Marvin R. Diaz, PhD

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mdiaz@binghamton.edu

EDUCATIONAL HISTORY

Ph.D. Wake Forest University Health Sciences, Winston-Salem, NC, USA (5/09)
Neuroscience
Dissertation: A Study on the Effects of Chronic Alcohol and Withdrawal on the Glutamate, GABA, and Dopamine Systems in the Basolateral Amygdala of Sprague-Dawley Rats. Advisor: Brian A. McCool, PhD.

B.S. University at North Carolina at Wilmington, NC (12/03)

ACADEMIC POSITIONS/EMPLOYMENT HISTORY

2020 – present Associate Professor (Psychology Department)
Binghamton University

2014 – 2020 Assistant Professor (Psychology Department)
Binghamton University

2011 – 2014 Postdoctoral Fellow (under C. Fernando Valenzuela, MD, PhD)
University of New Mexico HSC

2010 – 2011 Postdoctoral Fellow (under Brian A. McCool, PhD)
Wake Forest University Health Sciences

2009 – 2010 Postdoctoral Research Fellow (under Brian A. McCool, PhD).
Wake Forest University Health Sciences

2002 – 2004 Assistant Extractionist
Paradigm Analytical Laboratory
Wilmington, NC

STUDENT COMMITTEES

Master Thesis Committee Member (Andrew Vore) – 2015
Master Thesis Committee Member (Dominika Hosova) – 2015
Master Thesis Committee Member (Robin Zimmer) – 2017
Master Thesis Committee Member (Thaddeus Barney) – 2018
Master Thesis Committee Member (Joceyln Solis-Moreria) – 2018
Master Thesis Committee Member (Joshua Madera) – 2019
Master Thesis Committee Member (Paige Marsland) – 2019
Master Thesis Committee Member (Ashley Bui) – 2019
Master Thesis Committee Member (Steven Pilato) – 2019
Master Thesis Committee Member (Mary Spodnick) – 2020
Master Thesis Committee Member (Harper Coleman) – 2022
Master Thesis Committee Member (Alexandra Athanason) – 2022

Master Thesis Committee Member (Gavin Vaughn) – 2022
Master Thesis Committee Member (Andi Liss) – 2022
Preliminary Examination (Alexander Denman-Brice) – 2015
Preliminary Examination/Dissertation Committee Member (Daniel Popoola) – 2015-2017
Preliminary Examination (Jonathan Gore-Langton) – 2017
Preliminary Examination (Dominika Hosova) – 2017
Preliminary Examination (Andrew Vore) – 2017
Preliminary Examination (Thaddeus Barney) – 2018
Preliminary Examination (Jocelyn Solis-Moreria) – 2018
Preliminary Examination (Paige Marsland) – 2019
Preliminary Examination (Ashley Bui) – 2019
Dissertation Committee Member (Alexander Denman-Brice) – 2017
Dissertation Committee Member (Olga Escanilla) – 2017
Dissertation Committee Member (Dennis Lovelock) – 2018
Dissertation Committee Member (Thaddeus Barney) – 2020-2021

TRAINEES

Undergraduate:
Jesse M. Cole – Honors Thesis (2017)
Juliana Conti
Yonaida Valentine (**URM**)
Fred Rodriguez (**URM**)
Michael Pileski
Allison Regan
Rhea Marfatia – Honors Thesis (2020)
Diana Ferreyra (**URM**)
Michelle Montero (**URM**)
Emily Tweerie
Dana Silberman
Sophie Roth
Clare Wiberg
Margaret Agakanov
Valentina Sica

Graduate:
Kathryn Przybysz – Masters (2017); PhD (2021); RSA Small Grant, APA Dissertation Award
Siara Rouzer – Masters (2017), PhD (2021); F31 recipient
Meredith Gamble – Masters (2020)
Mary Spodnick – Masters (2021)
Sarah Winchester – Diversity Supplement recipient

Postdoc:
Kelcie Schatz, PhD

REVIEWER

Alcoholism: Clinical and Experimental Research

Addiction Biology
Alcohol
Alpenglow
Behavioral Pharmacology
Behavioral Sciences
Behavioral Brain Research
Biological Psychiatry
Brain, Behavior, and Immunity
Brain Research
Brain Research Bulletin
Brain Sciences
Brain Structure and Function
British Journal of Pharmacology
Developmental Psychobiology
Drug and Alcohol Dependence
Frontiers in Genetics
Frontiers in Neuroscience
Frontiers in Psychiatry
Genes, Brain, and Behavior
Heliyon
International Journal of Developmental Neuroscience
International Journal of Environmental Research and Public Health
International Journal of Molecular Sciences
International Journal of Neuropsychopharmacology
iScience
Journal of Clinical Medicine
Journal of Mental Health Research in Intellectual Disabilities
Journal of Neurophysiology
Journal of Neuroscience Research
Neuropeptides
Neuropharmacology
Neuropsychopharmacology
Neuroscience
Nicotine and Tobacco
Nutrients
Pharmacological Research
Pharmacology, Biochemistry, and Behavior
Physiological Reports
Psychoneuroendocrinology
Psychopharmacology
Scientific Reports
Stress
Substance Abuse: Research and Treatment

RESEARCH INTERESTS

My primary research focus is to understand the neurobiological adaptations that lead to deficits in emotional processing following developmental substance and stress exposure. Furthermore, to determine alterations in the neural circuitries that lead to a predisposition for anxiety and alcohol/drug misuse.

PUBLICATIONS

Peer Reviewed Publications

Budygin EA, Oleson EB, Mathews TA, Lack AK, Diaz MR, McCool BA, and Jones SR. (2007) Effects of chronic alcohol exposure on dopamine uptake in rat nucleus accumbens and caudate putamen. *Psychopharmacology*. 193(4):495-501

- Managed chronic alcohol exposure and prepared tissue for experiments

Läck A.K.*, Diaz M.R.*, Dubois D.W., and McCool B.A. (2007) Chronic Ethanol and Withdrawal Differentially Modulate Pre- and Post-synaptic Function at Glutamatergic Synapses in Rat Basolateral Amygdala. *J. Neurophysiology*. 98(6):3185-96.

- * - equally contributed to experimental design, data collection, analysis, and writing

Läck AK, Christian DT, Diaz MR, McCool BA. (2009) Chronic ethanol and withdrawal effects on kainate receptor-mediated excitatory neurotransmission in the rat basolateral amygdala. *Alcohol.* 43(1):25-33

- Involved in data collection and analysis

Silberman Y, Bajo M, Chappell AM, Christian DT, Cruz M, Diaz MR, Kash T, Lack AK, Messing RO, Siggins GR, Winder D, Roberto M, McCool BA, Weiner JL. (2009) Neurobiological mechanisms contributing to alcohol-stress-anxiety interactions. *Alcohol*.;43(7):509-19.

- Involved in data collection and analysis

McCool BA, Christian DT, Diaz MR, Läck AK. (2010) Glutamate plasticity in the drunken amygdala: the making of an anxious synapse. *Int Rev Neurobiol*. 91:205-33.

- Involved in writing

Diaz M.R., Chappell A.M., Christian D.T., McCool B.A. (2011) Dopamine D3 Receptors Modulate Anxiety-like Behvaior and Regulate GABAergic Transmission in the Rat Lateral/Basolateral Amygdala. *Neuropsychopharmacology* 36:1090-103.

- Primary contributor to experimental design, data collection, analysis, and writing

Diaz M.R., Christian D.T., Anderson N.J, McCool B.A. (2011) Chronic Ethanol and Withdrawal Differentially Modulate Local Feedback and Lateral Paracapsular Feedforward Interneurons of the Basolateral Amygdala. *J. Pharm. Exp. Ther*. 337:162-70.

- Primary contributor to experimental design, data collection, analysis, and writing

Diaz M.R., Wadleigh, A., Hughes B.A., Woodward J.J, Valenzuela, C.F. (2012)

Bestrophin1 channels are insensitive to ethanol and do not mediate tonic GABAergic currents in cerebellar granule cells. *Front. Neurosci. Jan 11;5:148. doi: 10.3389/fnins.2011.00148.*

- Primary contributor to experimental design, data collection, analysis, and writing

Christian, D.T., Anderson, N.A., Diaz, M.R., Robinson, S., McCool, B.A. (2012) Chronic Intermittent Ethanol and Withdrawal Differentially Modulate Basolateral Amygdala AMPA-type Glutamate Receptor Function and Trafficking. *Neuropharmacology;* Jun;62(7):2429-38.

- Involved in data collection and analysis

Valenzuela, C.F., Morton, R.A., Diaz, M.R., Topper, L. (2012) Does moderate drinking harm the fetal brain? Insights from animal models. *TINS Review.*

- Involved in writing

Christian, D.T., Alexander, N.A., Diaz, M.R., McCool, B.A. (2012) Thalamic Glutamatergic Afferents into the Rat Basolateral Amygdala Exhibit Increased Presynaptic Glutamate Function Following Withdrawal from Chronic Intermittent Ethanol. *Neuropharmacology*; Sep 13. pii: S0028-3908(12)00476-5. [Epub ahead of print]

- Involved in data collection and analysis

Brady, M.L., Diaz, M.R., Iuso, A., Everett, J.C., Valenzuela, C.F., Caldwell, K.K. (2013) Moderate prenatal alcohol exposure reducesd plasticity and alters NMDA receptor subunit composition in the dentate gyrus. *J Neurosci. Jan 16;33(3):1062-7.*

- Involved in data collection, analysis, and writing

Diaz M.R., Wadleigh, A., Kumar, S., Schutter E.D., Valenzuela, C.F. Na^+/K^+-ATPase Inhibition Partially Mimics the Ethanol-induced Increase of the Golgi Cell-dependent Component of the Tonic GABAergic Current in Rat Cerebellar Granule Cell (2013) *PloS One; 2013;8(1):e55673. doi: 10.1371/journal.pone.0055673. Epub 2013 Jan 31*

- Primary contributor to experimental design, data collection, analysis, and writing

Diaz, M.R. and Morton, R.A. Ethanol Untangles the Amygdala-Anxiety Circuit through Tonic GABA Inhibition (2013) *Alcoholism: Clinical and Experimental Research; DOI: 10.1111/acer.12298*

- Primary contributor to writing

Diaz, M.R., Vollmer C., Zamudio-Bulcock, P.A., Vollmer, W., Blomquist, S., Morton, R.A., Everett, J.C., Zurek, A.A., Yu, J., Orser, B.A., Valenzuela, C.F. Repeated intermittent alcohol exposure during the third trimester-equivalent increases expression of the GABAA receptor δ subunit in cerebellar granule neurons and delays motor development in rats (2014) *Neuropharmacology,* 274 Apr;79:262-74

- Primary contributor to experimental design, data collection, analysis, and

writing

Diaz, M.R., Jotty, K., Locke, J.L., Jones, S.A., Valenzuela, C.F. Moderate alcohol exposure during the rat equivalent to the third trimester of human pregnancy triggers homeostatic changes in the dopaminergic system of the basolateral amygdala (2014) *Front. Pediatr.*, doi: 10.3389/fped.2014.00046

- Primary contributor to experimental design, data collection, analysis, and writing

Morton, R.A., Diaz, M.R., Topper, L., Valenzuela, C.F. Construction of vapor chambers to expose mice to alcohol during the equivalent of all three trimesters of human development (2014) *JoVE Jul 13;(89). doi: 10.3791/51839*

- Contributed in experimental design, data collection, analysis, and writing

Baculis, B., Diaz, M.R., Valenzuela, C.F. Exposure of Rats to Ethanol during the Equivalent to the Last Trimester of human Pregnancy Increases Anxiety-like Behavior and Glutamatergic Transmission in the Basolateral Amygdala (2015) *Pharmacology, Biochemistry and Behavior*, pii: S0091-3057(15)30046-0. doi: 10.1016/j.pbb.2015.08.009

- Primary contributor to experimental design, data collection, analysis, and writing

Diaz, M.R. and Valenzuela, C.F. Sensitivity of GABAergic tonic currents to acute ethanol in cerebellar granule neurons is not age- or δ subunit-dependent in developing rats (2016) *Alcoholism: Clinical and Experimental Research*; Jan;40(1):83-92. doi: 10.1111/acer.12940.

- Primary contributor to experimental design, data collection, analysis, and writing

Carter, J.M., Landin, J.D., Gigante, E.D., Rieger, S.P., Diaz, M.R., Werner, D.F. Inhibitors of calcium activated anion channels modulate sedative-hynoptic ethanol responses in adult Sprague-Dawley rats (2016) – *Alcoholism: Clinical and Experimental Research*; Feb;40(2):301-8. doi: 10.1111/acer.12957.

- Involved in data interpretation and writing

Diaz, M.R., Mooney, S.M., Varlinskaya, E.I. Acute prenatal exposure to ethanol elicits social deficits and social anxiety-like alterations in Sprague-Dawley rats (2016) – *Behavioural Brain Research*; 310:11-9. doi: 10.1016/j.bbr.2016.05.003.

- Primary contributor to experimental design, data collection, analysis, and writing

Przybysz, K.R., Werner, D.F., Diaz, M.R. Age-dependent regulation of GABA

transmission by kappa opioid receptors in the basolateral amygdala of Sprague-Dawley rats (2017) – *Neuropharmacology*; Feb 2. pii: S0028-3908(17)30035-7. doi: 10.1016/j.neuropharm.2017.01.036.

- Primary contributor to experimental design, data collection, analysis, and writing

Rouzer, S.K., Cole, J.M., Johnson, J.M., Varlinksaya, E.I., Diaz, M.R. Moderate maternal alcohol exposure on gestational day 12 impacts anxiety-like behaviors in offspring (2017) – *Frontiers in Behavioral Neuroscience*; doi: 10.3389/fnbeh.2017.00183.

- Primary contributor to experimental design, data collection, analysis, and writing

Diaz, M.R., Przybysz, K.R., Rouzer, S.K. Age as a factor in stress and alcohol interactions: a critical role for the kappa opioid system (2017) – *Alcohol*; ;72:9-18. doi: 10.1016/j.alcohol.2017.10.002.

- Primary contributor to writing

Varlinskaya, E.I., Spear, L.P., Diaz, M.R. Stress alters social behavior and sensitivity to pharmacological activation of kappa opioid receptors in an age-specific manner in Sprague Dawley rats (2018) – *Neurobiology of Stress*; 9:124-132.

- Primary contributor to experimental design, data collection, analysis, and writing

Varlinskaya, E.I., Przybysz, K.R., Johnson, J.M., Deak, T., Diaz, M.R. Adolescent forced swim stress increases social anxiety-like behaviors and alters the dynorphin/kappa opioid receptor system in the basolateral amygdala of males (2020) – *Progress in Neuropsychopharmacology and Biological Psychiatry*, 98:109812. doi: 10.1016/j.pnpbp.2019.109812

- Primary contributor to experimental design, data collection, analysis, and writing

Przybysz, K.R., Diaz, M.R. Age and sex regulate kappa opioid receptor-mediated anxiety-like behavior in rats (2020) – *Behavioral Brain Research*, 379:112379. doi: 10.1016/j.bbr.2019.112379

- Primary contributor to designing experiments, data collection, analysis and interpretation, and writing

Gamble M.E. and Diaz M.R. (2020) Moderate Adolescent Ethanol Vapor Exposure and Acute Stress in Adulthood: Sex-Dependent Effects on Social Behavior and Ethanol Intake in Sprague-Dawley Rats. *Brain Sciences*; doi: 10.3390/brainsci10110829

- Primary contributor to designing experiments, data collection, analysis and interpretation, and writing

Diaz M.R., Johnson J.M., Varlinskaya E.I. (2020) Increased ethanol intake is associated with social anxiety in offspring exposed to ethanol on gestational day 12. *Behavioral Brain Research*. doi: 10.1016/j.bbr.2020.112766.

- Primary contributor to designing experiments, data interpretation, and writing

Rouzer, S.A. and Diaz, M.R. Factors of sex and age dictate the regulation of GABAergic activity by corticotropin-releasing factor receptor 1 in the medial sub-nucleus of the central amygdala. b*ioRxiv.* https://doi.org/10.1101/2020.07.22.215947.
- Primary contributor to designing experiments, data collection, analysis and interpretation, and writing

Rouzer, S.A. and Diaz, M.R. Factors of sex and age dictate the regulation of GABAergic activity by corticotropin-releasing factor receptor 1 in the medial sub-nucleus of the central amygdala – *Neuropharmacology.* doi: 10.1016/j.neuropharm.2021.108530.
- Primary contributor to designing experiments, data collection, analysis and interpretation, and writing

Przybysz, K.R., Gamble, M.R., Diaz, M.R. Moderate adolescent chronic intermittent ethanol exposure sex-dependently disrupts synaptic transmission and kappa opioid receptor function in the basolateral amygdala of adult rats – *Neuropharmacology.* 188:108512. doi: 10.1016/j.neuropharm.2021.108512
- Primary contributor to designing experiments, data collection, analysis and interpretation, and writing

Rouzer, S.A. and Diaz, M.R. Moderate prenatal alcohol exposure modifies sex-specific CRFR1 activity in the central amygdala and anxiety-like behavior in adolescent offspring – *Neuropsychopharmacology.* doi: 10.1038/s41386-022-01327-z
- Primary contributor to designing experiments, data collection, analysis and interpretation, and writing

Gamble M.E., Marfatia, R., Diaz, M.R. Prenatal methadone exposure leads to long-term memory impairments and disruptions of dentate granule cell function in a sex-dependent manner. *Addiction Biology*; doi.org/10.1111/adb.13215.
- Primary contributor to designing experiments, data collection, analysis and interpretation, and writing

Przybysz, K.R., Spodnick, M.B, Varlinksaya, E.I., Diaz, M.R. Moderate prenatal alcohol exposure impairs basolateral amygdala to prelimbic cortex function and social behavior – *Addiction Biology.* doi.org/10.1111/adb.13252
- Primary contributor to designing experiments, data collection, analysis and interpretation, and writing

Gamble M.E., Diaz, M.R. Prenatal methadone exposure leads to disruptions in adult-born dentate granule cell survival and female persistent fear responding. *Addiction Neuroscience*; doi.org/10.1016/j.addicn.2023.100120.
- Primary contributor to designing experiments, data collection, analysis and interpretation, and writing

Under Review

PRESENTATIONS

Non-Refereed Addresses, Symposia, and Contributed Oral Presentations at Professional Meetings

Diaz, M.R. (2012, June). Impact of 3rd-Trimester-Equivalent Alcohol Exposure on Tonic and Phasic GABAergic Neurotransmission in the Developing Cerebellum. Symposium presented at the annual meeting of the Research Society on Alcoholism, San Francisco, CA.

Diaz, M.R. (Co-Organizer) (2014, June). Alcohol Exposure During the 3rd Trimester-Equivalent Disrupts Dopamine Modulation of GABA Transmission in the Basolateral Amygdala. Symposium presented at the annual meeting of the Research Society on Alcoholism, Bellevue, WA.

Diaz, M.R. (Co-Organizer) (2018, June). Adolescent stress-induced anxiety and ethanol consumption: alterations in basolateral amygdala kappa opioid receptor function. Symposium presented at the annual meeting of the Research Society on Alcoholism, San Diego, CA.

Diaz, M.R. (Co-Organizer) (2019, June). Prenatal alcohol exposure induces alterations in CRF systems in the adolescent central amygdala. Symposium presented at the annual meeting of the Research Society on Alcoholism, Minneapolis, MN.

Diaz, M.R. (2021, June). Sex-dependent effects of prenatal alcohol exposure on CRF1 receptor function in the adolescent central amygdala. Symposium presented at the annual meeting of the Research Society on Alcoholism (virtual)

Diaz, M.R. (2022, June). Prenatal Methadone Exposure Produces Age- and Sex-Dependent Changes in Alcohol Intake and Underlying Neural Substrates. Symposium presented at the annual meeting of the Research Society on Alcoholism, Orlando, FL.

Invited Oral Presentations

Diaz, M.R. (2014, September). “Long-term functional alterations following G12 ethanol exposure”. Presentation for Developmental Exposure Alcohol Research Center (DEARC) meeting, Binghamton University, NY.

Diaz, M.R. (2017, May). “Adolescent Stress-Induced Anxiety: A Role for Basolateral Amygdala Kappa Opioid Receptors”. Young Investigator Award Symposium at Volterra: Stress and Alcoholism conference, Volterra, Italy

Diaz, M.R. (2021, September). “Transitioning from a postdoc to faculty: Grant writing & setting yourself up for success”. National Hispanic Science Network, Virtual Conference.

Diaz, M.R. (2022, June). A Spectrum of Sex-Dependent Prenatal Alcohol Effects in Emotion Circuits: Insights into Fetal Alcohol Spectrum Disorder. Enhanced Interdisciplinary Research Training Institute on Hispanic Substance Abuse meeting, Pasadena, CA.

Diaz, M.R. (2022, August). Prenatal Opioid Exposure: a new Spectrum Disorder on the horizon. Bowles Alcohol Center for Alcohol Studies, UNC Chapel Hill, NC.

Diaz, M.R. (2022, October). “Prenatal Alcohol Rewires Anxiety Circuits Across Development”. Gordon Research Conference: Alcohol and the Nervous System, Oxnard, CA.

Diaz, M.R. (2023, March). Prenatal Opioid Exposure: a new Spectrum Disorder on the horizon. Louisiana State University Health Science Center, LA.

Diaz, M.R. (2023, June). Lasting Consequences of Prenatal Methadone Exposure on Hippocampal Function & Learning/Memory. Enhanced Interdisciplinary Research Training Institute on Hispanic Substance Abuse meeting, Los Angeles, CA.

RESEARCH GRANTS

On-going

Project Title:	DEARC Main 1: Prenatal alcohol exposure: sex differences in effects on adolescent EtOH drinking, anxiety and associated neural circuitry
Principal Investigator:	J. David Jentsch, PhD
Role on Project:	Co-Investigator
Project Period:	09/2018 – 08/2023 (no cost extension)
Funding Source:	National Institute of Alcohol Abuse and Alcoholism
Grant Number:	P50AA017823
Total Award:	$1,000,000

Project Title:	DEARC Main 3: Developmental sensitivities to alcohol: opposing actions of cytokines on fear conditioning during intoxication and withdrawal
Principal Investigator:	Terrence Deak, PhD
Role on Project:	Co-Investigator
Project Period:	09/2018 – 08/2023 (no cost extension)
Funding Source:	National Institute of Alcohol Abuse and Alcoholism
Grant Number:	P50AA017823
Total Award:	$1,000,000

Project Title:	Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF
Principal Investigator:	Marvin R. Diaz, PhD
Role on Project:	Principal Investigator
Project Period:	06/2021 – 03/2026
Funding Source:	National Institute of Alcohol Abuse and Alcoholism
Grant Number:	R01 AA028566
Total Award:	$1,740,470.00

Project Title: Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Principal Investigator
Project Period: 08/2022 – 03/2025
Funding Source: National Institute of Alcohol Abuse and Alcoholism
Grant Number: R01 AA028566-S1
Total Award: $177,068

Project Title: Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF
Principal Investigator: Marvin R. Diaz, PhD and Kelcie Schatz, PhD
Role on Project: Sponsor
Project Period: 05/2023 – 04/2025
Funding Source: National Institute of Alcohol Abuse and Alcoholism
Grant Number: **F**32 AA031185
Total Award: $138,580

Pending

Project Title: Impact of prenatal alcohol and methadone exposure on dopamine regulation of BLA plasticity
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Principal Investigator
Funding Source: National Institute of Alcohol Abuse and Alcoholism
Grant Number: R21 AA030917-01A1
Total Award: $250,000

Completed

Project Title: Impact of Prenatal Ethanol on BLA Synaptic Plasticity
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Principal Investigator
Project Period: 04/2020 – 03/2022 (no cost extension)
Funding Source: National Institute of Alcohol Abuse and Alcoholism
Grant Number: R21 AA027873
Total Award: $250,000

Project Title: Long-term effects of prenatal methadone exposure on anxiety
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Principle Investigator
Funding Source: Binghamton University Harpur Faculty Research Grant
Grant Type: Internal University Grant
Total Award: $10,000

Project Title: Prenatal alcohol exposure, CRF and adolescent anxiety

Principal Investigator: Marvin R. Diaz, PhD and Siara Rouzer, MS
Role on Project: Sponsor
Funding Source: National Institute of Alcohol Abuse and Alcoholism
Grant Number: 1F31AA028166-01
Total Award: $59,484

Project Title: Long-term effects of adolescent ethanol exposure on BLA kappa opioid receptor function
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Principal Investigator
Funding Source: Binghamton University Presidential Diversity Research Grant
Grant Type: Pilot Grant
Total Award: $5,000

Project Title: Effects of Prenatal Opioid Exposure
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Principal Investigator
Funding Source: Binghamton University Psychology Department
Grant Type: Internal Departmental Funds
Total Award: $15,862

Project Title: The Effects of Prenatal Alcohol Exposure on kappa opioid receptors in the Basolateral Amygdala
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Project Coordinator
Funding Source: National Institute of Alcohol Abuse and Alcoholism /NIH Loan Repayment Award
Proposed Project Period: 10/01/18 – 09/30/2019
Total Award: $14,315

Project Title: Role of BLA kappa opioid receptors in adolescent anxiety and ethanol consumption
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Principal Investigator
Proposed Project Period: 09/25/2016 – 08/31/2018
Funding Source: National Institute of Alcohol Abuse and Alcoholism
Grant Number: R03AA024890-01A1
Total Award: $100,000

Project Title: Impact of Prenatal Ethanol on the Anxiety Circuit
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Principal Investigator
Proposed Project Period: 09/01/2015 – 08/31/2017

Funding Source: National Institute of Alcohol Abuse and Alcoholism
Total Award: $60,000

Project Title: The Effects of Prenatal Alcohol Exposure on Glutamate and GABA transmission in the Basolateral Amygdala
Principal Investigator: Marvin R. Diaz, PhD
Role on Project: Project Coordinator
Funding Source: National Institute of Alcohol Abuse and Alcoholism /NIH Loan Repayment Award
Proposed Project Period: 07/01/14 – 06/30/2015
Total Award: $16,602

Project Title: The Effects of 3rd Trimester-Equivalent Chronic Ethanol Exposure on the Development of Cerebellar Circuits
Principal Investigator: C. Fernando Valenzuela, MD, PhD and Marvin R. Diaz, PhD
Role on Project: Project Coordinator
Funding Source: National Institute of Alcohol Abuse and Alcoholism /NIH Loan Repayment Award
Proposed Project Period: 07/01/11 – 06/30/2013
Total Award: $33,995.91

Project Title: Alcohol and cerebellar circuits
Principle Investigator: C. Fernando Valenzuela, MD, PhD
Grant Number: R01 AA014973-07SI
Role on Project: Project Coordinator and supplementary support
Funding Source: National Institute of Alcohol Abuse and Alcoholism /Research Supplements to Promote Diversity in Health-Related Research Program
Proposed Project Period: 02/2011 – 01/2014

Project Title: Chronic Alcohol and Withdrawal on Dopamine and GABA in the basolateral amygdala
Principle Investigator: Marvin R. Diaz, Ph.D
Funding Source: National Institute of Alcohol Abuse and Alcoholism / NRSA
Grant Number: F31 AA017576-02
Project Period: 05/2007 – 05/2009

Project Title: The Ethanol-Anxiety Interactions: Cellular Mechanisms
Principle Investigator: Brian A. McCool, Ph.D
Grant Number: R01 AA014445-03S1
Funding Source: National Institute of Alcohol Abuse and Alcoholism /Research Supplements to Promote Diversity in Health-Related Research Program
Proposed Project Period: 08/2005 – 08/2007

Other Grants/Awards

Title: Equipment request
Date: 09/2014
Total Award: $5399
Funding Source: SUNY-Binghamton Department of Psychology

Title: SUNY Faculty Diversity Program Award
Date: 09/2014
Total Award: 85% of Salary for 3 years + $15,000
Funding Source: SUNY Office of Diversity, Equity and Inclusion

TEACHING EXPERIENCE/COURSES TAUGHT

Techniques in Neural Circuit Assessment – 2021-present
Drugs and Behavior – 2017-present
Neurobiology of Development – 2015-present
Cellular and Molecular Mechanisms of Fetal Alcohol Spectrum Disorders – 2014-present
Neurobiology of Alcoholism - 2013
Neurochemistry lecture – GABA systems - 2013

PROFESSIONAL HONORS, RECOGNITIONS, AFFILIATIONS

Honors

Binghamton University Subvention Award – 2022
Volterra 2017 Young Investigator Award – 2017
Dean's Research Semester Award – 2016
Gordon Conference Carl Storm underrepresented Minority Fellowship Award - 2014
NIDA Diversity Supplements Workshop Travel Award – 2014
SUNY Faculty Diversity Award – 2014
NIDA mini convention "Frontiers in Addiction Research" Travel Award – 2012
Volterra 2011 "Stress and Alcohol" Travel Award - 2011
NIH Loan Repayment Program Award – 2011, 2014, 2018

Affiliations

Current	Research Society on Alcoholism
Current	Fetal Alcohol Spectrum Disorders Study Group
Current	International Narcotics Research Conference
Current	International Society for Biomedical Research on Alcoholism
Current	Society for Neuroscience
Current	Center for Developmental and Behavioral Neuroscience
Current	Developmental Exposure Alcohol Research Center
2004 – 2010	Western North Carolina Chapter of the Society for Neuroscience

SERVICE

NIAAA ZAA1 study section CC ad hoc member – 2023
Educational Policy and Priorities Committee – 2021-present
Associate Director for DNA2 T32 – 2020-present
NIAAA AA4 study section standing member – 2020-present
Speaker for BU Alumni Donor Association - 2020
Alumni speaker at Wake Forest University School of Medicine – 2019, 2023
B-SMART Panelist – 2019-present
IACUC Member – 2019-present
Speaker for Campus Neuroscience Society - 2018
Panelist for Freshman Lunch - 2017
Faculty Senate – 2016-2018
Psychology Dept Colloquium Committee – 2016-2017
Harpur College Council – 2015-2016
Psychology Dept Awards Committee – 2015-2016, 2019-2020
Panel Member for Faculty Orientations – 2015
Psychology Department Faculty Search Committee – 2014, 2017, 2019