

# **Albrechet-Souza, Lucas**

## **Instructor – Research**

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## **Degrees**

MS, PhD

## **Bio**

Instructor-Research, Department of Physiology, LSUHSC-NO

Postdoctoral training in Neuropharmacology, LSUHSC-NO

Postdoctoral training in Psychopharmacology, Tufts University

Postdoctoral training in Neuropsychopharmacology, University of Sao Paulo, Brazil

Ph.D. in Psychobiology, University of Sao Paulo, Brazil

M.S. in Psychobiology, University of Sao Paulo, Brazil

B.S. in Biology Education, University of Sao Paulo, Brazil

B.S. in Biology, University of Sao Paulo, Brazil

## **Research Interests**

I have a broad background in Behavioral Neuroscience, with specific training and expertise in preclinical rodent models used to identify the behavioral, hormonal, and neural mechanisms underlying stress and addiction. During my scientific training, I have developed a strong theoretical framework regarding the pathophysiology of stress and substance use, as well as a strong set of multidisciplinary technical skills including rodent stereotaxic surgery, behavioral measures (sensorimotor, learning and memory, affect, social behavior, substance consumption and self-administration), histology, immunohistochemistry, pharmacological tools and chemogenetics. My long-term research interest is to establish how stress and alcohol promotes

changes in the brain to drive the adverse behavioral outcomes associated with stress-related neuropsychiatric diseases and alcohol use disorder. My ultimate goal is to advance scientific understanding of these neurobiological mechanisms in order to improve prevention and develop new therapeutic strategies to treat these conditions, alleviating the suffering caused by mental illness.

### **Selected Publications**

Albrechet-Souza L, Nastase AS, Hill MN, Gilpin NW. Amygdalar endocannabinoids are affected by predator odor stress in a sex-specific manner and modulate acoustic startle reactivity in female rats. *Neurobiology of Stress* 15: 100387, 2021.

Albrechet-Souza L, Schratz CL, Gilpin NW. Sex differences in traumatic stress reactivity in rats with and without a history of alcohol drinking. *Biology of Sex Differences* 11: 27, 2020.

Albrechet-Souza L, Gilpin NW. The predator odor avoidance model of post-traumatic stress disorder in rats. *Behavioural Pharmacology* 30: 105-14, 2019.

Albrechet-Souza L, Viola TW, Grassi-Oliveira R, Miczek KA, De Almeida RMM. Corticotropin releasing factor in the bed nucleus of the stria terminalis in socially defeated and non-stressed mice with a history of chronic alcohol intake. *Frontiers in Pharmacology* 8: 762, 2017.

Albrechet-Souza L, Hwa LS, Han X, Zhang EY, DeBold JF, Miczek KA. Corticotropin releasing factor binding protein and CRF 2 receptors in the ventral tegmental area: Modulation of ethanol binge drinking in C57BL/6J mice. *Alcoholism, Clinical and Experimental Research* 39: 1609-18, 2015.

### **Additional Info**

[Curriculum Vitae](#)