IMA)

Bio

BIO

In Vivo Pharmacologist with expertise in CNS disorders including neurodegenerative disease, psychiatric disorders and pain.

EDUCATION AND CERTIFICATIONS

- Ph.D, University of Florida , Pharmaceutical Sciences (2020)
- B.S, Florida State University , Biochemistry and Chemistry (2015)

Publications

PUBLICATIONS

- **A diencephalic circuit in rats for opioid analgesia but not positive reinforcement.** *Nature communications*
Wuang, M. W., Maanum, K. A., Cirino, T. J., Driscoll, J. R., O'Brien, C., Bryant, S., Mansourian, K. A., Morales, M., Barker, D. J., Margolis, E. B.
2022; 13 (1): 764
- **Mini review: Promotion of substance abuse in HIV patients: Biological mediation by HIV-1 Tat protein** *NEUROSCIENCE LETTERS*
Cirino, T. J., McLaughlin, J. P.
2021; 753: 135877
- **Expression of Human Immunodeficiency Virus Transactivator of Transcription (HIV-Tat¹⁻⁸⁶) Protein Alters Nociceptive Processing that is Sensitive to Anti-Oxidant and Anti-Inflammatory Interventions** *JOURNAL OF NEUROIMMUNE PHARMACOLOGY*
Cirino, T. J., Alleyne, A. R., Duarte, V., Figueroa, A., Simons, C. A., Anceaume, E. M., Kendrick, J., Wallman, O., Eans, S. O., Stacy, H. M., Medina, J. M., McLaughlin, J. P.
2022; 17 (1-2): 152-164
- **Region-specific effects of HIV-1 Tat on intrinsic electrophysiological properties of pyramidal neurons in mouse prefrontal cortex and hippocampus** *JOURNAL OF NEUROPHYSIOLOGY*
Cirino, T. J., Harden, S. W., McLaughlin, J. P., Frazier, C. J.
2020; 123 (4): 1332-1341
- **Characterization of Sigma 1 Receptor Antagonist CM-304 and Its Analog, AZ-66: Novel Therapeutics Against Allodynia and Induced Pain** *FRONTIERS IN PHARMACOLOGY*
Cirino, T. J., Eans, S. O., Medina, J. M., Wilson, L. L., Mottinelli, M., Intagliata, S., McCurdy, C. R., McLaughlin, J. P.
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- **SRI-30827, a novel allosteric modulator of the dopamine transporter, alleviates HIV-1 Tat-induced potentiation of cocaine conditioned place preference in mice.** *NeuroImmune pharmacology and therapeutics*
Hammond, H. R., Eans, S. O., Cirino, T. J., Ananthan, S., Jimenez-Torres, A. C., Zhu, J., McLaughlin, J. P.
2024; 3 (1): 1-6
- **SRI-32743, a novel allosteric modulator, attenuates HIV-1 Tat protein-induced inhibition of the dopamine transporter and alleviates the potentiation of cocaine reward in HIV-1 Tat transgenic mice** *NEUROPHARMACOLOGY*

Zhu, J., Quizon, P. M., Wang, Y., Adeniran, C. A., Strauss, M. J., Jimenez-Torres, A. C., Patel, P., Cirino, T. J., Eans, S. O., Hammond, H. R., Deliscar, L. S., O'Hara, P., Saini, et al
2022; 220: 109239

● **Characterization of CM-398, a Novel Selective Sigma-2 Receptor Ligand, as a Potential Therapeutic for Neuropathic Pain** *MOLECULES*

Wilson, L. L., Alleyne, A. R., Eans, S. O., Cirino, T. J., Stacy, H. M., Mottinelli, M., Intagliata, S., McCurdy, C. R., McLaughlin, J. P.
2022; 27 (11)

● **Novel histone modifications in microglia derived from a mouse model of chronic pain** *PROTEOMICS*

Zhang, P., Guergues, J., Alleyne, A. R., Cirino, T. J., Nadeau, O., Figueroa, A. M., Stacy, H. M., Suzuki, T., McLaughlin, J. P., Stevens, S. M., Liu, B.
2022; 22 (9): e2100137

● **Kratom Alkaloids, Natural and Semi-Synthetic, Show Less Physical Dependence and Ameliorate Opioid Withdrawal** *CELLULAR AND MOLECULAR NEUROBIOLOGY*

Wilson, L. L., Chakraborty, S., Eans, S. O., Cirino, T. J., Stacy, H. M., Simons, C. A., Uprety, R., Majumdar, S., McLaughlin, J. P.
2021; 41 (5): 1131-1143

● **Lyophilized Kratom Tea as a Therapeutic Option for Opioid Dependence** *DRUG AND ALCOHOL DEPENDENCE*

Wilson, L. L., Harris, H. M., Eans, S. O., Brice-Tutt, A. C., Cirino, T. J., Stacy, H. M., Simons, C. A., Leon, F., Sharma, A., Boyer, E. W., Avery, B. A., McLaughlin, J. P., McCurdy, et al
2020; 216: 108310

● **HIV-Tat and Cocaine Impact Brain Energy Metabolism: Redox Modification and Mitochondrial Biogenesis Influence NRF Transcription-Mediated Neurodegeneration** *MOLECULAR NEUROBIOLOGY*

Sivalingam, K., Cirino, T. J., McLaughlin, J. P., Samikkannu, T.
2021; 58 (2): 490-504

● **Conditional Human Immunodeficiency Virus Transactivator of Transcription Protein Expression Induces Depression-like Effects and Oxidative Stress** *BIOLOGICAL PSYCHIATRY-COGNITIVE NEUROSCIENCE AND NEUROIMAGING*

McLaughlin, J. P., Paris, J. J., Mintzopoulos, D., Hymel, K. A., Kim, J. K., Cirino, T. J., Gillis, T. E., Eans, S. O., Vitaliano, G. D., Medina, J. M., Krapf, R. C., Stacy, H. M., Kaufman, et al
2017; 2 (7): 599-609