

CURRICULUM VITAE

Nicholas W. Gilpin

Current Title: Professor
Business email Address: ngilpi@lsuhsc.edu

Education:

Undergraduate	University of Texas at Austin B.A. in Psychology B.A. in Spanish Language	1996-2000
Graduate/Medical	Purdue University Ph.D. in Psychology	2001-2005
Post-Doctoral Fellowship	The Scripps Research Institute	2005-2011

Academic, Professional, and Research Appointments:

Assistant Professor, Physiology Department, LSUHSC	2011-2016
Assistant Professor, Neuroscience Ctr. of Excellence, LSUHSC	2011-2016
Assistant Professor, Alcohol & Drug Abuse Ctr. of Excellence, LSUHSC	2013-2016
Associate Director, Alcohol & Drug Abuse Ctr. of Excellence, LSUHSC	2015-
Associate Professor w/Tenure, Physiology Department, LSUHSC	2016-2019
Associate Professor w/Tenure, Neuroscience Center, LSUHSC	2016-2019
Associate Professor w/Tenure, Alcohol & Drug Abuse Center, LSUHSC	2016-2019
Research Physiologist, Department of Veteran Affairs (V.A.)	2017-
Professor w/Tenure, Physiology Department, LSUHSC	2019-
Professor w/Tenure, Neuroscience Center, LSUHSC	2019-
Professor w/Tenure, Alcohol & Drug Abuse Center, LSUHSC	2019-
Vice Chair of Research, Physiology Department, LSUHSC	2020-

Membership in Professional Organizations:

Research Society on Alcoholism (RSA); member	2001-
Society for Neuroscience (SfN); member	2004-
Int'l. Society for Biomedical Res. on Alcoholism (ISBRA); member	2010-
National Hispanic Science Network on Drug Abuse (NHSN); member	2010-
International Drug Abuse Research Society (IDARS); member	2013-
American Coll. of Neuropsychopharmacology (ACNP), Assoc. member	2014-
American Coll. of Neuropsychopharmacology (ACNP), Member	2019-

Awards and Honors:

University of Texas at Austin Honors Colloquium Scholarship	1996
U. of Texas Academic Hispanic Award; 4-year academic scholarship	1996-2000
RSA Memorial Award, San Diego, CA	2009
Young Investigator Award; Alcoholism & Stress meeting, Volterra, Italy	2011
NHSN National Award of Excellence in Research by a New Investigator	2011
ACNP Travel Award	2012
Honorable Mention for Ziskind-Somerfeld Award, SoBP	2012
IDARS Young Investigator Award	2013
Presidential Early Career Award for Scientists & Engineers (PECASE)	2017
<i>Awarded by the White House Office of Science & Technology to 102 scientists and engineers in the early stages of their independent research careers</i>	
Elected Co-Chair of Gordon Research Conference on Alcohol & CNS	2018

Will serve as co-vice chair 2018-2020 and co-chair 2020-2022.

TEACHING EXPERIENCE AND RESPONSIBILITIES

Curriculum Development/Implementation

Created curriculum for LSUHSC Physiology Special Topics Course (PHYSIO 289) titled *Biostatistics for Graduate Students*.

Formal Course Responsibilities

Graduate Teaching

Course Director:

LSU Health Sciences Center

Biostatistics for graduate students (PHYSIO 289)	2013-present
Human Physiology for dental students (DENT 1115)	2016-present

Course Co-Director:

LSU Health Sciences Center

Human Physiology for dental students (DENT 1115)	2013-2016
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Co-Instructor/Lecturer:

LSU Health Sciences Center

Human Physiology (DENT 1115)	2011-present
Synaptic Organization of Behavior (ANAT 264)	2014
Molecular Neurobiology (NEURO 250)	2014
Modern Breakthroughs in Biomedical Sciences	2014
Dental Grand Rounds mentor (DENT 4112)	2017-present

Undergraduate Teaching

Course Director:

San Diego State University

Statistical Methods in Psychology (PSY 270)	2008
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Univ. of California-San Diego

Introduction to Statistics (PSYC 60)	2009-2011
Physiological Psychology (PSYC 106)	2010

Co-Instructor:

LSU Health Sciences Center

Human Physiology for nursing students (HS 2410)	2011-2016
Human Pathophysiology for nursing students (HS 3410)	2012-2016
General & Oral Physiology for dental hygiene (DHY 3202)	2012

Junior Faculty Research Development Committee Chair:

1. Scott Edwards, Ph.D., Assistant Professor of Physiology, LSUHSC
2. Tiffany Wills, Ph.D., Assistant Professor of Cell Biology, LSUHSC
3. Liz Simon, Ph.D., Assistant Professor of Physiology, LSUHSC
4. Jason Gardner, Ph.D., Associate Professor of Physiology, LSUHSC
5. Lisa Harrison-Bernard, Ph.D., Assoc. Prof. of Physiology, LSUHSC
6. Flavia Souza-Smith, Ph.D., Assistant Professor of Physiology, LSUHSC
7. Xinping Yue, Ph.D., Assistant Professor of Physiology, LSUHSC

8. Stefany Primeaux, Ph.D, Assistant Professor of Physiology, LSUHSC
9. Robert Siggins, Ph.D., Assistant Professor of Physiology, LSUHSC

Junior Faculty & Fellows & Students Trained:

Instructors:

1. Michael Salling, Ph.D. 2019-
 - Mentor on K99/R00 from NIAAA

Instructors:

1. Elizabeth Avegno, Ph.D. 2018-
2. Lucas Albrechet-Souza, Ph.D. 2018-

Post-Doctoral Fellows:

LSU Health Sciences Center

1. Brandon Baiamonte, Ph.D. 2012-2013
2. Emily Roltsch, Ph.D. 2012-2014
3. Annie Whitaker, Ph.D. 2012-2016
4. Christy Itoga, Ph.D. 2014-2016
5. Elizabeth Avegno, Ph.D. 2016-2018
 - Mentor on F32 from NIAAA
6. Udit Datta, Ph.D. 2017-2018
7. Marcus Weera, Ph.D. 2017-
 - Mentor on F32 from NIAAA
8. Amanda Pahng, Ph.D. (co-mentor) 2017-
 - Primary mentor starting January 2020
 - Mentor on CDA from V.A.
9. Elizabeth Fucich, Ph.D. (co-mentor) 2017-
 - Co-mentor on F32 from NIAAA
10. Lucas Albrechet-Souza, Ph.D. 2018
11. Christian Montanari, Ph.D. 2019-
12. Alejandra Jacotte, Ph.D. 2019-

Graduate Students

LSU Health Sciences Center

Major Professor

1. Brittney Baynes; Physiology; chair M.S. committee 2013-2014
2. Allyson Schreiber; Physiology; chair Ph.D. committee 2014-2018
 - Mentor on F30 from NIAAA
3. Alicia Ray-Botello; Physiology; chair M.S. committee 2015-2017
4. Zachary Stielper; Physiology; chair Ph.D. committee 2017-2020
 - Mentor on F30 from NIAAA
5. Taylor Templeton; Physiology; chair Ph.D. committee 2018-
6. Nathan Sharfman; Physiology; chair Ph.D. committee 2019-

Dissertation Committee (member)

1. Xu "Sophie" Teng; Ph.D., LSUHSC Physiology 2012-2014
2. Travis Doggett; Ph.D., LSUHSC Physiology 2013-2014
3. Aram Asatryan; Ph.D., LSUHSC Neuroscience 2013-2014
4. Jacques Mayeux; Ph.D., LSUHSC Physiology 2014-2016
 - Co-mentor on F31 from NIAAA

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| 5. Alan Mouton; Ph.D., LSUHSC Physiology | 2014-2017 |
| 6. Adrienne McGinn; Ph.D., LSUHSC Physiology | 2015-2019 |
| • Co-mentor on F31 from NIAAA | |
| 7. Krystal Belmonte; Ph.D., LSUHSC Physiology | 2018- |
| 8. Eleanor Holmgren; Ph.D., LSUHSC Cell Biology | 2020- |
| 9. Jessica Cucinello; Ph.D., LSUHSC Physiology | 2020- |

Other universities

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| 1. Xin Fu; Ph.D., Tulane Neuroscience | 2016- |
| 2. Dennis Parker Kelley; Ph.D., LSU Comp. Biomed. Sci. | 2019- |
| 3. Matthew Watson; Ph.D., Tulane Neuroscience | 2020- |

Medical Students

Summer Research Rotations

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| 1. Madelyn Weil | 2012 |
| 2. Abdelrahim Abdel | 2012 |

Foreign Research Interns

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| 1. Pauline Estival
Pharmacy student at Université d'Auvergne, France | 2015 |
| 2. Tomasz Bielwaski
Ph.D. student at Wroclaw Medical University, Poland | 2019 |

RESEARCH AND SCHOLARSHIP

Grants and Contracts:

Active

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| 1R01AA023305-01
National Institutes of Alcoholism and Alcohol Abuse & General Medical Sciences
Role of Neuropeptides in Stress-Induced Escalation of Alcohol Drinking
<i>The overall goal of this project is to test the role of amygdala neuropeptides in co-morbid high stress reactivity and alcohol abuse.</i>
Role: PI | 2014-2025 |
| 1I01BX003451-01A1
Department of Veteran Affairs
Targeting Melanocortin-4 Receptors to Reduce Pain in U.S. Veterans
<i>The goal of this project is to test the role of brain melanocortin signaling in mediating hyperalgesia after traumatic stress or induction of alcohol dependence.</i>
Role: PI | 2017-2021 |
| 1R01AA026531-01
NIH/NIAAA
Traumatic stress increases alcohol drinking via endocannabinoid disinhibition of basolateral amygdala
<i>This study examines the role of brain endocannabinoid signaling in post-stress escalation of alcohol drinking.</i>
Role: MPI (with Jeffrey Tasker) | 2017-2022 |
| 1R01HL135635-01 (PI: Jason Gardner)
NIH/NHLBI | 2017-2021 |

Chronic Nicotine Inhalation Increases Susceptibility to Cardiovascular and Pulmonary Diseases Through Inhibition of Local Compensatory Mechanisms.

This study examines the effects of chronic nicotine inhalation on cardiovascular and pulmonary outcomes.

Role: Co-I

1R44DA046300-01 (PI: Maury Cole)

2018-2021

NIH/NIDA

Development of Nicotine Vapor Inhalation Chambers for Rodent Self-Administration

This study develops and optimizes nicotine e-cigarette vapor self-administration in rats.

Role: Subcontract PI

1R01AA025792-01A1

2018-2023

NIH/NIAAA

Alcohol and Traumatic Brain Injury; Neuronal and Behavioral Consequences

This study examines the neurobiological basis for traumatic brain injury effects on alcohol-related behavior and physiology.

Role: MPI (with Patricia Molina)

3R01AA025792-03S1

2020-2021

NIH/NIAAA

Alcohol and Traumatic Brain Injury; Neuronal and Behavioral Consequences

This supplement examines the underlying mechanisms of post-TBI neurodegeneration and risk for Alzheimer's Disease.

Role: MPI (with Patricia Molina)

1U01AA028709-01

2020-2025

NIH/NIAAA

8/8 NADIA U01 Long-Term Effects of Adolescent Alcohol on Pain

This study tests the role of amygdala peptide systems in heightened pain after adolescent alcohol exposure.

Role: MPI (with Tiffany Wills)

1R21AA026022-01A1

2018-2020

NIH/NIAAA

Generation and validation of a CRFR1-cre transgenic rat to study alcohol dependence

This study generates and validates a new transgenic rat for the neuroscience field.

Role: PI

1R13AA028237-01

2019-2023

NIH/NIAAA

Travel Support for the 7th International Drug Abuse Research Society (IDARS) Meeting

This award provides travel support for junior U.S.-based scientists attending the IDARS meeting.

Role: PI

1F32AA025831-01 (PI: Elizabeth Avgeno)

2017-2021

NIH/NIAAA

Brain Reward and Stress System Interactions in Alcohol Dependence

This fellowship trains a post-doctoral fellow in alcohol research and examines the interaction of brain stress and reward systems in alcohol dependence.

Role: Mentor

1F32AA027145-01A1 (PI: Marcus Weera) 2019-2021

NIH/NIAAA

The role of amygdala outputs in stress-induced escalation of alcohol drinking

This fellowship trains a post-doctoral fellow in alcohol research and examines the neurobiology underlying stress-induced escalation of alcohol drinking.

Role: Mentor

1F30AA026468-01A1 (PI: Zachary Stielper) 2018-2023

NIH/NIAAA

The Role of Amygdalar Endocannabinoids in Alcohol Drinking after Traumatic Brain Injury (TBI)

This fellowship trains an M.D./Ph.D. student in alcohol research and examines the neurobiological basis for TBI effects on alcohol-related behavior and physiology.

Role: Mentor

1F31AA028445-01 (PI: Jessica Cucinello) 2020-2023

NIH/NIAAA

Regulation of Pain by Alcohol and Endocannabinoids in the Basolateral Amygdala

This project tests the role of BLA eCBs in mediating pain-alcohol interactions.

Role: Co-mentor

Completed

Underrepresented minority supplement to R01AA12857 2002-2005

NIH/NIAAA

Neuropeptide Y and Alcohol Related Behaviors

Role: Student (PI: Badia-Elder)

The overall goal of this project was to train a graduate student in neuroscience research aimed at understanding the genetic basis for alcoholism.

1F32 AA016436-01A1 2007-2009

Ruth L. Kirschstein NRSA Postdoctoral Fellowship

NIH/NIAAA

Neuropeptide Y and Ethanol Abstinence

Role: PI

The overall goal of this project was to train a post-doctoral fellow in neuroscience research aimed at understanding the neurobiological basis of alcohol dependence.

5R00AA018400-05 2010-2015

K99/R00 Pathway to Independence (PI) Award

NIH/NIAAA

Post-traumatic Stress Disorder and Alcohol Dependence

Role: PI

The overall goal of this project was to identify neurobiological mechanisms that underlie excessive alcohol drinking by rats with high traumatic stress reactivity.

PFund Pilot Funding for New Research 2013

Louisiana Board of Regents

Using Optogenetic Stimulation to Measure Reward Function in Drug- and Alcohol-Dependent Rats

Role: PI

The overall goal of this project was to establish the use of optogenetic stimulation in the lab for the measurement of brain reward function in rodents.

ABMRF

2013-2015

ABMRF Foundation for Alcohol Research Role of Melanocortin-4 Receptors (MC4Rs) in Chronic Alcohol-Induced Changes in Thermal Sensitivity

Role: PI

The overall goal of this project was to test the role of brain MC4Rs in excessive alcohol drinking and hyperalgesia during alcohol withdrawal in alcohol-dependent rats.

2P60AA009803-22

2014-2016

NIH/NIAAA

LSUHSC-NO Comprehensive Alcohol-HIV/AIDS Research Center

Role: PI of Information Dissemination Core

The overall goal of this Core was to impact alcohol- and HIV-related knowledge, attitudes and behaviors by educating lay people, practicing and in-training health care providers, and scientists on the neurobiological basis and biomedical consequences of alcohol use and abuse, and the risk factors and biological underpinnings of HIV.

1R21AA022690-01A1

2014-2016

NIH/NIAAA

Ethanol-Induced Cardiac Fibrosis and Dysfunction are Mediated by NADPH Oxidases

Role: Co-I (PI: Jason Gardner)

The overall goal of this project was to identify the mechanisms responsible for alcohol-induced cardiac injury.

P30GM103340

2015-2016

NIH COBRE Pilot

Synaptic Mechanism of Inhibitor-2 in the Escalated Anxiety in Alcohol Disorder

Role: Collaborator (Pilot PI: Houhui Xia, Ph.D.)

3R01AA023305-02S1

2015-2016

NIH Office of Research on Women's Health & NIAAA

Role of Neuropeptides in Stress-Induced Escalation of Alcohol Drinking

Role: PI

The goal of this supplement was to test Aim 1 of the parent R01 in female rats.

1F30AA023696-01 (PI: Allyson Schreiber)

2015-2020

National Institute of Alcoholism and Alcohol Abuse

Prefrontal Cortex Stress Peptides in Traumatic Stress-Induced Escalation of Alcohol Drinking

This fellowship trains an M.D./Ph.D. student in neuroscience research aimed at understanding the neurobiological basis of stress-induced escalation of alcohol drinking.

Role: Mentor

1F31AA025812-01A1 (PI: Adrienne McGinn)

2017-2019

NIH/NIAAA

Alcohol Dependence and Pain: Role of Cingulate Cortex Glucocorticoid Receptors
This fellowship trains a Ph.D. student in alcohol research and examines the neurobiological intersection of pain and alcohol dependence.

Role: Co-mentor

1R01AA026531 Supplement 2018-2020

Cohen Veterans Biosciences (CVB)

Traumatic stress increases alcohol drinking via endocannabinoid disinhibition of basolateral amygdala

This study examines traumatic stress reactivity and its association with specific central and peripheral biomarkers.

Role: PI

1R21AA025736-01 (PI: Scott Edwards) 2017-2019

NIH/NIAAA

Role of GluA1 in the Escalation of Alcohol Drinking in Nicotine-Dependent Animals

This study examines the role of brain AMPA receptors in mediating nicotine-alcohol interactions.

Role: Co-I

1F32AA026779-01A1 (PI: Elizabeth Fucich) 2018-2020

NIH/NIAAA

Stress effects on traumatic brain injury: neural mechanisms of escalated alcohol drinking.

This project tests the neurobiology underlying stress and TBI interaction effects on alcohol drinking.

Role: Co-mentor

Journal Publications:

Refereed:

Empirical Articles:

1. **Gilpin, N.W.**, Stewart, R.B., Murphy, J.M., Li, T.-K., Badia-Elder, N.E. (2003). Neuropeptide Y reduces oral ethanol intake in alcohol-preferring (P) rats following a period of imposed ethanol abstinence. *Alcoholism: Clinical and Experimental Research* 27:787-94.
2. **Gilpin, N.W.**, Stewart, R.B., Murphy, J.M., Li, T.-K., Badia-Elder, N.E. (2004). Neuropeptide Y in the paraventricular nucleus of the hypothalamus increases ethanol intake in high- and low-alcohol-drinking rats. *Alcoholism: Clinical and Experimental Research* 28:1492-8.
3. **Gilpin, N.W.**, Stewart, R.B., Elder, R.L., Kho, Y., Murphy, J.M., Li, T.-K., Badia-Elder, N.E. (2004). Sedative and motor-impairing effects of neuropeptide Y and ethanol in selectively-bred P and NP rats. *Pharmacology, Biochemistry & Behavior* 78:65-73.
4. **Gilpin, N.W.**, Stewart, R.B., Murphy, J.M., Badia-Elder, N.E. (2005). Sensitized effects of neuropeptide Y on multiple ingestive behaviors in P rats following ethanol abstinence. *Pharmacology, Biochemistry & Behavior*, 81:740-9.
5. **Gilpin, N.W.**, Stewart, R.B., Badia-Elder, N.E. (2008). Neuropeptide Y (NPY) suppresses ethanol responding in ethanol-abstinent, but not non-ethanol-abstinent, Wistar rats. *Alcohol* 42:541-51.
6. **Gilpin, N.W.**, Badia-Elder, N.E., Elder, R.L., Stewart, R.B. (2008). Schedule-induced polydipsia in lines of rats selectively bred for high and low ethanol preference. *Behavior Genetics* 38:515-24.

7. **Gilpin, N.W.**, Richardson, H.N., Koob, G.F. (2008). Effects of CRF1-receptor and opioid-receptor antagonists on dependence-induced increases in alcohol drinking by alcohol-preferring (P) rats. *Alcoholism: Clinical and Experimental Research* 32:1535-42.
8. **Gilpin, N.W.**, Richardson, H.N., Lumeng, L., Koob, G.F. (2008). Dependence-induced alcohol drinking by alcohol-preferring (P) rats and outbred Wistar rats. *Alcoholism: Clinical and Experimental Research* 32:1688-96.
9. Roberto, M., **Gilpin, N.W.**, O'Dell, L.E., Morse, A.C., Siggins, G.R., Koob, G.F. (2008). Cellular and behavioral rationale for gabapentin treatment of alcohol dependence. *Journal of Neuroscience* 28:5762-71.
 - A. Press release by *Journal of Neuroscience* published in:
 - I. *Nature News*: online 28 May 2008; doi:10.1038/news.2008.859
 - II. *Science Daily*: online May 28, 2008; retrieved from <http://www.sciencedaily.com/releases/2008/05/080528121256.htm>
 - B. Gilpin, N.W., Koob, G.F., Roberto, M. (2008) Response to "Anxious to drink: gabapentin normalizes GABAergic transmission in the central amygdala and reduces symptoms of ethanol dependence." *Journal of Neuroscience*.
10. **Gilpin, N.W.**, Stewart, R.B., Badia-Elder, N.E. (2008). Neuropeptide Y administration into the amygdala suppresses ethanol drinking in alcohol-preferring (P) rats following multiple deprivations. *Pharmacology, Biochemistry & Behavior* 90:470-4.
11. **Gilpin, N.W.**, Misra K., Koob G.F. (2008). Neuropeptide Y in the central nucleus of the amygdala suppresses dependence-induced increases in alcohol drinking. *Pharmacology, Biochemistry & Behavior* 90:475-80.
12. Ji, D.*, **Gilpin, N.W.***, Richardson, H.N., Rivier, C.L., Koob, G.F. (2008). Effects of naltrexone, duloxetine, and a CRF₁ receptor antagonist on binge-like alcohol drinking in rats. *Behavioral Pharmacology* 19:1-12.
13. **Gilpin, N.W.**, Smith, A., Cole, M., Weiss, F., Koob, G.F., Richardson, H.N. (2009) Operant behavior and alcohol levels in blood and brain of alcohol-dependent rats. *Alcoholism: Clinical and Experimental Research* 33:2113-23.
14. **Gilpin, N.W.**, Koob, G.F. (2010) Effects of β -adrenoceptor antagonists on alcohol drinking by alcohol-dependent rats. *Psychopharmacology* 212:431-9.
15. Roberto M., Cruz M.T., **Gilpin N.W.**, Sabino V., Schweitzer P., Cottone P., Madamba S.M., Stouffer D., Zorrilla E.P., Koob G.F., Siggins G.R., Parsons L.H. (2010) Corticotropin Releasing Factor-Induced Amygdala Gamma-Aminobutyric Acid Release Plays a Key Role in Alcohol Dependence. *Biological Psychiatry* 67:831-9.
 - A. Press release by The Scripps Research Institute published in:
 - I. *USA Today*: online January 29, 2010; retrieved from http://www.usatoday.com/news/health/2010-01-29-stress-alcoholism_N.htm?csp=usat.me
 - II. *Science Daily*: online January 26, 2010; retrieved from <http://www.sciencedaily.com/releases/2010/01/100125173452.htm>
16. **Gilpin, N.W.**, Wright, Jr., M.J., Dickinson, G., Vandewater, S.A., Price, J.U., Taffe, M.A. (2011) Influences of activity wheel access on the body temperature response to MDMA and methamphetamine. *Pharmacology, Biochemistry & Behavior* 99:295-300.
17. **Gilpin, N.W.**, Misra, K., Herman, M.A., Cruz, M.T., Koob, G.F., Roberto, M. (2011) Neuropeptide Y opposes alcohol effects on GABA release in amygdala and blocks the transition to alcohol dependence. *Biological Psychiatry* 69:1091-9.
 - A. Finalist for Ziskind-Somerfeld Award from the Society of Biological Psychiatry
 - B. Press release by The Scripps Research Institute published in:
 - I. *Science Daily*: online May 31, 2011; retrieved from <http://www.sciencedaily.com/releases/2011/05/110531135703.htm>

II. *Drug Discovery News*: online June 7, 2011; retrieved from

<http://www.drugdiscoverynews.com/index.php?newsarticle=5056>

18. **Gilpin, N.W.**, Stewart, R.B., Badia-Elder, N.E. (2011) Effects of neuropeptide Y (NPY) and ethanol on arousal and anxiety-like behavior in alcohol-preferring (P) rats. *Alcohol* 45:137-45.
19. **Gilpin, N.W.**, Karanikas, C.A., Richardson, H.N. (2012). Voluntary alcohol binge drinking early in adolescence alters drinking, anxiety, and amygdalar corticotropin releasing factor (CRF) cells in adult male rats. *PLoS One* 7: e31466. doi:10.1371/journal.pone.0031466.
20. Kallupi, M., Vendruscolo, L.V., Carmichael, C.Y., George, O., Koob, G.F., **Gilpin, N.W.** (2013) Neuropeptide Y Y2R Blockade in the Central Amygdala Reduces Anxiety-Like Behavior but not Alcohol Drinking in Alcohol-Dependent Rats. *Addiction Biology* 19:755-7.
21. Edwards, S., Baynes, B., Carmichael, C.Y., Zamora-Martinez, E.R., Barrus, M., Koob, G.F., **Gilpin, N.W.** (2013) Traumatic Stress Reactivity Promotes Excessive Alcohol Drinking and Alters the Balance of Prefrontal Cortex-Amygdala Activity. *Translational Psychiatry* 3:e296; doi:10.1038/tp.2013.70.
22. Roltsch, E.A., Baynes, B.B., Mayeux, J.P., Whitaker, A.M., Baiamonte, B.A., **Gilpin, N.W.** (2014) Predator Odor Stress Alters Corticotropin-Releasing Factor-1 Receptor (CRF1R)-Dependent Behaviors in Rats. *Neuropharmacology* 79:83-89.
23. Baiamonte, B.A., Valenza, M., Roltsch, E.A., Whitaker, A.M., Baynes, B.B., Sabino, V., **Gilpin, N.W.** (2014) Nicotine dependence produces hyperalgesia: role of corticotropin-releasing factor-1 receptors (CRF1Rs) in the central amygdala (CeA). *Neuropharmacology* 77:217-223.
24. **Gilpin, N.W.**, Roberto, M., Koob, G.F., Schweitzer, P. (2014) Kappa opioid receptor activation decreases inhibitory transmission and antagonizes alcohol effects in rat central amygdala. *Neuropharmacology* 77:294-302.
25. **Gilpin, N.W.**, Whitaker, A.M., Baynes, B., Abdel, A.Y., Weil, M.T., George O. (2014) Nicotine vapor inhalation escalates nicotine self-administration. *Addiction Biology* 19:587-92.
26. El Hajj, E.C., Voloshenyuk, T.G., El Hajj, M.C., Mouton, A.J., Khoutorova, E., Hart, A.D., Baynes, B., Molina, P.E., **Gilpin, N.W.**, Gardner, J.D. (2014) Alcohol modulation of MMP and TIMP expression in the heart favors collagen accumulation. *Alcoholism: Clinical and Experimental Research* 38:448-56.
27. Vargas, W.M., Bengston, L., **Gilpin, N.W.**, Whitcomb, B.W., Richardson, H.N. (2014) Alcohol binge drinking during adolescence or dependence during adulthood reduces prefrontal myelin in male rats. *Journal of Neuroscience* 34:14777-82.
 - A. Featured Article in *Journal of Neuroscience*.
 - B. Press release by UMass-Amherst published in:
 - I. *Science Daily*: online October 28, 2014; retrieved from <http://www.sciencedaily.com/releases/2014/10/141028214137.htm>
 - II. *New England Public Radio*: online October 30, 2014; retrieved from <http://nepr.net/news/2014/10/30/study-binge-drinking-alterns-brain-in-rats/>
28. Mayeux, J.P., Teng, X.T., Katz, P.S., **Gilpin, N.W.**, Molina, P.E. (2015) Traumatic brain injury induces neuroinflammation and neuronal degeneration that is associated with escalated alcohol self-administration in rats. *Behavioural Brain Research* 279:22-30.
29. Teng, X.T., Katz, P.S., Maxi, J.M., Mayeux, J.P., **Gilpin, N.W.**, Molina, P.E. (2015) Alcohol exposure after mild focal traumatic brain injury impairs neurological recovery and exacerbates localized neuroinflammation. *Brain Behavior & Immunity* 45:145-56.
30. Whitaker, A.M., **Gilpin, N.W.** (2015) Blunted hypothalamo-pituitary adrenal axis

- response to predator odor predicts high stress reactivity. *Physiology & Behavior* 147:16-22.
31. Whitaker, A.M., Farooq, M.A., Edwards, S., **Gilpin, N.W.** (2015) Post-Traumatic Stress Avoidance is Attenuated by Corticosterone and Associated with Brain Levels of Steroid Receptor Co-Activator-1 in Rats. *Stress* 20:1-9.
 32. Mouton, A.J., Ninh, V.K., El Hajj, E.C., **Gilpin, N.W.**, Gardner, J.D. (2016) Exposure to Chronic Alcohol Accelerates Development of Wall Stress and Eccentric Remodeling in Rats with Volume Overload. *Journal of Molecular and Cellular Cardiology* 97:15-23.
 33. Di, S., Itoga, C.A., Fisher, M.O., Solomonow, J., Roltsch, E.A., **Gilpin, N.W.**, Tasker, J.G. (2016) Acute stress suppresses synaptic inhibition and increases anxiety via endocannabinoid release in the basolateral amygdala. *Journal of Neuroscience* 36:8461-70.
 34. Mouton, A.J., Maxi, J.K., Souza-Smith, F.M., Bagby, G.J., **Gilpin, N.W.**, Molina, P.E., Gardner, J.G. (2016) Alcohol vapor inhalation as a model of alcohol-induced organ disease. *Alcoholism Clinical and Experimental Research* 40:1671-8.
 35. Itoga, C.A., Roltsch Hellard, E.A., Whitaker, A.M., Lu, Y.-L., Schreiber, A.L., Baynes, B.B., Baiamonte, B.A., Richardson, H.N., **Gilpin, N.W.** (2016) Traumatic Stress Promotes Hyperalgesia via Corticotropin-Releasing Factor-1 Receptor (CRFR1) Signaling in Central Amygdala. *Neuropsychopharmacology* 41:2463-72.
 36. McGinn, M.A., Paulsen, R.I., Itoga, C.A., Farooq, M.A., Reppel, J.E., Edwards, K.N., Whitaker, A.M., **Gilpin, N.W.**, Edwards, S. (2016) Withdrawal from chronic nicotine exposure produces region-specific tolerance to alcohol-stimulated GluA1 phosphorylation. *Alcoholism Clinical and Experimental Research* 40:2537-47.
 37. Schreiber, A.L., Lu, Y.-L., Baynes, B.B., Richardson, H. N., **Gilpin, N.W.** (2017) Corticotropin-releasing factor (CRF) in ventromedial prefrontal cortex mediates avoidance of a traumatic stress-paired context. *Neuropharmacology* 113:323-330.
 38. Roltsch Hellard, E.A., Impastato, R.I., **Gilpin, N.W.** (2017) Intra-cerebral and intra-nasal melanocortin-4 receptor antagonist blocks withdrawal hyperalgesia in alcohol-dependent rats. *Addiction Biology* 22:692-701.
 39. Avegno, E.M., Lobell, T.D., Itoga, C.A., Baynes, B.B., Whitaker, A.M., Weera, M.M., Edwards, S., Middleton, J.W., **Gilpin, N.W.** (2018) Central amygdala circuits mediate hyperalgesia in alcohol-dependent rats. *Journal of Neuroscience* 38:7761-73.
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 41. Schreiber, A.L., McGinn, M.A., Edwards, S., **Gilpin, N.W.** (2019) Predator Odor Stress Blunts Alcohol Conditioned Aversion. *Neuropharmacology* 144:82-90.
 42. Fucich, E.A., Mayeux, J.P., McGinn, M.A., **Gilpin, N.W.**, Edwards, S., Molina, P.E. (2019) A novel role for the endocannabinoid system in ameliorating motivation for alcohol drinking and negative behavioral affect after traumatic brain injury in rats. *Journal of Neurotrauma* 36:1847-55.
 43. Avegno, E.M., Middleton, J.W., **Gilpin, N.W.** (2019) Synaptic GABAergic transmission in the central amygdala (CeA) of rats depends on slice preparation and recording conditions. *Physiological Reports* 7:e14245.
 44. Fucich, E.A., Stielper, Z.F., Cancienne, H.L., Edwards, S., **Gilpin, N.W.**, Molina, P.E., Middleton, J.W. (2020) Endocannabinoid degradation inhibitors ameliorate neuronal and synaptic alterations following traumatic brain injury. *Journal of Neurophysiology* 123:707-17.
 45. Weera, M.M., Schreiber, A.L., Avegno, E.M., **Gilpin, N.W.** (2020) The Role of Central Amygdala Corticotropin-Releasing Factor on Predator Odor Stress-Induced Avoidance Behavior and Escalated Alcohol Drinking in Rats. *Neuropharmacology*: 107979.

46. Montanari, C., Kelley, L.K., Kerr, T.M., Cole, M., **Gilpin, N.W.** (in press) Nicotine e-cigarette vapor inhalation effects on nicotine & cotinine plasma levels and somatic withdrawal signs in adult male Wistar rats. *Psychopharmacology*.
47. Yue, X., Oakes, J., Xu, J., Morris, T., Fried, N., Pearson, C., Lobell, T., **Gilpin, N.W.**, Lazartigues, E., Gardner, J. (in press) Effects of Chronic Nicotine Inhalation on Systemic and Pulmonary Blood Pressure and Right Ventricular Remodeling in Mice. *Hypertension*.
48. Ferguson, T., Beauchamp, A., Rosen, E.M., Ray, A.N., Theall, K.P., **Gilpin, N.W.**, Molina, P.E., Edwards, S. (in press) Pilot Study of the Adaptation of an Alcohol, Tobacco, and Illicit Drug Use Intervention for Vulnerable Urban Young Adults. *Frontiers in Public Health*.
49. Stielper, Z.F., Fucich, E.A., Middleton, J., Hillard, C., Edwards, S., Molina, P., **Gilpin, N.W.** (in press) Traumatic brain injury (TBI) and alcohol drinking alter basolateral amygdala (BLA) endocannabinoids in female rats. *J Neurotrauma*.
50. Datta, U., Kelley, L.K., Middleton, J.W., **Gilpin, N.W.** (2020) Positive allosteric modulation of the cannabinoid type-1 receptor (CB1R) in periaqueductal gray (PAG) antagonizes anti-nociceptive and cellular effects of a mu-opioid receptor agonist in morphine-withdrawn rats. *Psychopharmacology* 237:3729-39.
51. Montanari, C., Secci, M., Driskell, A., McDonald, K.O., Schratz, C.L., **Gilpin, N.W.** (2020) Chronic nicotine increases alcohol self-administration in adult male Wistar rats. *Psychopharmacology*.

* indicates that both authors contributed equally to the manuscript

Review Articles:

1. Badia-Elder, N.E., **Gilpin, N.W.**, Stewart, R.B. (2007). Neuropeptide Y modulation of ethanol intake: effects of ethanol drinking history and genetic background. *Peptides* 28:339-44.
2. **Gilpin, N.W.**, Koob, G.F. (2008). Overview: neurobiology of alcohol dependence with a focus on motivational mechanisms. *Alcohol Research & Health*, 31:185-95.
3. **Gilpin, N.W.**, Richardson, H.N., Cole, M., Koob, G.F. (2008). Vapor inhalation of alcohol in rats. *Current Protocols in Neuroscience* 44, 9.29.1-9.29.19.
4. June, H.L., **Gilpin, N.W.** (2010) Operant self-administration models for testing the neuropharmacological basis of ethanol consumption in rats. *Current Protocols in Neuroscience* Supplement 51:9.12.1-9.12.25.
5. **Gilpin, N.W.**, Roberto, M. (2012) Neuropeptide Modulation of Central Amygdala Neuroplasticity is a Key Mediator of Alcohol Dependence. *Neuroscience and Biobehavioral Reviews* 36:873-88.
6. **Gilpin, N.W.** (2012) Corticotropin-releasing factor (CRF) and neuropeptide Y (NPY): Effects on inhibitory transmission in central amygdala, and anxiety- & alcohol-related behaviors. *Alcohol* 46:329-37.
7. **Gilpin, N.W.** (2012) Neuropeptide Y (NPY) in the extended amygdala is recruited during the transition to alcohol dependence. *Neuropeptides* 46:253-9.
8. Whitaker, A.W., **Gilpin, N.W.**, Edwards, S.E. (2014) Animal Models of Post-Traumatic Stress Disorder and Recent Neurobiological Insights. *Behavioural Pharmacology* 25:398-409.
9. **Gilpin, N.W.**, Herman, M.A., Roberto, M. (2015) The Central Amygdala as an Integrative Hub for Anxiety and Alcohol Use Disorders. *Biological Psychiatry* 77:859-69.
10. **Gilpin, N.W.**, Weiner, J.L. (2017) Neurobiology of comorbid post-traumatic stress disorder and alcohol-use disorder. *Genes Brain & Behavior* 16:15-43.
11. Schreiber A.L., **Gilpin, N.W.** (2018) Corticotropin-Releasing Factor (CRF)

Neurocircuitry and Neuropharmacology in Alcohol Drinking. *Handbook of Experimental Pharmacology*.

12. Albrechet-Souza, L., **Gilpin, N.W.** (2019) The predator odor avoidance model of post-traumatic stress disorder in rats. *Behavioural Pharmacology* 30(2,3-Special Issue):105-114.
13. Avegno, E.M., **Gilpin, N.W.** (2019) Inducing alcohol dependence in rats using chronic intermittent exposure to alcohol vapor. *Bio-protocol* 9(9): e3222. DOI: 10.21769/BioProtoc.3222.
14. Weera, M.M., **Gilpin, N.W.** (2019) Biobehavioral Interactions Between Stress and Alcohol. *Alcohol Res* 40:arcr.v40.1.04.
15. Witkiewitz, K., Wojnar, M., **Gilpin, N.W.**, Vendruscolo, L.F., Edwards, S. (in press) Alcohol and Pain: A Translational Review of Preclinical and Clinical Findings to Inform Future Treatment Strategies. *Alcoholism: Clinical and Experimental Research*.

Books:

1. **Gilpin, N.W.** (2009) *Alcohol abstinence in vulnerable subpopulations of drinkers: a role for neuropeptide Y*. Saarbrücken, Germany: VDM Verlag Dr. Müller.
2. **Gilpin, N.W.** (in preparation) *Neurocircuitry of Addiction*. Elsevier.

Book Chapters:

1. Roberto, M., **Gilpin, N.W.**, Siggins, G.R. (2012) The Central Amygdala and Alcohol: Role of GABA, Glutamate and Neuropeptides. *Cold Spring Harb Perspect Med (Addiction)*, eds. Paul Kenny & Christopher Pierce) doi: 10.1101/cshperspect.a012195.
2. Roberto, M., **Gilpin, N.W.** (2014) Central amygdala neuroplasticity in alcohol dependence. Elsevier (*Neurobiology of Alcohol Dependence*, eds. Antonio Noronha, Changhai Cui, Adron Harris & John Crabbe).

Videos, Electronic Media, and Multimedia:

1. **Gilpin, N.W.** in collaboration with Medical Directions, Inc., Rita Goldstein, Ph.D., and UCLA Laboratory of Neuroimaging (June 2010) Online Course titled *The Neurobiology of Addiction*. URL: <http://www.drugabuseresearchtraining.org>

Grant Review Committee:

NIAAA Study Section AA-4 Neuroscience Review Subcommittee; ad hoc 2012
NIAAA Study Section ZAA1 DD (04) Special Emphasis Panel; ad hoc 2012
NIAAA Study Section ZAA1 DD (04) Special Emphasis Panel; chair 2013
NIAAA Study Section AA-4 Neuroscience Review Subcommittee; ad hoc 2014
NIAAA Study Section ZAA1 DD (04) Special Emphasis Panel; ad hoc 2014
CSR Study Section; Neurotoxicology of Alcohol (NAL); ad hoc 2015
NIAAA Study Section ZAA1 CC (01); Consortium review; ad hoc 2015
NIAAA Study Section ZAA1 DD (05) Special Emphasis Panel; chair 2015 (June)
NIAAA Study Section ZAA1 DD (05) Special Emphasis Panel; ad hoc 2015 (Nov)
NIAAA Study Section ZAA1 JJ (08) Special Emphasis Panel; member 2016
CSR Study Section; Neurotoxicology of Alcohol (NAL); standing member 2016-2020
NIAAA Study Section ZAA1 CC (51); Center review; ad hoc 2018
NIAAA Study Section AA-4 Neuroscience Review Subcommittee; ad hoc 2018
NIAAA Study Section AA-4 Neuroscience Review Subcommittee; ad hoc 2019

Organized & Chaired Scientific Meetings:

National:

1. Nat'l. Hispanic Science Network (NHSN) Mtg.; Co-Chair 2012

2. D'Angelo Workshop on Mental Health; Founder & Organizer & Chair 2020
3. Gordon Research Conference (GRC) on Alcohol in CNS; Vice Chair 2020
4. Staying Connected Post-doc Virtual Seminar Series; Co-organizer 2020
5. Gordon Research Conference (GRC) on Alcohol in CNS; Chair 2022

International:

1. Intl. Drug Abuse Res. Soc. (IDARS) Mtg.; Morocco; Co-chair 2019

Organized & Chaired Symposia:

National:

1. *Neuropharmacology of excessive alcohol drinking in rodent models*. RSA meeting in San Diego, CA, 2009. Role: Organizer & Chair.
2. *Negative affective states and addiction*. NHSN meeting in Miami, FL, 2011. Role: Organizer & Chair.
3. *Vulnerability factors for excessive alcohol drinking and alcohol-related behavioral dysregulation*. RSA meeting in Atlanta, GA, 2011. Role: Organizer & Chair.
4. *The translational intersection of depression and addiction*. NHSN meeting in San Antonio, TX, 2015. Role: Co-organizer & Co-chair.
5. *Corticotropin releasing factor: Novel molecular, cellular and system roles*. SfN meeting in Chicago, IL, 2015. Role: Mini-symposium co-chair.
6. *Brain reward and brain stress system cross-talk in alcohol addiction*. Research Society on Alcoholism (RSA) meeting in San Diego, CA, 2018. Organizer & Chair.
7. *Ventral Tegmental Area (VTA) Cell Heterogeneity in Health & Disease*. Mini-symposium at Society for Neuroscience (SfN) meeting in Chicago, IL, 2019. Organizer & Chair.
8. *Intersectional Neurobiology of Pain, Addiction & Negative Affect*. Symposium at American College on Neuropsychopharmacology (ACNP) meeting in Orlando, FL, 2019. Organizer & Chair.

International:

1. *Post-traumatic stress disorder & alcohol dependence*. Alcoholism & Stress Meeting in Volterra, Italy, 2011. Role: Organizer & Chair.
2. *Alcohol-induced plasticity in brain NPY systems*. International NPY-PPY-PP Meeting, Montreal, Canada, 2012. Role: Organizer & Chair.
3. *Nicotine reinforcement & dependence: Neuroadaptations in "stop" & "go" signals*. IBNS meeting in Dublin, Ireland, 2013. Role: Organizer & Chair.
4. *Brain reward and stress systems in excessive alcohol drinking*. Alcoholism & Stress Meeting in Volterra, Italy, 2014. Role: Organizer & Chair.
5. *Chronic alcohol effects on brain reward, stress & cognition systems: Mouse to monkey to man*. ISBRA meeting in Berlin, Germany, 2016. Role: Organizer & Chair.
6. *Chronic alcohol induces plasticity in striatal and limbic circuits*. International Society on Biomedical Research on Alcohol (ISBRA), Kyoto, Japan, 2018. Organizer & Chair.

Scientific Presentations:

National:

1. *Neuropeptide Y reduces oral ethanol intake in alcohol-preferring (P) rats following a period of imposed ethanol abstinence*. Presented at RSA meeting in Fort Lauderdale, FL, 2003.
2. *The effects of neuropeptide Y (NPY) in the paraventricular nucleus of the hypothalamus (PVN) on ethanol drinking in high- (HAD1) and low-alcohol-drinking (LAD1) rats*. Presented at RSA meeting in Vancouver, Canada, 2004.

3. *Dose-dependent effects of neuropeptide Y (NPY) on ethanol intake in alcohol-preferring (P) rats following multiple periods of imposed ethanol abstinence.* Presented at RSA meeting in Vancouver, Canada, 2004.
4. *Suppression of ethanol intake by neuropeptide Y (NPY) in Wistar rats depends on intermittence of prior ethanol exposure.* Presented at RSA meeting in Baltimore, Maryland, 2006.
5. *Behavioral and pharmacological validation of two models of pathological alcohol drinking.* Presented at Winter Conference on Brain Research, Snowbird, Utah, 2008.
6. *Role of neuropeptide Y (NPY) in the transition to alcohol dependence.* Presented at RSA meeting in San Diego, CA, 2009.
7. *An animal model of post-traumatic stress disorder & alcohol-related behaviors.* Presented at NHSN meeting in Miami, FL, 2011.
8. *A new animal model of PTSD and alcohol drinking: Effects of predator stress and conditioned stimuli on operant alcohol self-administration.* Presented at RSA meeting in Atlanta, GA, 2011.
9. *Exposure to traumatic stress in rats differentially affects alcohol drinking and neuronal ERK phosphorylation.* Presented in nanosymposium at SfN meeting in New Orleans, LA, 2012.
10. *Nicotine-dependent rats exhibit increases in alcohol self-administration and altered sensitivity to varenicline.* Presented at CPDD meeting in Palm Springs, CA, 2012.
11. *Nicotine vapor inhalation escalates nicotine self-administration.* Presented in symposium at CPDD meeting in San Diego, CA, 2013.
12. *Traumatic brain injury increases alcohol drinking and promotes neuroinflammation in rats.* Presented at Society of Neuroimmune Pharmacology (SNIP) meeting in New Orleans, LA, 2014.
13. *High traumatic stress reactivity escalates alcohol drinking and recruits CRF in prefrontal-amygdala circuitry.* Presented at RSA meeting in Bellevue, WA, 2014.
14. *Amygdalar CRF mediates stress effects on nociception and alcohol drinking.* Presented in mini-symposium at SfN meeting in Chicago, IL, 2015.
15. *Central Amygdala Regulation of Alcohol Withdrawal Hyperalgesia.* Presented at Gordon Research Conference (GRC) on Amygdala in Easton, MA, 2017.
16. *Amygdala endocannabinoids in alcohol withdrawal and traumatic stress induced escalation of alcohol drinking.* Presented in the NIDA-NIAAA satellite symposium preceding the Society for Neuroscience meeting in Washington, D.C., 2017.
17. *Traumatic Stress Reactivity and Neural Mediators of Alcohol Drinking.* Presented at the Gordon Research Conference (GRC) on Alcohol & the Nervous System in Galveston, TX, 2018.
18. *Amygdala CRF Regulation of Traumatic Stress Effects on Behavior.* Presented at the National Hispanic Science Network (NHSN) meeting in New Orleans, LA, 2019.
19. *Neurobiological mediators of hyperalgesia after chronic alcohol & chronic morphine.* To be presented at the American College on Neuropsychopharmacology (ACNP) meeting in Orlando, FL, 2019.

International:

1. *A convergent pathway in the amygdala for brain stress peptides in alcohol dependence.* Presented at IDARS meeting in Seoul, South Korea, 2009.
2. *Extending the utility of alcohol vapor dependence procedures.* Presented at ISBRA meeting in Paris, France, 2010.
3. *Neuropeptide Y suppresses alcohol drinking by decreasing inhibitory neurotransmission in central amygdala.* Presented at IDARS meeting in Rio de Janeiro, Brazil, 2010.

4. *A new animal model of post-traumatic stress disorder & alcohol dependence.* Presented at Alcoholism & Stress Meeting in Volterra, Italy, 2011.
5. *Alcohol dependence recruits neuropeptide Y (NPY) systems in extended amygdala.* Presented at ISBRA meeting in Sapporo, Japan, 2012.
6. *Neuropeptide Y in the extended amygdala of alcohol-dependent rats.* Presented at the International NPY-PPY-PP Meeting, Montreal, Canada, 2012.
7. *Nicotine vapor escalates nicotine self-administration & alters nAChR profiles.* Presented at IBNS meeting in Dublin, Ireland, 2013.
8. *High traumatic stress reactivity promotes alcohol drinking and recruits cortico-amygdalar circuitry.* Presented at IDARS meeting in Mexico City, Mexico, 2013.
9. *Individual differences in stress-induced behavioral dysregulation mediated by corticotropin-releasing factor (CRF) in central amygdala (CeA).* Presented at Alcoholism & Stress Meeting in Volterra, Italy, 2014.
10. *Traumatic stress increases nociception & alcohol drinking: A role for corticotropin-releasing factor (CRF) signaling in the central amygdala (CeA).* Presented at IDARS meeting in Sydney, Australia, 2015.
11. *Central amygdala mediates hyperalgesia associated with traumatic stress & alcohol dependence.* Presented at ISBRA meeting in Berlin, Germany, 2016.
12. *Traumatic stress effects on brain CRFR1 signaling, nociception & alcohol drinking.* Presented at Stress & Alcoholism meeting in Volterra, Italy, 2017.
13. *The central amygdala is a hub for alcohol dependence, stress reactivity & pain.* Presented at the Zardi-Gori scientific meeting titled "Alcohol Use Disorder: from Bench to Bedside" in Milan, Italy, 2017.
14. *The role of brain CRF-CRFR1 signaling in stress-alcohol interactions.* Presented at the Winter Conference on Brain Research in Whistler, Canada, 2018.
15. *Stress alters amygdala signaling & alcohol drinking.* Presented at the Neurobiology of Stress Meeting in Banff, Canada, 2018.
16. *Central amygdala circuits mediate hyperalgesia in alcohol-dependent rats.* Presented at ISBRA meeting in Kyoto, Japan, 2018.
17. *Traumatic stress effects on brain & behavior.* Presented at PUCRS event on Early Life Stress & Addiction, Porto Alegre, Brazil, September 2019.

Invited Presentations and Seminars:

Local (not including talks on the LSUHSC campus):

1. *At the intersection of stress & alcohol use disorders.* Invited talk at Tulane University, Neuroscience Department, New Orleans, LA, November 2011.
2. *Stress & stress response affects alcohol-related behavior.* Invited talk at Tulane University, Physiology Department, New Orleans, LA, April 2012.
3. *Traumatic stress reactivity facilitates excessive alcohol drinking and prefrontal cortex-amygdala synchronicity.* Invited talk at Southeastern Louisiana University, Biology Department, Hammond, LA, November 2012.

National:

1. *Neuropeptide Y: The light side of the dark side of alcoholism.* Invited talk at Indiana University-Purdue University at Indianapolis, Psychology Department, Indianapolis, IN, November 2010.
2. *At the intersection of stress & alcohol use disorders.* Invited talk at National Institute of Alcoholism & Alcohol Abuse, Bethesda, MD, February 2012.
3. *Amygdalar CRF in stress-induced escalation of alcohol drinking & hyperalgesia.* Invited talk in NIAAA-sponsored satellite symposium at Society for Neuroscience 2014 meeting in Washington, D.C., November 2014.

4. *Amygdalar CRF mediates individual differences in stress-induced avoidance and hyperalgesia.* Invited talk at University of North Carolina, Psychology Department, Chapel Hill, NC, November 2015.
5. *Amygdalar CRF mediates individual differences in stress-induced avoidance and hyperalgesia.* Invited talk at University of Texas Medical School, Institute of Molecular Medicine, Houston, TX, May 2016.
6. *Amygdala mediates hyperalgesia associated with stress and alcohol dependence.* Invited talk in 5th Purdue Symposium on Psychological Sciences titled "Emotion Dysregulation: Consequences and Mechanisms," Purdue University, West Lafayette, IN, May 2016.
7. *Amygdalar CRF signaling mediates stress-induced hyperalgesia.* Invited talk at Washington State University, Alcohol and Drug Abuse Research Program, Pullman, WA, September 2016.
8. *CRF signaling mediates stress-induced behavioral dysregulation.* Invited talk at Medical University of South Carolina, Alcohol Research Center, Charleston, SC, October 2016.
9. *Central amygdala mediates alcohol dependence-induced hyperalgesia.* Invited talk at Vanderbilt University, Alcohol Research Center, Nashville, TN, October 2017.
10. *Traumatic stress alters brain CRF signaling & alcohol drinking.* Invited talk at Marquette University, Milwaukee, WI, October 2018.
11. *Central amygdala mediates alcohol dependence-induced hyperalgesia.* Invited talk at Texas A&M University, College Station, TX, October 2018.
12. *Central amygdala is a hub for alcohol dependence.* Invited talk at University of Maryland, Baltimore, MD, March 2019.
13. *Amygdala CRF regulation of traumatic stress effects on behavior.* Invited talk at University of Tennessee, Memphis, TN, October 2019.
14. *Central amygdala is a hub for alcohol dependence.* Invited talk at Indiana University, Indianapolis, IN, January 2020.
15. *Central amygdala is a hub for alcohol dependence.* Invited talk at University of Louisville, Louisville, KY, January 2020.
16. *Central amygdala is a hub for alcohol dependence.* Invited talk at Rutgers University, New Brunswick, NJ, February 2020.
17. *Racial inequities in federal funding for biomedical research.* Invited talk at University of North Texas (virtual), November 2020.
18. *Racial inequities in federal funding for biomedical research.* Invited talk at Washington University (virtual), December 2020.

International:

1. *Amygdalar CRF mediates individual differences in stress-induced avoidance and hyperalgesia.* Invited talk at University of Calgary, Calgary, Alberta, Canada, June 2016.
2. *Traumatic stress effects on brain & behavior.* Invited talk at Universidade do Sao Paulo, Sao Paulo, Brazil, September 2019.
3. *Traumatic stress effects on brain & behavior.* Invited talk at Pontificia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil, October 2019.
4. *Central amygdala is a hub for alcohol dependence.* Invited talk at Pontificia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil, October 2019.

Invited Keynote Talks:

1. *Central amygdala is a hub for alcohol dependence.* Keynote talk for the 2020 Latin American Society for Biomedical Research on Alcoholism (LASBRA) meeting in Sao

Paulo, Brazil, December 2020 (talk delivered via Zoom).

Editorial Posts and Activities:

Journal Editorial Appointments:

Neuropharmacology (Editorial Board member)	2016-
F1000 Faculty (member; Neuropharm. & Psychopharm. Section)	2018-
Alcohol (Editorial Board member)	2020-

Special Issues Journal Editor:

Editor of special issue for <i>Frontiers in Addictive Disorders</i> Title: Brain Reward and Stress Systems in Addiction Issue can be accessed at: http://journal.frontiersin.org/ResearchTopic/1039	2013
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Co-editor of special issue for <i>Neuropharmacology</i> Title: Neuropeptides	2020
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Co-editor of special issue for <i>Int'l. Review of Neurobiology</i> Title: Neurobiology of Addiction and Co-Morbid Disorders	2020
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Reviewer Status (alphabetical):

Addiction Biology, Alcohol, Alcoholism: Clinical & Experimental Research, Behavioural Brain Research, Behavioural Pharmacology, Biological Psychiatry, BMC Neuroscience, Brain Research, British Journal of Pharmacology, Cellular & Molecular Neurobiology, Drug & Alcohol Dependence, eLife, eNeuro, European Journal of Neuroscience, European Neuropsychopharmacology, Frontiers Journals (various), Genes Brain & Behavior, International Journal of Developmental Neuroscience, International Journal of Neuropsychopharmacology, Journal of Addiction Medicine, Journal of Drug & Alcohol Research, Journal of Neuroendocrinology, Journal of Neuroscience, Molecular Neurobiology, Molecular Psychiatry, Neurobiology of Stress, Neuropeptides, Neuropharmacology, Neuropsychopharmacology, Neuroscience Letters, Nicotine & Tobacco Research, Pain, Peptides, Pharmacology Biochemistry & Behavior, Physiology & Behavior, Progress in Neuropsychopharmacology & Biological Psychiatry, Psychoneuroendocrinology, Psychopharmacology, Regulatory Peptides, Toxicology & Applied Pharmacology

SERVICE ACTIVITIES

University/Institutional Service:

Departmental committees

Faculty Search Committee, Physiology, Member	2011-13, 2016-
Research Development Work-In-Progress, Physiology, Co-Chair	2012-2013
Post-Doctoral Development Committee, Physiology, Chair	2012-present
Faculty Research Development Program, Physiology, Director	2016-present

LSU School of Medicine (SOM) committees

Judge for Graduate Student Research Day	2011, 2014
Alcohol & Drug Abuse Center of Excellence, steering member	2012-present
Judge for Medical Student Research Day	2014
Alcohol & Drug Abuse Center of Excellence, Associate Director	2015-present
Research Enhancement Fund Grant Review Committee, member	2015-present

Faculty Guidance and Mentoring Committee, member	2015-present
Extramural Grant Proposal Review Committee, member	2019-present
M.D./Ph.D. student interview committee, member	2019-present

LSU School of Dentistry (SOD) committees

Academic Performance Advancement Committee, member	2020-present
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LSUHSC committees

LSU Strategic Plan, Research & Core Facilities Group, member	2013
LSUHSC-NO Information Technology (IT) Committee, member	2017-present

V.A. Service:

SLVHCS committees

Research & Development Committee (RDC), Member	2018-present
<i>Ad Hoc</i> Research VA Proposal Development Committee, Member	2018-present
SLVHCS Research Equipment Committee, Member	2018-present
SLVHCS Research Facility Activation Committee, Member	2018-present

Professional society committees

Research Society on Alcoholism (RSA)	
Program Committee for RSA Meeting, member	2013
Education Committee, member	2017-2020
Board of Directors, member	2017-present
National Hispanic Science Network (NHSN)	
Planning Committee for NHSN Meeting, member	2013, 2015
Planning Committee for NHSN Meeting, co-chair	2012
Early Career Leadership Committee Core Group, member	2012-2014
American College of Neuropsychopharmacology (ACNP)	
Education & Training Committee, ad hoc member	2014
Education & Training Committee, standing member	2015-2017
Publications Committee, standing member	2018-
International Drug Abuse Research Society (IDARS)	
Organizing Committee for IDARS meeting, member	2017

Community Service Activities:

LSUHSC Comprehensive Alcohol Research Center (CARC)	2014-2016
Information Dissemination Core; Role: Director (PI)	
Founder & Administrator of <i>Racial Equity in Science</i> Slack Forum	2020-