

## CURRICULUM VITAE

**Date of Revision: (02, 26, 2020)**

**Name:** Janitza L. Montalvo-Ortiz, Ph.D.

**Current position:** Tenure-Track Assistant Professor, Department of Psychiatry

**School:** Yale University School of Medicine

### **Education:**

B.A. University of Puerto Rico, Rio Piedras Campus (Biology) 2009

Ph.D. Northwestern University (Neuroscience) 2014

### **Career/Academic Appointments:**

2006-09 Research Assistant, Biology Department, University of Puerto Rico, San Juan, PR

2006 Research Assistant, Department of Psychiatry and Behavioral Sciences, Duke University, Durham, NC

2007 Research Assistant, Department of Psychiatry, University of Minnesota, Minneapolis, MN

2008 Research Assistant, Department of Physiology, Northwestern University, Chicago, IL

2010-14 Predoctoral Fellow, Department of Psychiatry and Behavioral Sciences, Northwestern University, Chicago, IL

2014-16 Postdoctoral Fellow, Department of Psychiatry, Yale University, New Haven, CT

2016-18 Postdoctoral Associate, Department of Psychiatry, Yale University, New Haven, CT

2018- Assistant Professor, Department of Psychiatry, Yale University, New Haven, CT

### **Professional Honors & Recognition**

#### **International/National/Regional**

2019: Career Development Award, Department of Veteran's Affairs

2019: Certificate in Columbia Epigenetics Boothcamp

2018: Society of Biological Psychiatry's Domestic Travel Fellowship Award, Society of Biological Psychiatry

2017: NARSAD Young Investigator Award, Brain & Behavior Research Foundation

2017: NIDA Diversity Scholars Network Program, National Institute on Drug Abuse

2017: Certificate in Neuroepigenetics and Epitranscriptomics Advanced Course, Italy

2016: Research Supplement to Promote Diversity in Health-Related Research, National Institute on Drug Abuse

2014: Neuroscience Scholars Program Associate, Society of Neuroscience

2013: Mental Health Research Dissertation Grant Award, National Institute of Mental Health

2009: Neuroethics Writing Prize Runner-Up, Neuroethics Society

2006: Neuroscience Poster Presentation Award, Annual Biomedical Research Conference for Minority Students

#### **University**

2018: Faculty Excellence and Diversity Initiative Fellowship Award, Yale University

2016: Best Grant Award, Department of Psychiatry, Yale University School of Medicine

- 2014: Biological Science Training Program Postdoctoral Fellowship, Yale University School of Medicine
- 2011: Multidisciplinary Clinical and Translational Training Grant Award, Northwestern University School of Medicine
- 2010: Collaborative Learning and Integrative Mentoring in the Biosciences Program, Northwestern University
- 2009: Best Scientific Research in Biology Award, University of Puerto Rico
- 2007: Minority Access to Research Careers Training Program, University of Puerto Rico
- 2006: Research Initiative for Scientific Enhancement (RISE) Training Program, University of Puerto Rico
- 2005: Puerto Rico Louis Stokes Alliance for Minority Participation Program, University of Puerto Rico
- 2004: University of Puerto Rico Dean's List, University of Puerto Rico

### **Current Grants**

Agency: Department of Veteran's Affairs

ID#: 1 IK2CX002095-01A1

Title: "Identifying Biomarkers of Post-traumatic Stress Disorder in U.S. Veterans using an Integrative Multi-Omics Approach"

P.I.: Janitza L. Montalvo-Ortiz, Ph.D.

Percent effort: 100%

Direct costs per year: \$224,905

Total costs for project period: \$1,056,402

Project period: 01/01/2020 – 12/31/2024

Agency: Yale University

Title: "Faculty Excellence and Diversity Initiative Fellowship Award"

P.I.: Janitza L. Montalvo-Ortiz, Ph.D.

Percent effort: 100%

Direct costs per year: \$25,000

Total costs for project period: \$75,000

Project period: 10/01/2018 – 09/31/2021

### **Past Grants**

Agency: The Brain & Behavior Research Foundation

ID#: NARSAD, 25191

Title: "Epigenetics of Depression in Early Sexually Abused Females"

P.I.: Janitza L. Montalvo-Ortiz, Ph.D.

Percent effort: 15%

Direct costs per year: \$30,000

Total costs for project period: \$70,000

Project period: 01/15/2017 – 01/14/2019

Agency: NIH/NIDA

I.D.# R01 DA012690-13S

Title: "Genetics of Opioid Dependence"

P.I.: Joel Gelernter, M.D.

Role on Project: Postdoctoral Associate

Percent effort: 85%  
Project period: 08/01/2016 – 07/31/2019

Agency: NIH/NIMH  
I.D.# 5T32MH014276-41  
P.I.: Ronald Duman, Ph.D.  
Role on project: Postdoctoral Trainee  
Percent effort: 100%  
Project period: 08/01/2014 – 07/31/2016

Agency: NIH/NIMH  
I.D.# 1R36MH100912-01A1  
Title: “Epigenetic modulation of antipsychotic-induced side effects in aged mice”  
P.I.: Janitza L. Montalvo-Ortiz, Ph.D.  
Percent effort: 100%  
Project period: 01/01/2014 – 07/31/2014

Agency: NIH/NIMH  
I.D.# 5TL1RR025739-04  
Title: Northwestern University Clinical and Translational Sciences Institute  
P.I.: Greenland  
Percent effort: 100%  
Role on project: Predoctoral Trainee  
Project period: 09/01/2011 – 08/31/2012

Agency: NIH/NIGMS  
I.D.# R25 GM079300-02  
Title: Collaborative Learning and Integrative Mentoring in the Biosciences Scholar Training Program  
P.I.: Richard McGee, Ph.D.  
Percent effort: 100%  
Role on project: Predoctoral Trainee  
Project period: 09/01/2009 – 05/30/2011

Agency: NIH/NIGMS  
I.D.# 5T34GM07821  
Title: Minority Access to Research Careers (MARC) Program  
P.I.: Reginald Morales, Ph.D.  
Percent effort: 100%  
Role on project: Undergraduate Trainee  
Project period: 07/01/2007 – 05/30/2011

Agency: NIH/NIGMS  
I.D.# R25GM061151  
Title: Research Initiative for Scientific Enhancement (RISE) Program  
P.I.: Reginald Morales, Ph.D.  
Percent effort: 100%  
Role on project: Undergraduate Trainee  
Project period: 08/01/2006 – 05/30/2007

Agency: NSF  
I.D.# HRD0601843  
Title: Puerto Rico Louis Stokes Alliance for Minority Participation (PR-LSAMP) Program  
P.I.: Gomez  
Percent effort: 100%  
Role on project: Undergraduate Trainee  
Project period: 08/01/2005 – 05/30/2006

**Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:**

**International/National**

2019: National Center for Posttraumatic Stress Disorder, CT VA Healthcare, West Haven, CT, “Epigenomics of Post-traumatic Stress Disorder in Veterans”.

Seminario Especial de Biología, Departamento de Biología, Universidad de Puerto Rico, Recinto de Río Piedras, San Juan, PR, “Dissecting the Genomic and Epigenomic Profiles of Substance Use Disorders”.

Seminario de Biología. Departamento de Biología, Universidad de Puerto Rico, Recinto de Cayey, Cayey, PR, “Of Mice and Human: Dissecting the Genomic and Epigenomic Landscape of Aggressive Behavior”.

Seminario Extraordinario de Investigación, Department of Molecular Neurobiology and Neuropathology, Instituto de Neurociencias, Universidad de Alicante. San Vicente del Raspeig, Alicante, Spain, “Of mice and men: Investigating the genomic and epigenomic landscape of aggressive behavior”.

2018: Psychiatry Seminar, University of Chicago, Chicago, IL, “Genomic and epigenomic landscape of aggressive behavior”.

Psychiatry and Behavioral Sciences Seminar, Northwestern University, Chicago, IL, “Genomic and epigenomic landscape of aggressive behavior”.

2017: Neuroepigenetics and Epitranscriptomics Seminar Series, Neuroscience School of Advanced Studies, Certosa di Pontignano, Siena, Italy, “Child abuse and epigenetic mechanisms of disease risk”.

2016: SACNAS National Conference Long Beach Convention Center, Long Beach, CA, “The Postdoc Hunt: Tools and Strategies for a Smooth PhD Transition”

Hispanic Heritage Celebration, Conte West Hills Magnet School, New Haven, CT, “My career path: From Puerto Rico to Yale”

**Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale:**

2019: Society of Biological Psychiatry Conference (Chicago, IL), World Congress of Psychiatric Genetics (Anaheim, CA).

- 2018:Society of Biological Psychiatry Conference (New York City, NY).  
2017:Neuroepigenetics and Epitranscriptomics Seminar Series (Siena, Italy), World Congress of Psychiatric Genetics (Orlando, FL), American Society of Human Genetics (Orlando, FL).  
2016:Society of Biological Psychiatry Conference (Atlanta, GA).  
2015:College of International Neuropsychopharmacology (CINP) Conference (Dublin, Ireland), American Society of Human Genetics (ASHG) (Baltimore, MD).  
2014:Northwestern University Interdepartmental Neuroscience (NUIN) Seminar Series (Northwestern University, IL), Friday's Digest from the Department of Psychiatry (Northwestern University, IL).  
2013:Society for Neuroscience (San Diego, CA), Neuroscience Day (Northwestern University, IL), Grand Rounds from the Department of Psychiatry (Northwestern University, IL).  
2012:National Clinical and Translational Science Predoctoral Programs Meeting (Mayo Clinic, MN), Drug Discovery for Neurodegeneration Conference: An Intensive Course on Translating Research into Drugs (New York, NY), Society for Neuroscience (New Orleans, LA).  
2011:Alzheimer's Research Day (Northwestern University), Society for Neuroscience (Washington, DC), Research Day (Northwestern University), Neuroscience Day (University of Chicago, IL).  
2010:Society for Neuroscience (San Diego, CA), Alzheimer's Research Day (Northwestern University, IL).  
2008:Society for Neuroscience (Washington, DC), Puerto Rico Interdisciplinary Scientific Meeting (San Juan, PR).  
2007:Puerto Rico Interdisciplinary Scientific Meeting (Mayaguez, PR).  
2006:Annual Biomedical Research Conference for Minority Students (Anaheim, CA).

## Professional Service

### Journal Service:

Editor/Associate Editor

2018-present Academic Editor, *PLOS ONE*

### Reviewer

2016-present Ad hoc Reviewer for  
*Social Psychiatry and Psychiatric Epidemiology*  
*The American Journal of Addictions*  
*The World Journal of Biological Psychiatry*  
*Neuroscience Letters*  
*Neuropsychopharmacology*.

### Yale University Service:

#### *University Committees*

2019- Board Member, Diversity Committee, Department of Psychiatry  
2016-2017 Board Member, Women in Science at Yale (WISAY)  
Reviewer, Yale Ciencia Academy

## Bibliography:

### Peer-Reviewed Original Research

1. de Araujo CM, Hudziak J, Crocetti D, Wymbs NF, **Montalvo-Ortiz JL**, Orr C, Albaugh M, Althoff RR, O'Loughlin, Holbrook H, Garavan H, Yang BZ, Mostofsky S, Jackowski A, Gelernter J, Kaufman J. *Psychiatry Research: Neuroimaging*. In press.
2. Wymbs NF, Orr C, Albaugh MD, Althoff RR, O-Loughlin K, Holbrook H, Garavan H, **Montalvo-Ortiz JL**, Mostofsky S, Hudziak J, Kaufman J. (2020) Social supports moderate the effects of child adversity on neural correlates of threat processing. *Child Abuse Negl.* Feb 14; 102:104413. PMID: 32065988.
3. Xu K, **Montalvo-Ortiz JL**, Zhang X, Southwick SM, Krystal JH, Pietrzak RH, Gelernter J. (2019) Epigenome-Wide DNA Methylation Association Analysis Identified Novel Loci in Peripheral Cells for Alcohol Consumption Among European American Male Veterans. *Alcohol Clin Exp Res.* Aug 6. PMID: 31386212.
4. **Montalvo-Ortiz JL**, Cheng Z, Kranzler HR, Zhang H, Gelernter J. (2019) Genomewide Study of Epigenetic Biomarkers of Opioid Dependence in European-American Women. *Sci Rep.* Mar 15;9(1):4660. PMID: 30874594.
5. Tamman A, **Montalvo-Ortiz JL**, Southwick S, Krystal JH, Levy BR, Pietrzak RH. (2019) Accelerated DNA Methylation Aging in U.S. Military Veterans: Results from the National Health and Resilience in Veterans Study. *Am J Geriatr Psychiatry.* May;27(5):528-532. PMID: 30792041.
6. Kaufman J, **Montalvo-Ortiz JL**, Yang BZ, Orr C, Holbrook H, O'Loughlin K., Wang T, Zhao H, Althoff R, Garavan H, Gelernter J, Hudziak J. (2018) Adverse Childhood Experiences, Epigenetic Measures, and Obesity in Youth. *The Journal of Pediatrics.* Nov;202:150-156.e3. PMID: 30177354.
7. Kaufman J, Wymbs NF, **Montalvo-Ortiz JL**, Orr C, Albaugh M, Althoff R, O'Loughlin K, Holbrook H, Garavan H, Kearney C, Yang BZ, Zhao H, Peña C, Nestler EJ, Mostofsky S, Gelernter J, Hudziak J. (2018) Methylation in OTX2 and related genes, maltreatment, and depression in children. *Neuropsychopharmacology.* Jul 21. PMID: 30089883.
8. **Montalvo-Ortiz JL**, Zhou H, D'Andrea I, Maroteaux L, Lori A, Smith A, Ressler KJ, Nuñez Y, Farrer, LA, Zhao H, Kranzler HR, Gelernter J. (2018) Translational studies support a role for serotonin 2B receptor (HTR2B) gene in aggression-related cannabis response. *Molecular Psychiatry.* Jun 6. PMID: 29875475.
9. Dong H, Keegan JM, Hong E, Gallardo C, **Montalvo-Ortiz JL**, Wang B, Rice KC, Csernansky J. (2018) Corticotrophin releasing factor receptor 1 antagonists prevent chronic stress-induced behavioral changes and synapse loss in aged rats. *Psychoneuroendocrinology* Apr;90:92-101. PMID: 29477954.
10. **Montalvo-Ortiz JL**, Zhang H, Chen C, Liu C, Coccaro EF. (2017) Genome-Wide DNA Methylation Changes Associated with Intermittent Explosive Disorder: A Gene-Based Functional Enrichment Analysis. *Int J Neuropsychopharmacol.* Nov 2 doi: 10.1093/ijnp/pyx087. PMID: 29106553.
11. **Montalvo-Ortiz JL**. (2017) A New Perspective on the Mechanisms of Neglect. *Biol Psychiatry.* Oct 1. PMID:28870299.
12. **Montalvo-Ortiz JL**, Fisher DW, Rodriguez G, Fang D, Csernansky JG, Dong H. (2017) Histone deacetylase inhibitors reverse age-related increases in side effects of haloperidol in mice. *Psychopharmacology.* Apr 18. PMID: 28421257.
13. **Montalvo-Ortiz JL**, Bordner KA, Carlyle BC, Gelernter J, Simen AA, Kaufman J. (2016) The Role of Genes Involved in Stress, Neural Plasticity, and Brain Circuitry in Depressive Phenotypes: Convergent findings in a Mouse Model of Neglect. *Behav Brain Res.* Aug 6; pii: S0166-4328(16)30502-2. PMID: 27506655.
14. Varghese SP#, **Montalvo-Ortiz JL**#, Csernansky JG, Eiger RI, Herrold AA, Koola MM, Dong H. (2015) EarlyLife Stress as a Risk Factor for Substance Use Disorders: Clinical and Neurobiological Substrates. *Indian J Psychol Med.* 2015 Jan-Mar;37(1):36-41. PMID: 25722510, #Joint first-authors.
15. **Montalvo-Ortiz J**, Keegan J, Gallardo C, Gerst N, Tetsuka K, Tucker C, Matsumoto M, Fang D, Csernansky JG, Dong H. (2014) HDAC inhibitors restore the capacity of aged mice to respond to

haloperidol through modulation of histone acetylation. *Neuropsychopharmacology* 39(6):1469-78. PMID:24366052.

**16.** Dong H, Wang S, Zeng Z, Li F, **Montalvo-Ortiz J**, Tucker C, Akhtar S, Shi J, Meltzer HY, Rice KC, Csernansky JG. (2014) Corticotropin-releasing hormone receptor 1 antagonists decrease amyloid- $\beta$  and improve cognitive function in Tg2576 mice. *Psychopharmacology* 231(24):4711-22. PMID: 24862368.

**17.** Morales-Rivera A, Hernandez-Burgos MM, Martinez-Rivera A, Perez-Colon J, Rivera R, **Montalvo-Ortiz J**, Rodriguez-Borrero E, Maldonado-Vlaar CS. (2014) Anxiolytic effects of oxytocin in cue-induced cocaine seeking behavior in rats. *Psychopharmacology* 231(21):4145-55. PMID: 24760374.

**18.** Dong H, Murphy KM, Meng LP, **Montalvo-Ortiz J**, Kolber BJ, Zhang S, Muglia LJ, Csernansky JG. (2011) Corticotrophin releasing factor accelerates neuropathology and cognitive decline in a mouse model of Alzheimer's disease. *Journal of Alzheimer's disease* 11(1):1-14. PMID: 22045495.

**19.** Levin E, Perkins A, Brotherton T, Qazi M, Berez C, **Montalvo-Ortiz J**, Davis K, Williams P, Christopher NC. (2009) Chronic underactivity of medial frontal cortical  $\beta$ 2-containing nicotinic receptor increases clozapine-induced working memory impairment in female rats. *Progress in Neuro-Psychopharmacology & Biological Psychiatry* 33(2):296-302. PMCID: PMC2684503.

**20.** Rodríguez-Borrero E, Rivera-Escalera F, Candelas F, **Montalvo-Ortiz J**, Muñoz-Miranda WJ, Walker JR, Maldonado-Vlaar C. (2009) Arginine vasopressin gene expression changes within the nucleus accumbens during environmental-elicited cocaine-conditioned response in rats. *Neuropharmacology* 58(1):88-101. PMCID: PMC2783825.

**21.** **Montalvo-Ortiz J**. (2008) Should fMRI lie-detection technology be admitted in courtrooms? *Penn Bioethics Journal* 4(2):16-20.

### Chapters, Books, and Reviews

**1.** Kaufman J., **Montalvo-Ortiz JL**, Lee R. Child Maltreatment and Psychopathology. *Genes, Brain and Emotions: From Resilience to Psychopathology* (2019) Eds. Miu AD, Homberg JR, Lesch, KP.

**2.** **Montalvo-Ortiz JL**, Gelernter J, Hudziak J, Kaufman J. (2016) RDoC and translational perspectives on the genetics of trauma-related psychiatric disorders. *Am J Med Genet B Neuropsychiatr Genet*. Jan;171(1):81-91. Epub 2015 Nov 22. Review. PMID: 26592203.