

CURRICULUM VITAE
Nicholas W. Gilpin

Current Title: Associate 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, Physiology Department, LSUHSC	2016-
Associate Professor, Neuroscience Ctr. of Excellence, LSUHSC	2016-
Associate Professor, Alcohol & Drug Abuse Ctr. of Excellence, LSUHSC	2016-

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-

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 Student Merit Award	2003-2005
RSA Junior Investigator Award	2006-2010
RSA Memorial Award, San Diego, CA	2009
NIAAA Travel Award to attend ISBRA meeting in Paris, France	2010
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
Awarded by the White House Office of Science & Technology to 102 scientists and engineers in the early stages of their independent research careers

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

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

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

Post-doctoral fellows, Graduate Students, and Medical Students Trained:

Post-Doctoral Fellows:

LSU Health Sciences Center

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|-----------------------------|-----------|
| 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- |
| 6. Marcus Weera, Ph.D. | 2017- |
| 7. Udit Datta, Ph.D. | 2017- |

Graduate Students

LSU Health Sciences Center

Major Professor

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|---|-----------|
| 1. Brittini Baynes; Physiology; chair M.S. committee | 2013-2014 |
| 2. Allyson Schreiber; Physiology; chair Ph.D. committee | 2014- |
| 3. Alicia Ray-Botello; Physiology; chair M.S. committee | 2015-2017 |
| 4. Zachary Stielper; Physiology; chair Ph.D. committee | 2017- |

Dissertation Committee (member)

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|---|-----------|
| 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 |
| 5. Alan Mouton; Ph.D., LSUHSC Physiology | 2014-2017 |
| 6. Adrienne McGinn, Ph.D., LSUHSC Physiology | 2015- |
| 7. Xin Fu, Ph.D., Tulane Neuroscience | 2016- |

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 |
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RESEARCH AND SCHOLARSHIP

Grants and Contracts:

Active

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	

The overall goal of this project is to test the role of amygdala neuropeptides in co-morbid high stress reactivity and alcohol abuse.

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

The overall goal of this project is to train a graduate student in neuroscience research aimed at understanding the neurobiological basis of stress-induced escalation of alcohol drinking.

1I01BX003451-01A1 2017-2021

Department of Veteran Affairs

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

Role: PI

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.

1R01AA026531-01 2017-2022

NIH/NIAAA

Traumatic stress increases alcohol drinking via endocannabinoid disinhibition of basolateral amygdala

Role: PI

This study examines the role of brain endocannabinoid signaling in post-stress escalation of alcohol drinking.

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

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

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

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

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

NIH/NIAAA

Brain Reward and Stress System Interactions in Alcohol Dependence

Role: Mentor

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

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

Completed

Underrepresented minority supplement to R01AA12857 2002-2005
National Institute of Alcoholism and Alcohol Abuse
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
National Institute of Alcoholism and Alcohol Abuse
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
National Institute of Alcoholism and Alcohol Abuse
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
National Institute of Alcoholism and Alcohol Abuse
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
National Institute of Alcoholism and Alcohol Abuse
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.

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-alters-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., Bayne, 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.

* 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* (epub ahead of print) doi: 10.1007/164_2017_86.

Books:

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

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-present

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.

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.

Scientific Presentations:

National:

1. *Neuropeptide Y reduces oral ethanol intake in alcohol-preferring (P) rats following a period of imposed ethanol abstinence*. Presented in a paper session 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 in a paper session 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 in a paper session 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 in a paper session at RSA meeting in Baltimore, Maryland, 2006.
5. *Behavioral and pharmacological validation of two models of pathological alcohol drinking*. Presented in symposium at the Winter Conference on Brain Research, Snowbird, Utah, 2008.
6. *Role of neuropeptide Y (NPY) in the transition to alcohol dependence*. Presented in symposium at RSA meeting in San Diego, CA, 2009.
7. *An animal model of post-traumatic stress disorder & alcohol-related behaviors*. Presented in symposium 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 in symposium at the RSA meeting in Atlanta, GA, 2011.
9. *Exposure to traumatic stress in rats differentially affects alcohol drinking and neuronal ERK phosphorylation*. Presented in nano-symposium at SfN meeting in New Orleans, LA, 2012.
10. *Nicotine-dependent rats exhibit increases in alcohol self-administration and altered sensitivity to varenicline*. Presented in session 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 in symposium 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 in symposium 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*. To be presented at the Gordon Research Conference (GRC) on Alcohol & the Nervous System in Galveston, TX, 2018.

International:

1. *A convergent pathway in the amygdala for brain stress peptides in alcohol dependence*. Presented in symposium at IDARS meeting in Seoul, South Korea, 2009.
2. *Extending the utility of alcohol vapor dependence procedures*. Presented in symposium at the ISBRA meeting in Paris, France, 2010.
3. *Neuropeptide Y suppresses alcohol drinking by decreasing inhibitory neurotransmission in central amygdala*. Presented in symposium at IDARS meeting in Rio de Janeiro, Brazil, 2010.
4. *A new animal model of post-traumatic stress disorder & alcohol dependence*. Presented in symposium at Alcoholism & Stress Meeting in Volterra, Italy, 2011.
5. *Alcohol dependence recruits neuropeptide Y (NPY) systems in extended amygdala*. Presented in symposium at ISBRA meeting in Sapporo, Japan, 2012.
6. *Neuropeptide Y in the extended amygdala of alcohol-dependent rats*. Presented in symposium at the International NPY-PPY-PP Meeting, Montreal, Canada, 2012.
7. *Nicotine vapor escalates nicotine self-administration & alters nAChR profiles*. Presented in symposium at IBNS meeting in Dublin, Ireland, 2013.
8. *High traumatic stress reactivity promotes alcohol drinking and recruits cortico-amygdalar circuitry*. Presented in symposium 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 in symposium 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 in symposium at IDARS meeting in Sydney, Australia, 2015.
11. *Central amygdala mediates hyperalgesia associated with traumatic stress & alcohol dependence*. Presented in symposium at ISBRA meeting in Berlin, Germany, 2016.
12. *Traumatic stress effects on brain CRFR1 signaling, nociception & alcohol drinking*. Presented in symposium 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. *The role of brain CRF-CRFR1 Signaling in stress-alcohol interactions*. To be presented at the Neurobiology of Stress Meeting in Banff, Canada, 2018.

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.

International:

1. *Amygdalar CRF mediates individual differences in stress-induced avoidance and hyperalgesia*. Invited talk at University of Calgary, Calgary, Alberta, Canada, June 2016.

Editorial Posts and Activities:

Journal Editorial Appointments:

Frontiers in Addictive Disorders and Behavioral Dyscontrol	2012-
Frontiers in Neuropharmacology	2016-
Neuropharmacology (Editorial Board member)	2016-

Special Topics Journal Editor:

Editor of "Brain Reward and Stress Systems in Addiction" 2013
Special Topic for *Frontiers in Addictive Disorders and Behavioral Dyscontrol*
Issue can be accessed at: <http://journal.frontiersin.org/ResearchTopic/1039>

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, European Journal of Neuroscience, European Neuropsychopharmacology, Genes Brain & Behavior, International Journal of Developmental Neuroscience, Journal of Addiction Medicine, Journal of Neuroscience, Neuropeptides, Neuropharmacology, Neuropsychopharmacology, 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, 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	2015-present

LSUHSC committees

LSU Strategic Plan, Research & Core Facilities Group, member	2013
LSUHSC-NO Information Technology (IT) Committee, member	2017-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-present
International Drug Abuse Research Society (IDARS)	
Organizing Committee for IDARS meeting, member	2017

Community Service Activities:

LSUHSC Comprehensive Alcohol Research Center (CARC)	2014-present
Information Dissemination Core; Role: Director (PI)	