

CURRICULUM VITAE

Nicholas W. Gilpin

Current Title: Professor
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Citizenship: U.S.A.
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-

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-
The College on Problems of Drug Dependence (CPDD); member	2013-
International Drug Abuse Research Society (IDARS); member	2013-
American Coll. of Neuropsychopharmacology (ACNP), Assoc. member	2014-
American Coll. of Neuropsychopharmacology (ACNP), Member	2019-

Membership in ACNP is competitive and considered prestigious in the fields of neuroscience, pharmacology, and psychobiology.

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
Awarded to 4 young alcohol researchers each 3 years for research excellence

NHSN National Award of Excellence in Research by a New Investigator 2011
Awarded to 1 young investigator each year for research excellence

ACNP Travel Award 2012

Honorable Mention for Ziskind-Somerfeld Award, Soc. of Biol. Psychiatry 2012
Annual award for most outstanding research investigation in biological psychiatry

IDARS Young Investigator Award 2013
Awarded to 1 young investigator each 2 years for research excellence

Presidential Early Career Award for Scientists & Engineers (PECASE) 2017
Awarded by the White House Office of Science & Technology to 102 scientists and engineers in the early stages of their independent research careers

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." *This course includes lectures, discussions, and work with datasets. Covered topics include bio-statistical concepts, statistical theory and foundations in probability, how to design experiments, design & statistical considerations related to using vertebrate animals in research, analysis of sex differences, decision-making in statistical tests, power analyses, data transformation, outlier tests, post-hoc tests, data interpretation, data ethics, data replication, and how to assess statistics in review of manuscripts and grants. I am the creator of content for this course, an activity that consumed many hours before this class was offered the first time in Summer 2013.*

Creation of Enduring Teaching Materials

None

Formal Course Responsibilities

Graduate Teaching

Course Director:

LSU Health Sciences Center

Human Physiology for dental students (DENT 1115) 2016-present

70 clock hours per year, D.D.S. students

This course covers whole-organism physiology for Dental students. My role as Director is to coordinate and oversee lectures, create and proctor exams, manage grades, and meet with students during office hours.

Biostatistics for graduate students (PHYSIO 289) 2013 & 2015

15 lecture hours, Ph.D students & post-doc fellows

This course covers bio-statistical concepts for Ph.D. students and post-doctoral fellows training for research careers. My role as Director is to create course content, schedule all aspects of the course, and to deliver all material or recruit faculty to cover specialized topics.

Course Co-Director:

LSU Health Sciences Center

Human Physiology for dental students (DENT 1115) 2013-2016
88 clock hours per year, D.D.S. students
This course covers whole-organism physiology for Dental students. My role as co-director is to, along with the course director, coordinate and oversee lectures, create and proctor exams, to manage grades, and meet with students during office hours.

Co-Instructor/Lecturer:

LSU Health Sciences Center
Human Physiology (DENT 1115) 2011-present
2-10 lecture hours per year x 7 years
This course covers whole-organism physiology for Dental students. My lectures cover electrical properties of membranes, electrical and chemical aspects of synaptic transmission, sensory systems from receptors to brain, motor systems from brain to muscle, learning & memory, and sleep & behavior.

Modern Breakthroughs in Biomedical Sciences: 2014
A Focus on New Techniques and Technologies (PHYSIO 289)
2 lecture hours to Ph.D. students
This course introduces graduate students to cutting-edge basic science techniques. My lectures cover optogenetics and chemogenetics.

Synaptic Organization of Behavior (ANAT 264) 2014
4 lecture hours to Ph.D. students
This course relates synaptic transmission to behavior across organisms. My lectures cover the limbic system.

Molecular Neurobiology (NEURO 250) 2014
4 lecture hours to Ph.D. students
This course emphasizes problem solving and experimental design as they relate to hypothesis-driven research. My lectures cover neural control of behavior.

Dental Grand Rounds (DENT 4112) 2016-present
10 contact hours per year
In this course, D.D.S. students (D1-D4) analyze a clinical case study and prepare a presentation, under the guidance of mentors, that describes the clinical problem, solution, and outcome. My role is basic science mentor.

Undergraduate Teaching

Course Director:

San Diego State University
Statistical Methods in Psychology (PSY 270) 2008
30 lecture hours per semester x 1 semesters
This course covered bio-statistical concepts for undergraduates. I was the course director and lecturer for all course material.

Univ. of California-San Diego
Introduction to Statistics (PSYC 60) 2009-2011
30 lecture hours per semester x 2-3 semesters/year

This course covered bio-statistical concepts for undergraduates. I was the course director and lecturer for all course material.

Physiological Psychology (PSYC 106) 2010

30 lecture hours per semester x 2 semesters

This course covered behavioral neuroscience for undergraduates. I was the course director and lecturer for most course material.

Co-Instructor:

LSU Health Sciences Center

Human Physiology for nursing students (HS 2410) 2011-2016

2-4 lecture hours per semester x 8 semesters

This course covers whole-organism physiology for nursing students. My lectures cover motor systems from brain to muscle, learning & memory, and sleep & behavior.

Human Pathophysiology for nursing students (HS 3410) 2012-2016

2 lecture hours per semester x 6 semesters

This course covers whole-organism pathophysiology for nursing students. My lectures cover disorders of brain function and disorders of neuromuscular function.

General & Oral Physiology for dental hygiene (DHY 3202) 2012

2 lecture hours

Course covers whole-organism physiology for dental hygiene students. My lectures covered nerve excitation and sensory physiology.

Departmental/Interdisciplinary Teaching Conferences

None

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. Brittini 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
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-

Other universities

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

Medical Students

Summer Research Rotations

1. Madelyn Weil 2012

2. Abdelrahim Abdel 2012

Foreign Research Interns

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

Undergraduate Student Researchers

LSU Health Sciences Center

Abigail Olinde, Andrew Schroth, Alissa Ice, Margaret Hazelton, Ryan Jones, Carrie Lloyd, many others

University of California-San Diego

Ben Isakson, Lisa Zazworsky, Hillary Cormier, Lindsey Ong, Darshan Patel, Shin Trieu, Alfonzo Luna, Casey Carmichael, Michael Barrus, Brent Costa, Tyler Sprague, Neha Jaiswal, Daniel Ramirez, Brittni Baynes, Eva Martinez

San Diego State University

Juliana Todesco

Undergraduate Student Teachers-in-Training

University of California-San Diego

Joanna Ho (PSYC 60) 2009

High School Student Researchers

LSU Health Sciences Center

Reuben Hogan (1st Place; LSUHSC Summer Research Poster Session), many others

Grade School Teacher Researchers

LSU Health Sciences Center

Melissa Faucheux, Kathleen Stewart

Funding for Mentees

LSU Health Sciences Center

Melissa Faucheux (New Orleans area science teacher) 2012
APS "Frontiers in Physiology" Award

Melissa Faucheux (New Orleans area science teacher) 2013
APS "Frontiers in Physiology" Award

Annie Whitaker (post-doctoral fellow) 2013
LSUHSC ADACE Pilot \$10,000

Glucocorticoid co-chaperone, FKBP5, as a target for stress-induced escalation of alcohol intake

Brittni Baynes (graduate student) 2013
SPINES month-long Research Program in Woods Hole (all expenses paid)

Kathleen Stewart (Atlanta area science teacher) 2014
APS "Frontiers in Physiology" Award

Allyson Schreiber (graduate student) 2015
NIH/NIAAA NRSA F30 fellowship

Elizabeth Avegno (post-doctoral fellow) 2017
NIH/NIAAA NRSA F32 fellowship

Adrienne McGinn (graduate student in Edwards lab) 2017
NIH/NIAAA NRSA F31 fellowship

Zachary Stielper (graduate student) 2018
NIH/NIAAA NRSA F30 fellowship

Elizabeth Fucich (post-doctoral fellow in Molina lab) 2018
NIH/NIAAA NRSA F32 fellowship

Marcus Weera (post-doctoral fellow) 2019
NIH/NIAAA NRSA F32 fellowship

University of California-San Diego

Casey Carmichael (undergraduate research assistant) 2010
UCSD Warren College Undergraduate Research Award

Awards for Mentees

LSU Health Sciences Center

Annie Whitaker (post-doctoral fellow) 2015
American Physiological Society CNS Section Excellence in Research Award
Awarded to 1-2 young investigators per year for meritorious research at EB.

Annie Whitaker (post-doctoral fellow) 2015
American College of Neuropsychopharmacology Travel Award
This prestigious award funds travel to the 2015 ACNP meeting.

Elizabeth Avegno (post-doctoral fellow) 2017
Volterra Stress & Alcohol Meeting Travel Award
This award funds travel to the 2017 Stress & Alcohol meeting in Volterra, Italy.

Elizabeth Avegno (post-doctoral fellow) 2018
Elected chair of the 2020 Gordon Research Seminar (GRS) on Alcohol & CNS

Allyson Schreiber (graduate student) 2018
LSUHSC Chancellor's Award for Most Outstanding Student
This award is given to one Ph.D. graduate at LSUHSC each year.

Elizabeth Avegno (post-doctoral fellow) 2018
Winner of RSA Enoch Gordis Research Recognition Award
This award is given to one biomedical post-doctoral fellow at each year's meeting.

RESEARCH AND SCHOLARSHIP

Grants and Contracts:**Currently Funded**

1R01AA023305-01 2014-2020

National Institutes of Alcoholism and Alcohol Abuse & General Medical Sciences

Role of Neuropeptides in Stress-Induced Escalation of Alcohol Drinking

Role: PI

\$1,139,537 direct costs

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

Role: Mentor

\$211,908 direct costs

1I01BX003451-01A1 2017-2021

Department of Veteran Affairs

Targeting Melanocortin-4 Receptors to Reduce Pain in U.S. Veterans

Role: PI

\$937,823 direct costs

1R01AA026531-01 2017-2022

NIH/NIAAA

Traumatic stress increases alcohol drinking via endocannabinoid disinhibition of basolateral amygdala

Role: MPI (with Jeffrey Tasker)

\$1,492,894 direct costs

1R01AA026531 Supplement 2018-2020

Cohen Veterans Biosciences (CVB)

Traumatic stress increases alcohol drinking via endocannabinoid disinhibition of basolateral amygdala

Role: PI

\$251,767 direct costs

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

NIH/NIAAA

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

Role: Co-I

\$275,000 direct costs

1R01HL135635-01 (PI: Jason Gardner) 2017-2021

NIH/NHLBI

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

Role: Co-I

\$1,470,000 direct costs

1F32AA025831-01 (PI: Elizabeth Avgeno) 2017-2020

NIH/NIAAA

Brain Reward and Stress System Interactions in Alcohol Dependence

This study examines the interaction of brain stress and reward systems in alcohol dependence.

Role: Mentor

\$170,094 direct costs

1R44DA046300-01 (PI: Maury Cole)

2018-2020

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

\$114,001 direct costs in Phase 1

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)

\$1,125,000 direct costs

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

\$217,612 direct costs

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

\$101,296 direct costs

1R21AA026022-01A1

2018-2020

NIH/NIAAA

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

Role: PI

\$258,388 direct costs

N/A

2019

Department of Veteran Affairs

Field based meeting titled "Pain and Opiate Addiction in U.S. Veterans"

Role: PI

\$50,000 direct costs

1F32AA027145-01A1 (PI: Marcus Weera)

2019-2020

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

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

Pending
None.

Completed
Underrepresented minority supplement to R01AA12857 2002-2005
NIH/NIAAA
Neuropeptide Y and Alcohol Related Behaviors
Role: Student (PI: Badia-Elder); 100% effort
\$45,487 direct costs

1F32 AA016436-01A1 2007-2009
Ruth L. Kirschstein NRSA Postdoctoral Fellowship
NIH/NIAAA
Neuropeptide Y and Ethanol Abstinence
Role: PI; 100% effort
\$118,672 direct costs

5R00 AA018400-05 2010-2015
K99/R00 Pathway to Independence (PI) Award
NIH/NIAAA
Post-traumatic Stress Disorder and Alcohol Dependence
Role: PI; 100% effort during K99 phase; 50% effort during R00 phase
\$662,920 direct costs

ABMRF 2013-2015
ABMRF Foundation for Alcohol Research Role of Melanocortin-4 Receptors (MC4Rs) in
Chronic Alcohol-Induced Changes in Thermal Sensitivity
Role: PI; 10% effort
\$90,910 direct costs

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; 0% effort
\$10,000 direct costs

1R21 AA022690-01A1 2014-2016
NIH/NIAAA

Ethanol-Induced Cardiac Fibrosis and Dysfunction are Mediated by NADPH Oxidases
Role: Co-I (PI: Jason Gardner); 10% effort
\$268,750 direct costs

2P60 AA009803-22 2014-2016
NIH/NIAAA
LSUHSC-NO Comprehensive Alcohol-HIV/AIDS Research Center
Role: PI of Information Dissemination Core
\$50,775 direct costs

P30 GM103340 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.)
\$50,000 direct costs

3R01 AA023305-02S1 2015-2016
NIH Office of Research on Women's Health & NIAAA
Role of Neuropeptides in Stress-Induced Escalation of Alcohol Drinking
Role: PI
\$68,493 direct costs

1F31AA025812-01A1 (PI: Adrienne McGinn) 2017-2019
NIH/NIAAA
Alcohol Dependence and Pain: Role of Cingulate Cortex Glucocorticoid Receptors
This study examines the neurobiological intersection of pain and alcohol dependence.
Role: Co-mentor
\$71,754 direct costs

Non-funded applications

1F32 AA022271-01 2012
NIH/NIAAA
HPA Axis Dysfunction in Traumatic Stress-Induced Excessive Alcohol Drinking
Role: Mentor (PI: Annie Whitaker); 0% effort
Result: Not discussed

1R01 AA022395-01 2012
NIH/NIAAA
Brain Stress Systems in Alcohol Reinforcement in Nicotine-Dependent Rats
Role: PI
Result: Not discussed

033A-13 2012
Louisiana Board of Regents Research Competitiveness Subprogram (RCS)
Characterization of Central Amygdala Projection Neurons Activated by Stress & Alcohol
Role: PI
Result: Ranked priority two by subject-area panels and considered for funding by final panel but not recommended for funding

1R01 DA036620-01 2013
NIH/NIDA

Dual Dysregulation of Nicotinic Receptors and CRF Systems in Nicotine Dependence
Role: PI
Result: Not discussed

McManus Trust 2013
Neural Mechanisms of Alcohol Abuse Driven by Nicotine Dependence
Role: PI
Result: Not funded

Integrative Neuroscience Initiative on Alcoholism Pilot Grant Program 2013
Traumatic Stress-Induced Escalation of Alcohol Drinking
Role: PI
Result: Not funded

033A-14 2013
Louisiana Board of Regents Research Competitiveness Subprogram (RCS)
Role of Central Amygdala Projections in Stress-Induced Alcohol Drinking
Role: PI
Result: Ranked priority one by subject-area panels and considered for funding by final panel but not recommended for funding

Louisiana Clinical & Translational Science Center 2014
Translational Analysis of Alcohol Impact on Traumatic Brain Injury Pathology
Role: PI
Result: Not funded

2014-08-76 2014
Whitehall Foundation
Central Amygdala Outputs in Anxiety & Pain in Alcohol-Dependent Rats
Role: PI
Result: Not funded

1 R01 DA039537-01 2014
NIH/NIDA
Evaluation of Varenicline for Treatment of Co-morbid Nicotine and Alcohol Use Disorders in Humans and Rats
Role: PI
Result: Not discussed

1 R21 AA024936-01 2015
NIH/NIAAA
Neural Correlates of Stress in Adults with HIV/AIDS and Alcohol Use Disorder
Role: PI
Result: Not discussed

1 R01 DE026009-01 2015
NIH/NIDCR
The effect of electronic cigarette vapor on oral cellular and immune homeostasis using a novel chronic intermittent rodent exposure model
Role: PI
Result: Not discussed

1 R01 AA024478-01A1 NIH/NIAAA Nicotine Neuronal Ensembles in Control of Alcohol Drinking Role: PI Result: Impact score = 56 (percentile = 43%)	2015
LBCRP Program LA BoR Translational Studies on Stress Neurocircuitry in Co-Morbid HIV/AIDS and Alcohol Use Disorder Role: PI Result: Not funded	2016
1 R01 AA026443-01 NIH/NIAAA Nicotine Neuronal Ensembles in Control of Alcohol Drinking Role: PI Result: Not discussed	2017

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.
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53. Mouton, A.J., Ninh, V.K., Hajj, E.E., Hajj, M.E., **Gilpin, N.W.**, Gardner, J.D. (2016) Alcohol blocks compensatory cardiac collagen remodeling during both acute and chronic volume overload. *Alcohol Clin Exp Res* 40(s1).
54. McGinn, M.A., Whitaker, A.M., Itoga, C.A., Farooq, M.A., Paulsen, R.I., Reppel, J.E., **Gilpin, N.W.**, Edwards, S. (2016) Region-specific tolerance to alcohol-stimulated glutamate receptor phosphorylation in the context of nicotine dependence. *Alcohol Clin Exp Res* 40(s1).
55. Whitaker, A.M., **Gilpin, N.W.** (2016) ERK phosphorylation in the central amygdala mediates avoidance of a context paired with traumatic stress. *Alcohol Clin Exp Res* 40(s1).
56. Mayeux, J., **Gilpin, N.W.**, Edwards, S., Molina, P. (2016) Mild traumatic brain injury increases alcohol drinking: a potential mechanistic role for brain stress systems. *Alcohol Clin Exp Res* 40(s1).
57. Schreiber, A.L., **Gilpin, N.W.** (2016) Role for corticotropin-releasing factor in central amygdala in alcohol drinking after traumatic stress. *Alcohol Clin Exp Res* 40(s1).
58. Avegno, E.M., Whitaker, A.M., Lobell, T., Schreiber, A.L., **Gilpin, N.W.** (2017) Establishing a role for VTA-CeA projections in escalated alcohol drinking in alcohol-dependent rats. *Alcohol Clin Exp Res* 41(s1).
59. Francis, M., Sayde, P., Blackwelder, C., Stielper, Z.F., Mayeux, J.P., **Gilpin, N.W.**, Edwards, S., Molina, P.E. (2017) Post-TBI alcohol consumption reduces memory-related hippocampal transcription factor expression. *Alcohol Clin Exp Res* 41(s1).
60. Yue X., Basting T.M., Flanagan T.W., Xu J., Lobell T.D., **Gilpin N.W.**, Gardner J.D., Lazartigues E. (2018) Nicotine downregulates the compensatory angiotensin-converting enzyme 2/angiotensin type 2 receptor of the renin-angiotensin system. *Ann Am Thorac Soc* 15(s2):S126-S127.
61. Fucich, E.A., Stielper, Z.F., Stoulig, P.J., Edwards, S., Middleton, J.W., **Gilpin, N.W.**, Molina, P.E. (2018) Neurobiological underpinnings of escalated alcohol drinking after traumatic brain injury. *Alcohol Clin Exp Res* 42(s1).
62. Avegno, E.A., Kelley, L.K., Lobell, T.D., Middleton, J.W., **Gilpin, N.W.** (2018) Alcohol dependence impacts midbrain projections to central amygdala. *Alcohol Clin Exp Res* 42(s1).

63. Stielper, Z.F., Fucich, E.A., Stoulig, P., Edwards, S., Molina, P.E., **Gilpin, N.W.** (2018) Mild traumatic brain injury (TBI) alters brain endocannabinoid proteins in alcohol drinking rats. *Alcohol Clin Exp Res* 42(s1).
64. Weera, M.M., Pahng, A.R., Whiatker, A.M., **Gilpin, N.W.** (2018) Stress-induced brain activation in Avoider rats. *Alcohol Clin Exp Res* 42(s1).

Research 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-present
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. 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.

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.

Editorial Posts and Activities:

Journal Editorial Appointments:

Frontiers in Addictive Disorders and Behavioral Dyscontrol	2012-
Frontiers in Neuropharmacology	2016-
Neuropharmacology (Editorial Board member)	2016-
F1000 Faculty (member; Neuropharm. & Psychopharm. Section)	2018-

Special Issues Journal Editor:

Editor of special issue for *Frontiers in Addictive Disorders* 2013
Title: Brain Reward and Stress Systems in Addiction

Issue can be accessed at: <http://journal.frontiersin.org/ResearchTopic/1039>

Co-editor of special issue for *Neuropharmacology* 2020
Title: Neuropeptides

Co-editor of special issue for *Int'l. Review of Neurobiology* 2020
Title: Neurobiology of Addiction and Co-Morbid Disorders

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

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-present
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-

Administrative Responsibilities:

None

Community Service Activities:

LSUHSC Comprehensive Alcohol Research Center (CARC) 2014-2016

Information Dissemination Core; Role: Director (PI)

The goal of this Core is 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. These activities include community outreach and education initiatives. My role as Director was to seek out opportunities and coordinate these activities on campus and in the community.

Research Interest Narrative

I am a behavioral neuroscientist, and my research career has focused on examining the neurobiology of addiction, traumatic stress disorders, and pain in animal models, with the ultimate goal of contributing to our understanding of the neurobiology of addiction, as well as potential prevention and treatment strategies for these disorders.

My major research contribution to this point has been to the understanding of the neural changes that mediate the transition from alcohol use to alcohol dependence. In particular, pro-anxiety and anti-anxiety neuropeptide systems in the extended amygdala are recruited during the transition to alcohol dependence, and these systems become critical for mediating alcohol consumption and other alcohol-related outcomes in the alcohol-dependent organism. I have authored many empirical articles and several review articles that collectively seek to improve our understanding of the neuroadaptations that underlie the behavioral pathologies that define the diagnostic criteria for Alcohol Use Disorder (AUD).

My current research program continues to focus on understanding the neurobiology of addictive disorders. I am currently funded by NIAAA and the V.A. The current focus of my lab is to examine neurobiological mechanisms underlying the high rate of co-morbidity of addiction with traumatic stress disorders (e.g., PTSD) and pain. The goal of this work is to identify the neural interface for addiction with traumatic stress disorders and pathological pain, which are frequently co-morbid in civilian and military populations. The potential impact of this work on human health is to identify promising targets and strategies for treating human addicts with co-morbid stress and pain disorders.

I foresee three important areas of expansion for our research program in the future. First, we are incorporating circuit-based approaches into our pre-clinical models with the goal of defining the neurochemistry and neurocircuitry underlying alcohol abuse and pain in individuals living with addiction and traumatic stress disorders. Second, we are expanding our research program to include other drugs of abuse (i.e., nicotine and morphine). Third, we are looking for opportunities to translate our pre-clinical findings into clinical studies.