

CURRICULUM VITAE
Scott Edwards PhD

Date: July 18, 2025
School: School of Medicine
Department/Program: Department of Physiology

Current Title: Associate Professor of Physiology and
Vice Chair for Training and Mentoring
Business Address: 2020 Gravier St. Room 734 New Orleans, LA 70112
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Initial Appointment Date: September 1, 2013
Current Academic Rank: Associate Professor with Tenure
Date of Appointment to Rank: July 1, 2019

Education:
1995-2000 Bachelor of Science Degree in Biochemistry
College of Natural Sciences
The University of Texas, Austin, TX

2000-2007 Doctor of Philosophy Degree in Neuroscience
Laboratory of David W. Self
Department of Psychiatry and Center for Basic Neuroscience
The University of Texas Southwestern Medical Center, Dallas, TX

2007-2013 Post-Doctoral Fellowship
Laboratory of George F. Koob
Committee on the Neurobiology of Addictive Disorders
The Scripps Research Institute, La Jolla, CA

Academic, Professional, and Research Appointments:

2013-2019 Tenure-Track Assistant Professor
Department of Physiology, LSU Health New Orleans

2013-Present Alcohol and Drug Abuse Center of Excellence
Neuroscience Center of Excellence, LSU Health New Orleans

2019-Present Associate Professor with Tenure
Associate Director, NIAAA T32 Training Program
Department of Physiology, LSU Health New Orleans

2023-Present Vice Chair for Training and Mentoring
Department of Physiology, LSU Health New Orleans

Membership in Professional Organizations:

1999-Present	Member, Society for Neuroscience (SFN)
2009-Present	Member, Research Society on Alcohol (RSA)
2014-Present	Member, American Physiological Society (APS)
2018-Present	Member, International Society for Biomedical Research on Alcoholism (ISBRA)
2018-Present	Member, Association for Women in Science (AWIS)
2022-Present	Member, American Interprofessional Health Collaborative

Awards and Honors:

1998-1999	University CO-OP Undergraduate Research Fellowship The University of Texas at Austin
1999	ASPET Summer Undergraduate Research Fellowship Department of Pharmacology, Vanderbilt University
2011	NIH/NIAAA Travel Award Second International Congress on Alcoholism and Stress, Volterra, Italy
2011	NIAAA Training Directors Meeting and Trainee Workshop Travel Award Center for Alcohol and Addiction Studies, Brown University
2013	Winter Conference on Brain Research Travel Fellowship 46 th Annual Meeting, Breckenridge, Colorado
2014	NIH/NIAAA Young Investigator Award Third International Congress on Alcoholism and Stress, Volterra, Italy
2015	American College on Neuropsychopharmacology (ACNP) Travel Award
2016	LSU School of Medicine Faculty Assembly Outstanding Accomplishments by a Junior Faculty Member Award
2018	American Physiological Society Central Nervous System Section New Investigator Award
2018	American Physiological Society Beverly Petterson Bishop Award for Excellence in Neuroscience
2019	American Physiological Society Pan American Congress Travel Award
2022	NIH/NIAAA Travel Award International Society on the Biomedical Research on Alcoholism
2023	Interprofessional Global Association Award for Outstanding Interprofessional Teamwork and Collaboration

TEACHING EXPERIENCE AND RESPONSIBILITIES

Formal Course Responsibilities

Since joining LSUHSC-New Orleans in 2013, my teaching and educational scholarship opportunities have steadily grown to become a valuable part of my academic career, inspired by the wealth of opportunities and dedicated educators around the health sciences center. My teaching has been largely focused in the areas of endocrine physiology and neuroscience. My primary endocrine teaching responsibilities occur within the School of Nursing (*Nursing Physiology*), School of Allied Health (*Biological Systems*), and School of Graduate Studies. I have also contributed to teaching in the neurosciences through my joint appointment with the Neuroscience Center of Excellence. Finally, I have contributed to the teaching mission of the Biomedical Sciences Program of the School of Graduate Studies (SGS) via the *Ethics in Biomedical Sciences* and *Experimental Design & Analysis* courses and as SGS Faculty Liaison to the Office of Interprofessional Education and Collaborative Practice. Lecture hours and evaluations are listed in the table below (**total of 335 hours; average of 30 hours per year**):

Summary of Teaching Responsibilities (Course Director* or Co-Director**)					
Year	LSUHSC School	Course Title	Course Number	Lecture Hours	Evaluations (4.0 scale)
2014	SGS/SAH	Biological Systems	INTER 132	6	3.6-3.8
2015	SGS/SAH	Biological Systems	INTER 132	6	3.4-3.6
	SGS	Endocrinology*	PHYSIO 216	8	
	SGS	Ethics in the Biomedical Sciences	INTER 220	1	
	SOD	General and Oral Physiology	DHY 3202	3	
	SON	Nursing Pathophysiology	HLSC 3410	1	3.4-3.5
2016	SGS/SAH	Biological Systems	INTER 132	7	3.8
	SGS	Ethics in the Biomedical Sciences	INTER 220	1	
	SGS	Molecular Neurobiology	NEURO 250	4	
	SOD	General and Oral Physiology	DHY 3202	1	
	SON	Nursing Pathophysiology	HLSC 3410	5	3.4-3.5
	SON	Nursing Physiology	HLSC 2410	8	3.5-3.6
2017	SGS/SAH	Biological Systems	INTER 132	7	3.4-3.7
	SGS	Experimental Design & Analysis	INTER 143	3	
	SGS	Ethics in the Biomedical Sciences	INTER 220	1	
	SGS	Molecular Neurobiology	NEURO 250	4	
	SGS	Special Topics: Physiology of Behavior*	PHYSIO 289	7	
	SOD	General and Oral Physiology	DHY 3202	1	
	SOD	Applied Oral Medicine	DENT 3116	2	
	SON	Nursing Pathophysiology	HLSC 3410	3	3.4-3.8
	SON	Nursing Physiology	HLSC 2410	16	3.4-3.8
2018	SGS/SAH	Biological Systems*	INTER 131/132	7	3.2-3.6
	SGS	Experimental Design & Analysis	INTER 143	3	
	SON	Nursing Pathophysiology	HLSC 3410	3	3.6
	SON	Nursing Physiology	HLSC 2410	16	3.6-3.7
2019	SGS/SAH	Biological Systems*	INTER 131/132	7	3.4-3.7
	SGS	Experimental Design & Analysis	INTER 143	3	
	SGS	Molecular Neurobiology	NEURO 250	4	
	SON	Nursing Pathophysiology	HLSC 3410	3	3.5-3.6
	SON	Nursing Physiology	HLSC 2410	12	3.5-3.6
	SOM	Tiger Scholars Summer Enrichment Program		4	
2020	SGS/SAH	Biological Systems*	INTER 131/132	7	3.7-3.9
	SGS	Experimental Design & Analysis	INTER 143	3	
	SGS	Responsible Conduct of Research II	INTER 280	1	
	SGS	Professionalism in Science I	INTER 200	1	
	SON	Nursing Pathophysiology	HLSC 3410	2	3.6-3.8
	SON	Nursing Physiology	HLSC 2410	12	3.4-3.6
	SGS	Special Topics in Physiology	PHYSIO 289	1	
	SOM	Tiger Scholars Summer Enrichment Program		4	

2021	SGS/SAH	Biological Systems*	INTER 131/132	5	3.2-4.0
	SGS	Introduction to Graduate Studies	INTER 102	2	
	SGS	Experimental Design & Analysis	INTER 143	3	
	SGS	Professionalism in Science I**	INTER 200	3	
	SGS	Professionalism in Science II**	INTER 240	1	
	SGS	Responsible Conduct of Research I	INTER 260	2	
	SON	Nursing Physiology	HLSC 2410	10	3.6-3.8
	SGS	Endocrinology*	PHYSIO 216	8	
	SGS	Special Topics: Perspectives in Alcohol Research	PHYSIO 289	1	
2022	SGS/SAH	Biological Systems*	INTER 131/132	5	3.5-3.9
	SGS	Experimental Design & Analysis	INTER 143	3	
	SGS	Professionalism in Science I**	INTER 200	2	
	SGS	Professionalism in Science II**	INTER 240	2	
	SGS	Responsible Conduct of Research I	INTER 260	1	
	SGS	Special Topics: Perspectives in Alcohol Research	PHYSIO 289	1	
	SON	Nursing Physiology	HLSC 2410	13	3.6-3.8
	SOD/SPH	Interdisciplinary Approach to Science Outreach	PUBH 6500	2	
2023	SOM	Experimental Design & Analysis**	PHYSIO 110	3	
	SOM	Medical Physiology	PHYSIO 100	1	
	SGS/SAH	Biological Systems*	INTER 131/132	7	3.5-3.9
	SGS	Experimental Design & Analysis	INTER 143	3	
	SGS	Professionalism in Science I**	INTER 200	2	
	SGS	Professionalism in Science II**	INTER 240	2	
	SGS	Responsible Conduct of Research I	INTER 260	1	
	SGS	Special Topics: Perspectives in Alcohol Research	PHYSIO 289	1	
	SGS	Cardiovascular Physiology	PHYSIO 212	3	
	SGS	Scientific Writing for Graduate Students	PHYSIO 250	2	
	SON	Nursing Physiology	HLSC 2410	14	3.7-3.8
2024	SOM	Experimental Design & Analysis**	PHYSIO 110	3	
	SOM	Medical Physiology	PHYSIO 100	1	
	SGS/SAH	Biological Systems**	INTER 131/132	7	3.8-3.9
	SGS	Integrated Systems in Biomedical Sciences I**	BIOMED 120	4	
	SGS	Experimental Design & Analysis	BIOMED 143	6	
	SGS	Professionalism in Biomedical Science I**	BIOMED 150	3	
	SGS	Professionalism in Science II**	INTER 240	2	
	SGS	Responsible Conduct of Research I	INTER 260	1	
	SGS	Scientific Writing for Graduate Students	PHYSIO 250	1	
	SON	Nursing Physiology	HLSC 2410	16	3.6-3.7
2025	SOM	Experimental Design & Analysis**	PHYSIO 110	3	
	SOM	Medical Physiology	PHYSIO 100	1	
	SAH	Human Physiology/Physiological Sciences**	PHYSIO 6523	7	3.9-4.0
	SGS	Integrated Systems in Biomedical Sciences II**	BIOMED 121	4	
	SGS	Techniques & Trends in Biomedical Sciences II	BIOMED 131	1	
	SGS	Experimental Design & Analysis	BIOMED 143	6	
	SGS	Professionalism in Biomedical Science I**	BIOMED 150	3	
	SGS	Professionalism in Science II**	INTER 240	2	
	SGS	Scientific Writing for Graduate Students	PHYSIO 250	1	
	SGS	Molecular Neurobiology	NEURO 250	4	
	SON	Nursing Physiology	HLSC 2410	9	3.6-3.7

Undergraduate, Medical, and Graduate Students Trained (2013-Present):

Undergraduate Students

2014 Meghan Blackwell (Howard University)
2015 Jonathan Reppel (Louisiana Tech University)
2016 Adrianna Jones (Louisiana State University)

2017	Scott Ng (University of Southern California)
2018	Melissa Berner (Loyola University-New Orleans)
2019	Amy Urbina Lopez (Tulane University)
2020	Sarah McQuirter (Tulane University) <i>*2020 Newcomb-Tulane College Research Scholarship</i>
2020-2021	Ngan Tran (ENDURE Scholar, LSU)
2020-2021	Elge Stevens (ENDURE Scholar, Xavier University of Louisiana)
2021	Julia Kapusta (Boston University)
2022	Noor Alrashed (ENDURE Scholar, Xavier University of Louisiana)
2024-Present	William Andrew Bruce (ENDURE Scholar, Xavier University of Louisiana)

Post-Baccalaureate Students

2019-2020	Chelsea Callicoatte (LSUHSC-NO PREP Scholar)
2020-2021	Roshaun Mitchell-Cleveland (LSUHSC-NO PREP Scholar)
2024-2025	Trinity Martin (LSUHSC-NO PREP Scholar)

Medical Students

2015-2016	Brooke Towne (LSUHSC School of Medicine)
2016	Maggie Coleman (LSUHSC School of Medicine)
2016	Robert Fuchs (NIAAA T35 Fellow, LSUHSC School of Medicine)
2019	Bradley Trimble (LSUHSC School of Medicine)
2021	Logan Gold (NIAAA T35 Fellow, LSUHSC School of Medicine)
2021	Taylor Fitzpatrick-Schmidt (NIAAA T35 Fellow, LSUHSC School of Medicine)
2022	Sumin (Stephanie) Lee (NIAAA T35 Fellow, LSUHSC School of Medicine)
2023-Present	Amy Brouillette (NIAAA T35 Fellow, LSUHSC School of Medicine) LSUHSC School of Medicine Honors Program
2024-Present	Drew Bookman (NIAAA T35 Fellow, LSUHSC School of Medicine) LSUHSC School of Medicine Honors Program <i>*2024 Steve Nelson, MD Award for Excellence in Alcohol Research</i>
2025-Present	Zhaoyi Li (NIAAA T35 Fellow, LSUHSC School of Medicine)

Graduate Students

2014-2019	Adrienne McGinn (LSUHSC-NO Physiology) - Dissertation Advisor <i>*2018 Department of Physiology Roheim Award of Research Excellence</i> <i>*2020 School of Graduate Studies Chancellor's Award</i>
2017-2019	Adrienne McGinn (LSUHSC-NO Physiology) - NIH/NIAAA F31 Sponsor
2015-2018	Allyson Schreiber (LSUHSC-NO Physiology) - NIH/NIAAA F30 Co-Sponsor
2016-2017	Rod Paulsen (LSUHSC-NO Master's Program) - Thesis Advisor
2017-2018	Mackenzie Schindler (Tulane University) - Master's Research Advisor
2018-2023	Jessica Cucinello-Ragland (LSUHSC-NO Physiology) - Dissertation Advisor <i>*2020 Department of Physiology Roheim Award of Research Excellence</i>
2020-2023	Jessica Cucinello-Ragland (LSUHSC-NO Physiology) - NIH/NIAAA F31 Sponsor
2020-2022	Muhammad Farooq (LSUHSC-NO Cell Biology) - NIH/NIAAA F30 Co-Sponsor
2021-2022	Elge Stevens (Tulane University) - Master's Research Advisor
2022-2025	Taylor Fitzpatrick-Schmidt (LSUHSC-NO Physiology) <i>*2024 Department of Physiology Roheim Award of Research Excellence</i> <i>*2025 School of Graduate Studies Chancellor's Award</i>
2022-2027	Taylor Fitzpatrick-Schmidt (LSUHSC-NO Physiology) - NIH/NIAAA F30 Sponsor
2023-Present	Sumin (Stephanie) Lee (LSUHSC-NO Physiology) – NIH/NIAAA F30 Sponsor

Thesis and Dissertation Committees:

2014	Thesis Committee - Brittni Baynes (LSUHSC-NO Physiology)
2014-2016	Dissertation Committee - Jacques Mayeux (LSUHSC-NO Physiology)
2014-2017	Dissertation Committee - John Maxi (LSUHSC-NO Physiology)
2015-2018	Dissertation Committee - Allyson Schreiber (LSUHSC-NO Physiology)
2015-2019	Dissertation Committee - Alyssa Fournett (LSUHSC-NO Pharmacology)
2015-2019	Dissertation Committee - Van Ninh (LSUHSC-NO Physiology)
2016-2018	Dissertation Committee - Elia El Hajj (LSUHSC-NO Physiology)
2017-2022	Dissertation Committee - Ariel Amgott-Kwan (Tulane Neuroscience)
2018-2019	Dissertation Committee - Laura Erwin (LSUHSC-NO Pharmacology)
2018-2020	Dissertation Committee - Zachary Stielper (LSUHSC-NO Physiology)
2019-2021	Dissertation Committee - Brittany Foret (LSUHSC-NO Physiology)
2019-2022	Dissertation Committee - Muhammad Farooq (LSUHSC-NO Cell Biology)
2019-2023	Dissertation Committee - Taylor Templeton (LSUHSC-NO Physiology)
2020-2022	Dissertation Committee - Nicholas Fried (LSUHSC-NO Physiology)
2020-2022	Dissertation Committee - Nathan Sharfman (LSUHSC-NO Physiology)
2020-2023	Dissertation Committee - Eleanor Holmgren (LSUHSC-NO Cell Biology)
2020-Present	Dissertation Committee - Hannah Kramer (LSUHSC-NO Pharmacology)
2021-2022	Thesis Committee - Chelsea Duplantis (LSUHSC-NO Physiology)
2022-2024	Dissertation Committee - Tamara Morris (LSUHSC-NO Pharmacology)
2024-Present	Dissertation Committee - Nicholas Harris (LSUHSC-NO Physiology)
2024-Present	Dissertation Committee - Meagan Donovan (LSUHSC-NO Physiology)
2025-Present	Dissertation Committee - Sarah Melton (LSUHSC-NO Pharmacology)
2025-Present	Dissertation Committee - Kaitlin Couvillion (LSUHSC-NO Physiology)

Post-Doctoral or Post-Residency Fellows Trained:

2014-2015	Dr. Dana LeBlanc (LSUHSC-NO Pediatrics/Hematology/Oncology Fellow) <i>Currently Associate Professor of Clinical Pediatrics, LSUHSC-NO</i>
2015-2020	Dr. Amanda Pahng (LSUHSC-NO Physiology) <i>Currently Assistant Professor of Physiology, LSUHSC-NO</i>
2019-2020	Dr. Elizabeth Delery (LSUHSC-NO Physiology) <i>Currently Assistant Professor of Microbiology and Immunology, Marian University</i>
2023-Present	Dr. Shannin Moody (LSUHSC-NO Neurology) NIH/NINDS D-SPAN F99/K00 Co-Sponsor
2023-Present	Dr. Xavier Chapa (LSUHSC-NO Physiology) NIH/NIAAA F32 Co-Sponsor

RESEARCH AND SCHOLARSHIP

Currently Funded Grants and Contracts:

01/01/2020-12/31/2024 (Renewal pending for 2024-2029)
LSUHSC Comprehensive Alcohol-HIV/AIDS Research Center
National Institute on Alcohol Abuse and Alcoholism (P60AA009803)
Edwards (PI of RC3 and Information Dissemination Core, 30% effort) \$5,162,904
This P60 investigates physiological mechanisms underlying HIV- and alcohol-related comorbidities, including dissemination of findings and related information to health care professionals and the public.

01/01/2020-12/31/2025 (NCE)

Inspiring Diversity to Explore the Brain in the 21st Century: The NINDS/LSUHSC-NO, Undergraduate Diversity in Neuroscience Research Experiences

National Institute of Neurological Disorders and Stroke (R25NS114309)

Edwards (MPI, 2% effort) \$829,576

The ENDURE program trains the next generation of neuroscientists with a focus on individuals from underrepresented backgrounds.

09/01/2022-08/31/2025 (NCE)

Interaction of Biopsychosocial Stress, Alcohol Misuse, and Neurobehavioral Sequelae of COVID-19

National Institute on Alcohol Abuse and Alcoholism (R21AA030206)

Edwards (MPI, 6% effort) \$404,250

09/27/2023-09/26/2028

Preclinical Medications Development Screening in Dependent, Affect and Pain Models of Alcoholism

National Institute on Child Health and Human Development (75N94023C00014)

Edwards (PI, 22% effort) \$1,293,742

04/01/2024-03/31/2029

Medical Student Alcohol Research Internship

National Institute on Alcohol Abuse and Alcoholism (T35AA021097)

Edwards (MPI, 10% effort) \$196,140

05/01/2025-04/30/2026

SRP-001: A Non-Opioid and Non-Hepatotoxic Analgesic for the Treatment of Pain in the Context of Alcohol Use Disorder

LSU Health School of Medicine Research Enhancement Program \$75,000

This bridge grant will examine the analgesic efficacy and safety of the acetaminophen derivative SRP-001, currently set for Phase II clinical trials for acute and neuropathic pain. We wish to examine the efficacy, safety, and central mechanism of action of SRP-001 in alcohol-dependent animals, which may support future indications of this therapy for the treatment of alcohol use disorder (AUD)-related excessive drinking and pain-related symptoms.

Grants Pending:

07/01/2025-06/30/2027 (4% score, JIT received & submitted)

Targeting the Renin System for the Treatment of Pain and Opioid Use Disorder

National Institute on Drug Abuse (R21DA058533)

Edwards, Pahng (MPI)

04/01/2026-03/31/2030 (Pending Study Section Review)

Sustainable Program for Health Care Professionals to Develop Skills and Confidence Related to Alcohol Use Screening and Treatment (SCAST for Health Care Professionals)

National Institute on Alcohol Abuse and Alcoholism (R25AA033014)

Edwards, Phillippi, Molina (MPI)

Past Funded Grants and Contracts:

10/01/2003-09/30/2006

Protein Phosphorylation States in Drug Addiction

National Institute on Drug Abuse (F31DA016472)

Edwards (PI)

This predoctoral NRSA examined the association between mesolimbic protein phosphorylation status and individual differences in cocaine self-administration in animals.

04/13/2009-07/12/2011

Role of Vasopressin/ERK Signaling in Ethanol Dependence

National Institute on Alcohol Abuse and Alcoholism (F32AA018250)

Edwards (PI)

This postdoctoral NRSA examined the functional role of vasopressin V1b receptors in the escalation of drinking evident in alcohol-dependent animals.

09/01/2012-08/31/2018

Intersection of Pain and Ethanol-Seeking Mechanisms in Ethanol Dependence

National Institute on Alcohol Abuse and Alcoholism (K99/R00AA020839)

Edwards (PI) \$170,546/yr.

This Pathway to Independence Award examined the mechanistic link between excessive drinking and hyperalgesia in alcohol-dependent animals.

11/01/2014-10/31/2015

Neuronal ERK/MAPK Signaling in a Mouse Model of Sickle Cell Disease Pain

LSUHSC Department of Pediatrics Intramural Clinical and Translational Grants Program

Edwards (Co-PI) \$25,000

This grant investigated neuroadaptations in pain-related brain areas in a transgenic mouse model of sickle cell disease.

01/01/2015-12/31/2015

Combinations of Levomepromazine and Morphine for Analgesia in Recovered Addicts

LSUHSC Alcohol and Drug Abuse Center of Excellence Pilot Grant Program

Edwards (Co-PI) \$15,000

This grant examined the opioid-sparing efficacy of levomepromazine for analgesia.

09/15/2017-09/14/2020

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

National Institute on Alcohol Abuse and Alcoholism (R21AA025736)

Edwards (PI) \$250,000

This grant examined the neurobiological interactions of alcohol and nicotine dependence, with a focus on excitatory glutamatergic signaling in the prefrontal cortex and central amygdala.

09/15/2017-09/14/2022

Traumatic Stress Increases Alcohol Drinking via Endocannabinoid Disinhibition of BLA

National Institute on Alcohol Abuse and Alcoholism (R01AA026531)

Gilpin/Tasker MPI (Edwards Co-Investigator) \$250,000/yr.

This grant determined the role of amygdala endocannabinoid signaling dysregulation in promoting the escalation of drinking in an animal model of post-traumatic stress disorder (PTSD).

11/01/2017-10/31/2018

Central Neuropharmacological Mechanisms of Pain and Alcohol Dependence

LSU Health School of Medicine Research Enhancement Program \$70,000

This bridge grant generated additional preliminary data in support of future R01 submissions aimed at discovering novel therapeutic strategies for alcohol dependence and pain, with a focus on glucocorticoid signaling mechanisms.

07/01/2018-06/30/2023

Alcohol and Traumatic Brain Injury, Neuronal and Behavioral Consequences

National Institute on Alcohol Abuse and Alcoholism (R01AA025792)

Molina/Gilpin MPI (Edwards Co-Investigator) \$250,000/yr.

This grant examined the efficacy of boosting endogenous cannabinoid signaling to reduce escalated drinking in the context of traumatic brain injury (TBI).

07/01/2018-06/30/2025

Vasopressin Signaling in Pain and Alcohol Dependence

National Institute on Alcohol Abuse and Alcoholism (R01AA025996)

Edwards (PI) \$250,000/yr.

This grant determined the functional role of vasopressin signaling in the manifestation of excessive drinking and hyperalgesia in alcohol-dependent animals.

04/13/2021-11/30/2022

Alzheimer's Associated Neuropathology: Risk Modification by Alcohol in Antiretroviral-Treated SIV-Infected Rhesus Macaques

National Institute on Alcohol Abuse and Alcoholism Supplement to P60AA009803

Edwards (Co-Investigator) \$367,500

Major Area of Research Interest

Preclinical research interests in our laboratory center around the investigation of neurobiological changes associated with altered motivational systems in the context of substance use disorders (SUDs). Our research strategy is to first determine alterations in neuronal signaling following excessive drug or alcohol use, and then to investigate which neuroadaptations are most critically involved in driving excessive substance use and co-morbid conditions. Our most recent focus is on the interaction of SUD and chronic pain. Employing animal models of these conditions, we are investigating how inflammatory and HIV-related pain alters central reinforcement circuitry and motivated behavior. Our studies primarily measure protein- and phosphoprotein-level neuroadaptations in higher brain centers responsible for the establishment and maintenance of SUD. Dr. Edwards is also a member of the translational LSU Health New Orleans NIH-funded P60 Comprehensive Alcohol-HIV/AIDS Research Center, where he is PI of RC3: *Alcohol Use Disorder and Associated Neurological Symptoms of Cognitive Dysfunction and Pain*. This component includes investigation of people living with HIV in association with the New Orleans Alcohol Use in HIV (NOAH) study. We focus on stress-related glucocorticoid receptor (GR) signaling, which integrates and impacts virtually all physiological systems. Alterations in GR activity may represent critical intersections across research components RC1 (community & psychological stress), RC2 (metabolic risk), RC3 (neurological damage), and RC4 (immune system dysregulation). These projects involve close collaboration with distinguished LSU Health and national investigators with a major emphasis on team science.

Journal Publications (Refereed, *Corresponding Author):

1. **Edwards S**, Simmons DL, Galindo DG, Doherty JM, Scott AM, Hughes PD, Wilcox RE. Antagonistic effects of dopaminergic drugs and ethanol on PKA-mediated phosphorylation of DARPP-32 and the NR1 subunit of the NMDA receptor. Alcoholism: Clinical and Experimental Research 2002 26(2): 173-80. (JIF 3.0, 2023)
2. Choi KH, Rahman Z, **Edwards S**, Hall S, Neve RL, Self DW. Opposite effects of GluR1 and PKA-resistant GluR1 overexpression in the ventral tegmental area on cocaine reinforcement. Annals of the New York Academy of Sciences 2003 1003: 372-4. (JIF 4.1, 2023)
3. Bolaños CA, Perrotti LI, **Edwards S**, Eisch AJ, Barrot M, Olson VG, Russell DS, Neve RL, and Nestler EJ. Phospholipase C in distinct regions of the ventral tegmental area differentially modulates mood-related behaviors. The Journal of Neuroscience 2003 23: 7569-7576. (JIF 4.4, 2023)
4. Perrotti LI, Bolaños CA, Choi KH, Russo SJ, **Edwards S**, Ulery PG, Wallace DL, Self DW, Nestler EJ, and Barrot M. Delta FosB accumulates in a GABAergic cell population in the posterior tail of the ventral tegmental area after psychostimulant treatment. European Journal of Neuroscience 2005 21: 2817-2824. (JIF 2.7, 2023)
5. Olson VG, Zabetian CP, Bolaños CA, **Edwards S**, Barrot M, Eisch AJ, Hughes T, Self DW, Neve RL, and Nestler EJ. Regulation of drug reward by CREB: Evidence for two functionally distinct subregions of the ventral tegmental area. The Journal of Neuroscience 2005 25: 5553-5562. (JIF 4.4, 2023)
6. **Edwards S**, Self DW. Monogamy: Dopamine ties the knot. Nature Neuroscience 2006 9(1): 7-8. (JIF 21.3, 2023)
7. **Edwards S**, Whisler KN, Fuller D, Orsulak PJ, Self DW. Addiction-related alterations in D1 and D2 dopamine receptor responsiveness following chronic cocaine self-administration. Neuropsychopharmacology 2007 32: 354-366. (JIF 6.6, 2023)
8. **Edwards S**, Graham DL, Bachtell RK, Self DW. Region-specific tolerance to cocaine-regulated cAMP-dependent protein phosphorylation following chronic cocaine self-administration. European Journal of Neuroscience 2007 25: 2201-2213. (JIF 2.7, 2023)
9. Graham DL, **Edwards S**, Bachtell RK, DiLeone RJ, Rios M, Self DW. Dynamic BDNF activity in nucleus accumbens with cocaine use increases self-administration and relapse. Nature Neuroscience 2007 10(8): 1029-1037. (JIF 21.3, 2023)
10. Graham DL, Krishnan V, Larson EB, Graham A, **Edwards S**, Bachtell RK, Simmons D, Gent LM, Berton O, Bolanos CA, DiLeone RJ, Parada LF, Nestler EJ, Self DW. Tropomyosin-Related Kinase B in the mesolimbic dopamine system: region-specific effects on cocaine reward. Biological Psychiatry 2009 65(8): 696-701. (JIF 9.6, 2023)
11. **Edwards S**, Graham DL, Whisler KN, Self DW. Phosphorylation of GluR1, ERK, and CREB following spontaneous withdrawal from chronic heroin self-administration. Synapse 2009 63(3): 224-235. (JIF 1.6, 2023)

12. Orio L, **Edwards S**, George O, Parsons L, Koob GF. A role for the endocannabinoid system in the increased motivation for cocaine in dependence. The Journal of Neuroscience 2009 29(15): 4846-4857. (JIF 4.4, 2023)
13. Enwright JF, Wald M, Paddock M, Hoffman E, Arey R, **Edwards S**, Spencer S, Nestler EJ, McClung CA. Δ FosB indirectly regulates CCK promoter activity. Brain Research 2010 1329: 10-20. (JIF 2.7, 2023)
14. Taffe MA, Kotzebue RW, Crean RD, Crawford EF, **Edwards S**, Mandyam CD. Long-lasting reduction in hippocampal neurogenesis by alcohol consumption in adolescent nonhuman primates. Proceedings of the National Academy of Sciences U.S.A. 2010 107(24): 11104-11109. (JIF 9.4, 2023)
15. **Edwards S**, Koob GF. The neurobiology of dysregulated motivational systems in drug addiction. Future Neurology 2010 5(3): 393-410. (JIF 0.6, 2023)
16. Larson EB, Akkentli F, **Edwards S**, Graham DL, Simmons DL, Alibhai IN, Nestler EJ, Self DW. Striatal regulation of DeltaFosB, FosB, and cFos during cocaine self-administration and withdrawal. Journal of Neurochemistry 2010 115(1): 112-122. (JIF 4.2, 2023)
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39. McGinn MA, Farooq MA, Reppel JE, Gilpin NW, **Edwards S**. Tolerance to alcohol-stimulated GluR1 phosphorylation in the amygdala in the context of nicotine dependence. *American College of Neuropsychopharmacology Meeting* (2015).
40. Whitaker AM, Farooq MA, **Edwards S**, Gilpin NW. Post-traumatic stress avoidance is attenuated by corticosterone and associated with brain levels of steroid receptor co-activator-1 in rats. *American College of Neuropsychopharmacology Meeting* (2015).
41. McGinn MA, Farooq M, Edwards KN, Gilpin NW, **Edwards S**. Tolerance to alcohol-stimulated GluR1 phosphorylation in the amygdala in the context of nicotine dependence. Alcoholism-Clinical and Experimental Research 39 (2015) 123A.
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45. McGinn MA, Whitaker AM, Itoga CA, Farooq MA, Paulsen RI, Reppel JE, Gilpin NW, **Edwards S**. Region-specific tolerance to alcohol-stimulated glutamate receptor phosphorylation in the context of nicotine dependence. *Research Society on Alcoholism Meeting (2016)*.
46. Middleton JW, Simon L, Maxi J, Schumacher J, **Edwards S**, Birke L, Molina P. Physiological synaptic changes in the caudate nucleus of acute alcohol-administered SIV-infected macaques. *Research Society on Alcoholism Meeting (2016)*.
47. Molina PE, Mayeux JP, **Edwards S**, Gilpin NW, Middleton J. Neuroimmunopathological consequences of TBI; Implications for escalation in alcohol drinking. *Research Society on Alcoholism Meeting (2016)*.
48. McGinn MA, Itoga CA, Paulsen RI, Reppel JE, Farooq MA, Gilpin NW, **Edwards S**. Tolerance to alcohol-stimulated glutamate channel phosphorylation in the central amygdala and prefrontal cortex after chronic nicotine exposure. *Experimental Biology Meeting (2016)*.
49. Towne BV, LeBlanc DM, Paul JA, Gupta K, **Edwards S**. Reduced glutamate channel phosphorylation in pain-related brain areas in a transgenic model of sickle cell disease. *Experimental Biology Meeting (2016)*.
50. Byerley LO, Reppel JE, Pahng AR, **Edwards S**. Omega-3 dietary fatty acids improve spatial learning and memory but do not alter the escalation of alcohol drinking. *Experimental Biology Meeting (2016)*.
51. Mayeux JP, Katz P, Edwards S, Middleton J, Molina P. Inhibition of endocannabinoid degradation improves recovery of neurobehavioral function and resolution of neuroinflammation and synaptic hyperexcitability in a rodent model of traumatic brain injury. *Experimental Biology Meeting (2016)*.
52. Itoga CA, McGinn MA, Paulsen RI, Reppel JE, Farooq MA, Gilpin NW, **Edwards S**. Tolerance to alcohol-stimulated glutamate channel phosphorylation in the central amygdala and prefrontal cortex after chronic nicotine exposure. *Gordon Research Conference: Alcohol & the Nervous System (2016)*.
53. McGinn MA, Pahng AR, Edwards KN, **Edwards S**. Neuroadaptations in cingulate cortex glucocorticoid signaling in alcohol dependence. *Research Society on Alcoholism Meeting (2017)*.
54. Pahng AR, Farooq MA, Edwards KN, **Edwards S**. Impaired spatial memory and dysregulation of hippocampal JNK signaling in alcohol dependence. *Research Society on Alcoholism Meeting (2017)*.
55. Francis M, Sayde P, Blackwelder C, Stiepler Z, Mayeux J, Gilpin N, **Edwards S**, Molina P. Post-TBI alcohol consumption reduces memory-related hippocampal transcription factor expression. *Research Society on Alcoholism Meeting (2017)*.
56. Pahng AR, Paulsen RI, Farooq MA, Edwards KN, **Edwards S**. Dysregulation of hippocampal and frontocortical JNK signaling in alcohol dependence. *Volterra Alcoholism and Stress Conference Abstracts (2017)*.

57. McGinn MA, Pahng AR, Edwards KN, **Edwards S**. Neuroadaptations in cingulate cortex glucocorticoid signaling in alcohol dependence. *Volterra Alcoholism and Stress Conference Abstracts (2017)*.
58. Blackwelder CG, Stielper Z, Sayde P, Mayeux J, Gilpin NW, **Edwards S**, Molina PE. Ceftriaxone attenuates alcohol-drinking and anxiety-like behavior following mild traumatic brain injury in rats. *IBIA Abstract (2017)*.
59. Stielper ZF, Mayeux JP, **Edwards S**, Gilpin NW, Molina PE. Post-traumatic brain injury (TBI) cannabinoid receptor expression downregulation in basolateral amygdala of alcohol-drinking rats. *IBIA Abstracts (2017)*.
60. Jones A, Pahng A, **Edwards S**. Dysregulation of Hippocampal and Dorsomedial Prefrontal JNK Phosphorylation in Alcohol Dependence is not Mediated by SEK1/MKK4 Activation. *Annual Biomedical Research Conference for Minority Students Abstracts (2017)*.
61. McGinn MA, **Edwards S**. Glucocorticoid Receptor-Dependent Gene Expression in the Central Amygdala of Alcohol-Dependent Animals. *Experimental Biology Meeting Abstracts (2018)*.
62. AR Pahng, RI Paulsen, MA McGinn, ME Schindler, KN Edwards, **Edwards S**. Neurobiological Correlates of Pain Avoidance Behavior in Opioid vs. Alcohol Dependence. *Experimental Biology Meeting Abstracts (2018)*.
63. **Edwards S**, Yeh AY, Molina PE, Simon L. Animal model of combined alcoholic neuropathy and complex regional pain syndrome: additive effects on hyperalgesia in female rats. *Research Society on Alcoholism Meeting Abstracts (2018)*.
64. **Edwards S**, Levitzky E, Molina PE, Gunaldo TP. Interprofessional education (IPE) to equip healthcare professional students for future team-based alcohol use disorder treatment. *Research Society on Alcoholism Meeting Abstracts (2018)*.
65. Wills TA, Middleton JW, Carzoli KL, Simon L, Molina PE, **Edwards S**. Impaired novel object recognition and altered neuronal excitability in chronic binge alcohol-administered, SIV-infected female rhesus macaques. *Research Society on Alcoholism Meeting Abstracts (2018)*.
66. **Edwards S**, Maxi JK, Wills TA, Middleton JW, Carzoli KL, Simon L, Molina PE. Neuropathological mechanisms of alcohol, SIV, and antiretroviral therapy: Enhanced susceptibility of the frontal cortex in rhesus macaques. *AIDS 2018 Conference Abstracts (2018)*.
67. Cucinello JA, Berner ME, Pahng AR, Edwards KN, **Edwards S**. Differential effects of opioid versus alcohol dependence on pain avoidance behavior and regional endocannabinoid system deficiency. Society for Neuroscience Meeting 2019.
68. Cucinello JA, **Edwards S**, Yeh AY, Molina PE, Simon L. Sex differences in an animal model of combined alcoholic neuropathy and complex region pain syndrome. Research Society on Alcoholism Meeting 2019. *Alcoholism: Clinical and Experimental Research* 126 (2019) 502.
69. Simon L, Yeh AY, Adler KA, **Edwards S**, Molina PE. Impaired recovery following hind limb immobilization: alcohol-mediated mechanisms. Program of the Pan-American Congress of Physiological Sciences (2019).

70. **Edwards S**, Ferguson TF, Gunaldo TP, Molina PE. Evidence that interprofessional education (IPE) reduces stigma and improves confidence in the future team-based treatment of alcohol use disorder. *Research Society on Alcoholism Meeting Abstracts (2020)*.
71. Cucinello JA, Trimble WB, Urbina AP, Edwards KN, Molina PE, Simon L, **Edwards S**. Cingulate cortex neuroadaptations in a female rodent model of combined alcoholic neuropathy and complex regional pain syndrome. Research Society of Alcoholism Meeting 2020.
72. Cucinello JA, Berner ME, Pahng AR, Edwards KN, **Edwards S**. Differential effects of opioid versus alcohol dependence on pain avoidance behavior and regional endocannabinoid system deficiency. Experimental Biology Meeting 2020. *FASEB J.* 34 (2020) S1.
73. Cucinello-Ragland JA, Berner ME, McQuirter S, Pahng AR, Edwards KN, **Edwards S**. *Neurobiological correlates of pain avoidance behavior in alcohol- and opioid- withdrawal*. International Behavioral Neuroscience Society. Virtual poster presentation. 2020.
74. Cucinello JA, Mitchell-Cleveland R, Trimble WB, Urbina AP, Yeh AY, Edwards KN, Molina PE, Simon Peter L, **Edwards S**. *Neurobiological adaptations in a female rat model of combined alcoholic neuropathy and complex regional pain syndrome*. The STEM Village Virtual Symposium. Invited oral presentation. 2020.
75. Cucinello-Ragland JA and **Edwards S**. Sex differences in the comparative efficacy of alcohol to alleviate the somatic versus negative motivational aspects of chronic pain. Research Society of Alcoholism Meeting 2021. *Alcoholism: Clinical and Experimental Research* 45 (2021) S1.
76. Cucinello-Ragland JA, Trimble WB, Urbina AP, Edwards KN, Molina PE, Simon L, **Edwards S**. Cingulate cortex neuroadaptations in a female rodent model of combined complex regional pain syndrome and alcoholic neuropathy. Experimental Biology Meeting 2021. *FASEB J.* 35 (2021) S1.
77. Cucinello-Ragland JA, Gold LC, Edwards KN, **Edwards S**. *Sex-dependent effects of alcohol on inflammatory pain and limbic system neuroadaptations in the context of pain*. American Physiological Society New Trends in Sex and Gender Medicine. Virtual poster presentation. 2021.
78. Fitzpatrick-Schmidt T, Marathonitis S, Coleman L, Edwards K, Simon L, Molina P, **Edwards S**. Neurobiological consequences of chronic binge alcohol exposure and ovariectomy on markers of hippocampal plasticity in SIV-infected female rhesus macaques. American Physiological Society's New Trends in Sex and Gender Medicine. Virtual. October 2021.
79. Cucinello-Ragland JA, Gold LC, Edwards KN, **Edwards S**. *Sex-dependent effects of alcohol on inflammatory pain and limbic system neuroadaptations in the context of pain*. Society for Neuroscience. Virtual poster presentation. 2021.
80. Cucinello-Ragland JA, Tran NT, Bajo M, Roberto M, **Edwards S**. *Alcohol amplifies neuroinflammatory IL-6 pathway signaling in the prefrontal cortex*. Alcohol and Immunology Research Interest Group (AIRIG). Invited oral presentation. Alcohol. 2021. 96.
81. Baudoin C, Allen H, **Edwards S**, Hogan M, Sanne S, Straif-Bourgeois S, Gunaldo T. Outcomes of a Two-Year Longitudinal Interprofessional Education (IPE) Curriculum: Differences in Outcomes Using SPICE-R2 Across Participating Professional Schools. 2022 Heartland Interprofessional Education Conference.

82. Simon L, Bourgeois B, Elnaggar J, **Edwards S**, Molina PE. Chronic alcohol-mediated alterations in plasma extracellular vesicle microRNA profile in SIV infection. Program of the International Union of Physiological Sciences (2022).
83. Dubic M, Simon L, McDaniel L, **Edwards S**, Molina PE. Differential antinociceptive gene expression patterns in PBMCs and frontal cortex of chronic binge alcohol administered SIV-infected rhesus macaques. Program of the 45th Annual Meeting of the Research Society on Alcoholism (2022).
84. Fitzpatrick-Schmidt T, Marathonitis S, Coleman L, Edwards K, Simon L, Molina PE, **Edwards S**. Neurobiological consequences of chronic binge alcohol administration and ovariectomy on markers of hippocampal plasticity in SIV-infected female rhesus macaques. Program of the 45th Annual Meeting of the Research Society on Alcoholism (2022).
85. Fitzpatrick-Schmidt T, Rosen E, Welsh D, Simon L, **Edwards S**, Molina P, Ferguson T. Cardiometabolic risk factors, alcohol use, and cognition in people living with HIV. Research Society on Alcohol Annual Scientific Meeting. Orlando, FL. June 2022.
86. Cucinello-Ragland JA, Edwards KN, **Edwards S**. Sex-specific effects of alcohol on inflammatory pain and corticolimbic endocannabinoid signaling. Gordon Research Seminar: Multilevel Neuronal Targets for Alcohol Interventions. Invited oral presentation. 2022.
87. Cucinello-Ragland JA, Edwards KN, **Edwards S**. Sex-specific effects of alcohol on inflammatory pain and corticolimbic endocannabinoid signaling. Gordon Research Conference: Neurobiology of Alcohol Use Disorder and CNS Comorbidities. Poster presentation. 2022.
88. Baudoin C, Allen H, Dicharry M, **Edwards S**, Held D, Hogan M, Mazumder H, Straif-Bourgeois S, Gunaldo T. Transforming perceptions of interprofessional education in undergraduate baccalaureate nursing students in a health sciences center. American Association of Colleges of Nursing Transform Conference (2022).
89. Morris T, Cucinello-Ragland J, **Edwards S**, Winsauer PJ. Effects of cannabinoids and a cannabinoid extract on thermal nociception and conditioned behavior. American Society on Pharmacology and Experimental Therapeutics Abstracts (2022).
90. Gunaldo T, Allen H, Baudoin C, **Edwards S**, Wilks O, Roberts L. Community members' and student perspectives of a community-based interprofessional educational experience: A panel presentation. NEXIS Summit (2022).
91. Gunaldo T, **Edwards S**, Baudoin C. Evaluating Learning of IPEC Sub-Competencies Through Written Reflections. Interprofessional Education Collaboration (IPEC) 2022 Virtual Poster Fair (2022).
92. Cucinello-Ragland JA, Alrashed NH, Lee S, Edwards KN, **Edwards S**. Sex differences in alcohol-induced anti-nociception and corticolimbic endocannabinoid neuroadaptations. Society for Neuroscience. Poster presentation. 2022.

93. **Edwards S**, Allen H, Baudoin C, Hogan M, Sanne S, Straif-Bourgeois S, Zamjahn J, Molina P, Gunaldo T. Interprofessional student team development of an annual wellness visit for human immunodeficiency virus (HIV) prevention and care. APS Summit Abstracts (2023).
94. Baudoin C, Allen H, Dicharry M, **Edwards S**, Held D, Hogan M, Mazumder H, Straif-Bourgeois S, Gunaldo T. Let's Talk: Evaluating team development in a longitudinal IPE experience. Society for Simulation in Healthcare Accreditation (2023).
95. Baudoin C, Allen H, Dicharry M, **Edwards S**, Held D, Hogan M, Mazumder H, Straif-Bourgeois S, Gunaldo T. Let's Talk: Evaluating team development in a longitudinal IPE experience. Collaborating Across Borders VIII Conference (2023).
96. Gunaldo T, Baudoin C, Mazumder H, **Edwards S**. Taking an in-depth look: Longitudinal IPE curriculum outcomes. Eleventh International Conference on Interprofessional Education and Collaborative Practice (IPECP), All Together Better Conference (2023).
97. Fitzpatrick-Schmidt T, Cucinello-Ragland J, Marathonitis S, Edwards K, **Edwards S**. Alcohol alleviates HIV gp120-induced neuropathic pain. Research Society on Alcohol Annual Scientific Meeting. Bellevue, WA. June 2023.
98. Fitzpatrick-Schmidt T, Coleman L, Edwards K, Simon L, Molina P, **Edwards S**. Chronic binge alcohol-induced hippocampal plasticity in SIV-infected female rhesus macaques. American Physiological Summit. Long Beach, CA. April 2023.
99. Fitzpatrick-Schmidt T, Molina PE, **Edwards S**, Ferguson T. Cardiometabolic Risk Factors, Alcohol Use, and Cognitive Decline in People with HIV. Alcohol-Induced End-Organ Diseases Gordon Research Conference. Ventura, CA. March 2023.
100. Chapa X, Vita S, **Edwards S**, Simon L, Gilpin NW, Molina PE. The Effect of Alcohol on Mitochondrial Alterations in the Frontal Lobe Induced by rmTBI in Adolescence. Annual National Hispanic Science Network Conference 2023, Arlington, VA.
101. Fitzpatrick-Schmidt T, Cucinello-Ragland J, Marathonitis S, Edwards K, Welsh D, Molina P, **Edwards S**. Analgesic efficacy of alcohol in reducing HIV-associated neuropathic pain in preclinical and clinical settings. Southeastern Medical Scientist Symposium. Atlanta, GA. November 2023.
102. Fitzpatrick-Schmidt T, Cucinello-Ragland J, Marathonitis S, Edwards K, Welsh D, Molina P, **Edwards S**. Analgesic efficacy of alcohol in the context of HIV-associated pain. Winter Conference on Brain Research. Breckenridge, CO. January 2024.
103. Chapa X, Vita S, **Edwards S**, Simon L, Gilpin NW, Molina PE. Intermittent ethanol vapor exposure enhances ferroptosis following repeated mild traumatic brain injury in the frontal lobe of adolescent rats: potential role of mitochondrial dysregulation. American Physiology Summit, Long Beach, CA. April 2024.
104. Fitzpatrick-Schmidt T, Oral, E, Welsh D, Molina P, Ferguson T, **Edwards S**. Comprehensive Assessment of the Impact of Alcohol Use on Cognitive Deficits in People with HIV. American Physiological Summit. Long Beach, CA. April 2024.

105. Lee S, Monteagudo-Romero L, Klein JM, Edwards KN, Guidry JJ, Worthylake DK, **Edwards S**. Proteomic analysis of central amygdala systems regulated by the glucocorticoid receptor antagonist mifepristone in alcohol-dependent male and female rats. American Physiological Summit. Long Beach, CA. April 2024.
106. **Edwards S**, Devier DJ, Gasparini S, Gualdo TP, Mazumder H, Simon L, Tian X, Augustus-Wallace AC. The Importance of Interprofessional Education in Developing Collaboration-Ready Biomedical Scientists for Translational Research. American Physiological Summit. Long Beach, CA. April 2024.
107. Fitzpatrick-Schmidt T, Cucinello-Ragland J, Marathonitis S, Edwards K, Welsh D, Molina P, **Edwards S**. Evidence for analgesic efficacy of alcohol in reducing HIV- associated neuropathic pain in preclinical and clinical settings. NIH Pain Consortium Symposium. May 2024.
108. Chapa X, Vita S, **Edwards S**, Simon L, Gilpin NW, Molina PE. Increased ferroptotic signaling in the frontal lobe of adolescent rats: impact of intermittent ethanol vapor exposure after repeated mild traumatic brain injury Research Society on Alcohol Abstracts, Minneapolis, MN, June 2024.
109. Lee S, Monteagudo-Romero L, Klein JM, Edwards KN, Guidry JJ, Worthylake DK, **Edwards S**. Proteomic analysis of central amygdala systems regulated by mifepristone in alcohol-dependent male and female rats. Research Society on Alcohol Abstracts, June 2024.
110. Lee S, Fitzpatrick-Schmidt T, Cucinello-Ragland J, Brouillette A, Welsh D, Molina P, Ferguson T, **Edwards S**. Alcohol and cannabis use in relation to pain and negative affect in people with HIV. Research Society on Alcohol HIV Satellite. Minneapolis, MN. June 2024.
111. Fitzpatrick-Schmidt T, Cucinello-Ragland J, Marathonitis S, Edwards K, Welsh D, Molina P, **Edwards S**. Evidence for analgesic efficacy of alcohol in reducing HIV-associated neuropathic pain in preclinical and clinical settings. Research Society on Alcohol Abstracts, June 2024.
112. Chapa X, Vita S, Gilpin N, **Edwards S**, Simon L, Molina P. Increased ferroptotic signaling in the frontal lobe of adolescent rats: Impact of intermittent ethanol vapor exposure following repeated mild traumatic brain injury. Research Society on Alcohol Abstracts, June 2024.
113. Gualdo TP, Allen HB, Baudoin CD, Dicharry M, **Edwards S**, Held D, Straif-Bourgeois SC. An Alternative to the Kirkpatrick Model for Measuring Interprofessional Education Outcomes: The Learning Transfer Evaluation Model. Nexus Summit 2024 Abstracts.
114. Chapa X, Vita S, **Edwards S**, Simon L, Gilpin NW, Molina PE. Assessing the Impact of Alcohol on Traumatic Brain Injury: Focus on Mitochondrial Bioenergetics and Spatial Working Memory 24th Annual National Hispanic Science Network Conference, New Orleans, LA. 2024.
115. Fitzpatrick-Schmidt T, Cucinello-Ragland J, Marathonitis S, Edwards K, Welsh D, Molina P, **Edwards S**. Analgesic efficacy of alcohol in the context of HIV-associated pain. Winter Conference on Brain Research. Lake Tahoe, CA. January 2025.
116. Martin T, Fitzpatrick-Schmidt T, Davis E, Oral E, Ferguson T, Welsh D, Molina P, **Edwards S**. Sex-Specific Effects of Alcohol Dependence on Hippocampal Signaling in Male and Female Rats. Research Society on Alcohol Abstracts, June 2025.

117. Chapa X, Rodriguez-Graciani K, Salling M, **Edwards S**, Simon L, Molina P. Impact of Chronic Binge Alcohol and Simian Immunodeficiency Virus Infection on Prefrontal Cortex Mitochondrial Bioenergetics. Research Society on Alcohol Abstracts, June 2025.
118. Jarrell H, Coleman L, Simon L, Molina P, **Edwards S**, Salling M. Chronic Alcohol and SIV Interactions on the Neuronal Excitability of the Dorsal Anterior Cingulate Cortex of Male Rhesus Macaques. Research Society on Alcohol Abstracts, June 2025.
119. Lee S, Fitzpatrick-Schmidt T, Cucinello-Ragland J, Brouillette A, Welsh D, Molina P, Ferguson T, **Edwards S**. Alcohol and Cannabis Use in Relation to Pain and Negative Affect in People With HIV. Research Society on Alcohol Abstracts, June 2025.
120. Fitzpatrick-Schmidt T, Ferguson T, Oral E, Welsh D, Simon L, Molina P, **Edwards S**. Influence of Body Mass Index on Alcohol Use-Pain Interactions in People with HIV. RSA Research on Alcohol and HIV Satellite Meeting June 2025.

Invited Scientific Talks:

Local/State/Departmental Presentations

The University of Texas at Dallas, School of Behavioral and Brain Sciences
Regulation of Addictive Behavior by Dopamine Signaling
October 26, 2001

LSU Health New Orleans, Department of Pharmacology Seminar Series
Neurobiological Changes Associated with Dysregulated Motivational Systems in Drug Addiction
February 4, 2014

LSU Health New Orleans, Department of Physiology Seminar Series
Dysregulation of Glucocorticoid Receptor Signaling in Alcohol Dependence
May 20, 2014

LSU Health New Orleans, Alcohol and Drug Abuse Center of Excellence Retreat
Dysregulation of Glucocorticoid Receptor Signaling in Alcohol Dependence
May 23, 2014

LSU Health Shreveport, Department of Pharmacology, Toxicology, and Neuroscience
The Neurobiology of Dysregulated Motivational Systems in Drug Addiction
September 2, 2014

The University of New Orleans, Department of Biological Sciences
The Neurobiology of Dysregulated Motivational Systems in Drug Addiction
September 8, 2014

LSU Health New Orleans, Alcohol and Drug Abuse Center of Excellence Retreat
Combinations of Levomepromazine and Morphine for Analgesia in Recovered Addicts
May 22, 2015

LSU Health New Orleans, Department of Physiology Seminar Series
GluR1 Subunit Phosphorylation as Marker and Mediator of Drug Addiction
June 3, 2015

LSU Health New Orleans, Department of Cell Biology & Anatomy Seminar Series
Dysregulation of Glucocorticoid Receptor Signaling in Alcohol Dependence
September 14, 2015

LSU Health New Orleans, Neuroscience Center of Excellence Seminar Series
Dysregulation of Glucocorticoid Receptor Signaling in Alcohol Dependence
November 9, 2015

LSU Health New Orleans, Department of Physiology Seminar Series
Neurobiological Tolerance to Alcohol in the Nicotine-Dependent State
February 11, 2016

LSU Health New Orleans, Alcohol Abuse Comorbidities & Triggers for Addiction
Satellite Symposium to the 2016 Research Society on Alcoholism Meeting
Pain in the Context of Drug and Alcohol Addiction
June 25, 2016

LSU Health New Orleans, Department of Physiology Seminar Series
Central Neuroparmacological Mechanisms of Pain & Alcohol Dependence
May 18, 2017

Tulane University, Tulane Brain Institute and Neuroscience Program
Pain in the Context of Drug and Alcohol Addiction
November 1, 2017

LSU Health New Orleans, Neuroscience Center of Excellence Seminar Series
Pain in the Context of Drug and Alcohol Addiction
December 11, 2017

LSU Health New Orleans, Alcohol and Drug Abuse Center of Excellence Retreat
Neurobiology of Pain and Negative Reinforcement in Opioid Use Disorder
December 13, 2017

LSU Health New Orleans, Department of Physiology Seminar Series
Convergence of Central Pain and Stress Signaling in Addiction
May 18, 2018

LSU Health New Orleans, Neuroscience Center of Excellence Seminar Series
Convergence of Central Pain and Stress Signaling in Addiction
October 1, 2018

LSUHSC-New Orleans, Department of Pharmacology Seminar Series
Convergence of Central Pain and Stress Signaling in Addiction
February 4, 2020

LSUHSC-New Orleans, School of Medicine Dean's Research Seminar Series
Convergence of Central Pain and Stress Signaling in Addiction
March 11, 2020

LSU Health New Orleans, Department of Physiology Seminar Series
Intersecting Mechanisms and Treatment Opportunities for Pain and Alcohol Use Disorder
May 6, 2021

LSU Health New Orleans, Department of Physiology Seminar Series
Alcohol: The Cause of and Solution to Pain
July 14, 2022

Louisiana Primary Care Association 39th Annual Continuing Education Conference
Supporting Interprofessional Collaborative Practice/Team-Based Care
December 8, 2022

LSU Health New Orleans, School of Dentistry
Substance Use Disorders and Treatment Considerations for People with HIV
October 13, 2023

LSU Health New Orleans, Neuroscience Center of Excellence Seminar Series
Analgesic Efficacy of Alcohol in the Context of Chronic Pain: Preclinical and Clinical Insights
October 23, 2023

Empower Us, Gulf South Women's Health Forum, Tulane University School of Public Health
Alcohol-Related Health Problems: Are Women Catching Up with Men?
December 13, 2024

LSU Health New Orleans, School of Medicine Department of Medicine Grand Rounds
The Impact of Alcohol Use on Biomedical Comorbidity Risk
February 18, 2025

National Presentations

The University of Arizona at Tucson, Department of Pharmacology
The Dark Side of Drug Addiction
January 30, 2009

Research Society on Alcoholism Annual Meeting, San Diego, CA
V1b Vasopressin Receptor Antagonism Reduces Ethanol Drinking in Ethanol-Dependent Animals
June 23, 2009

National Hispanic Science Network on Drug Abuse Meeting, Miami, FL
Pain as a Negative Motivational State Underlying Drug Addiction
Symposium Title: Negative Motivational States and Addiction
August 24, 2011

UC-Santa Barbara, Department of Psychological and Brain Sciences
Pain as a Negative Motivational State Underlying Drug Addiction
December 16, 2011

Medical College of Wisconsin, Neuroscience Research Center
Neurobiological Changes Associated with Dysregulated Motivation Systems in Drug Addiction
January 3, 2013

University of Washington, Department of Psychology
Neurobiological Changes Associated with Dysregulated Motivational Systems in Drug Addiction
January 15, 2013

Winter Conference on Brain Research, Breckenridge, CO
Intersection of Pain and Negative Affect: Potential Role in Alcoholism
Symposium Title: Evidence for Perturbation of Reward Circuitry by Pain and Affective Disorders
January 31, 2013

University of Alabama-Birmingham, Department of Psychology
Neurobiological Changes Associated with Dysregulated Motivational Systems in Drug Addiction
February 28, 2013

LSU Health New Orleans, Department of Physiology
Neurobiological Changes Associated with Dysregulated Motivational Systems in Drug Addiction
March 6, 2013

Fifteenth International Winter Eicosanoid Conference
Eicosanoids and Alcohol Dependence
Symposium Title: Eicosanoids and Pain
March 12, 2014

Twentieth Annual Society on Neuroimmune Pharmacology Meeting
Reduction of Excessive Drinking in Alcohol-Dependent Rats via Soluble Epoxide Hydrolase Inhibition
Symposium Title: Inflammation: At the Core of Substance Abuse-Disease Spectrum Interaction
March 28, 2014

Texas Tech University HSC Translational Neuroscience and Pharmacology Lecture Series
Dysregulation of Glucocorticoid Receptor Signaling in Alcohol Dependence
September 1, 2015

Mt. Sinai School of Medicine, Department of Pharmacology & Systems Therapeutics
Glucocorticoid Receptor Signaling in Alcoholism
April 19, 2016

Winter Conference on Brain Research, Big Sky, MT
Neurobiology of Pain and Negative Reinforcement in Opioid Use Disorder
Symposium: The Opioid Epidemic: Moguls, Models and Molecules
January 31, 2017

American Pain Society Meeting, Pittsburgh, PA
Convergence of Central Pain and Stress Signaling in Addiction
Symposium: Neurobiological Mechanisms Mediating the Interaction of Chronic Pain and Alcohol Abuse
Symposium Organizer: Dr. Scott Edwards, LSU Health New Orleans
May 18, 2017

Experimental Biology Meeting
Symposium: Intersection of Central Pain and Reward Circuitry in CNS Disorders
Symposium Organizer: Dr. Scott Edwards, LSU Health New Orleans
April 22, 2018

Research Society on Alcoholism Meeting
Central Reinforcement Correlates of Pain Avoidance Behavior in Opioid vs. Alcohol Dependence
Symposium: Comorbidities Promoting Excessive Alcohol Drinking
June 17, 2018

NeuroHIV and Alcohol Abuse (NHAA) Meeting, Miami, Florida
Neuropathological Mechanisms of Alcohol, SIV, and Antiretroviral Therapy
October 31, 2018

American College of Neuropsychopharmacology (ACNP)
Central Reinforcement Correlates of Pain Avoidance Behavior in Opioid vs. Alcohol Dependence
Symposium Title: Neurobiology of Opioid Addiction: Hyperkatifeia and Negative Reinforcement as a Driving Force
December 9, 2018

18th Annual American Society of Regional Anesthesia and Pain Medicine (ASRA) Meeting
Why Alcohol Use is so Common in Chronic Pain Patients: A Basic Science Perspective
November 14, 2019

Research Society on Alcoholism Meeting (Virtual)
Neurobiology of Enhanced Pain Sensitivity in Alcohol Use Disorder
June 21, 2021

Virginia Commonwealth University Emswiler Interprofessional Symposium
Assessing Outcomes of an Interprofessional Education Longitudinal Curriculum
February 5, 2022

American Physiological Society Summit, Long Beach, CA
Co-Moderator, Game Changer Session
Rewiring the Brain to Treat Depression: Psychedelics and Novel Therapies
April 22, 2023

Research Society on Alcoholism Alcohol Research Involving PWH Satellite Meeting, Bellevue, WA
Alcohol Use in Association with Pain and Negative Affect in People with HIV
June 24, 2023

Research Society on Alcoholism, Bellevue, WA
Symposium Chair: Intersection of Pain-Related Negative Affect and Alcohol Use Disorder Risk
June 26, 2023

LSU Health New Orleans Alcohol and Drug Abuse Center of Excellence (ADACE) Retreat
The Effects of Chronic Pain on Brain and Body
Conference Organizer
December 13, 2023

Winter Conference on Brain Research, Breckenridge, CO
Symposium Chair: Sex Differences in Pain and Negative Affect and Implications for Alcohol and Opioid Use Disorder Risk
Symposium Talk: Analgesic Efficacy of Alcohol in the Context of Chronic Pain
January 30, 2024

American Physiological Society Summit, Long Beach, CA
The Importance of Interprofessional Education in Developing Collaboration-Ready Biomedical Scientists for Translational Research
April 6, 2024

University of Virginia Brain Symposium, Charlottesville, VA
Intersection of Pain and Alcohol Use Disorder Risk
May 22, 2024

Research Society on Alcohol Conference, HIV Satellite Minneapolis, MN
Preclinical Research on Pain & Alcohol Interactions
June 22, 2024

Research Society on Alcohol Conference, Minneapolis, MN
Pain and Negative Affect in Relation to Alcohol Use Disorder Risk in People with HIV
June 25, 2024

American Physiological Society Summit, Baltimore, MD
Symposium Chair: Sex Differences in the Genesis and Treatment of Psychiatric and Substance Use Disorders
April 26, 2025

College on the Problems of Drug Dependence (CPDD) Meeting, New Orleans, LA
Navigating the Relationship between Researcher and Research Veterinarian
June 16, 2025

Research Society on Alcohol Conference, New Orleans, LA
Influence of Body Mass Index on Alcohol Use-Pain Interactions in People With HIV
June 23, 2025

International Presentations

Second International Congress on Alcoholism and Stress, Volterra (Pisa), Italy
Development of Allodynia during Ethanol Dependence in Rats and Mice
Symposium Title: Alcohol Gets on my Nerves
May 6, 2011

Third International Congress on Alcoholism and Stress, Volterra (Pisa), Italy
Functional Recruitment of Amygdala Glucocorticoid Receptor Signaling in Alcohol-Dependent Rats
Symposium Title: Central vs. Systemic Stress Systems in Alcohol Dependence
Symposium Organizer: Dr. Scott Edwards, LSU Health New Orleans
May 6, 2014

May 8, 2014

Third International Congress on Alcoholism and Stress, Volterra (Pisa), Italy

Excessive Alcohol Drinking in the Context of Stress Sensitization

Symposium Title: Young Investigator Award Symposium

May 9, 2017

Fourth International Congress on Alcoholism and Stress, Volterra (Pisa), Italy

Convergence of Central Pain and Stress Signaling in Alcohol Dependence

Symposium Title: Chronic Pain and Alcohol Dependence

September 10, 2018

19th Congress of the International Society for Biomedical Research on Alcoholism, Kyoto, Japan

Symposium Title: *Alcohol & Opioids: Intersecting Mechanisms and Treatment Opportunities for Pain Management and Addiction*

Symposium Organizer & Chair: Dr. Scott Edwards, LSU Health New Orleans

19th Congress of the International Society for Biomedical Research on Alcoholism, Kyoto, Japan

Neuropathological Mechanisms of Alcohol, SIV, and Antiretroviral Therapy: Enhanced Susceptibility of the Frontal Cortex in Rhesus Macaques

Symposium Title: *HIV and Alcohol Co-morbidities: Pathogenesis and Treatment*

Symposium Organizer & Chair: Dr. Patricia Molina, LSU Health New Orleans

September 12, 2018

2nd PanAmerican Congress of Physiological Sciences, Havana, Cuba

Glucocorticoid Receptor Regulation of Alcohol Dependence-Related Behaviors

May 30, 2019

19th Annual American Society of Regional Anesthesia and Pain Medicine (ASRA) Meeting

Why Alcohol Use is so Common in Chronic Pain Patients: A Basic Science Perspective

September 19, 2020 (International E-Congress)

21st Congress of the International Society for Biomedical Research on Alcoholism, Krakow, Poland

Symposium Title: *Intersection of Pain and Alcohol Use Disorder Risk*

Analgesic Efficacy of Alcohol in the Context of Chronic Pain

Symposium Organizer, Chair, & Speaker: Dr. Scott Edwards, LSU Health New Orleans

September 18, 2022

Fifth International Congress on Alcoholism and Stress, Volterra (Pisa), Italy

Vasopressin and Glucocorticoid Regulation of Alcohol Dependence-Related Behaviors

Symposium Title: Neuroendocrine Mechanisms of Stress and Alcohol Use Disorder

Symposium Organizers: Dr. Scott Edwards & Dr. Patricia Molina, LSUHSC-New Orleans

May 18, 2023

International Society of Psychoneuroendocrinology (ISPNE) Conference, New Orleans, LA

Glucocorticoid Regulation of Alcohol Dependence-Related Behaviors

September 3-5, 2025

Continuing Education Presentations

LSUHSC 4th Annual Quality Improvement Forum

First-Year Student Attitudes Towards a Case-Based Interprofessional Education Experience

Organizer: LSUHSC Office of Medical Education

June 2, 2016

LSUHSC Continuing Dental Education

Event Title: Addressing Opioid Abuse and Addiction in the Dental Office

Neuroscience of Opioid Use Disorder/Addiction & Risk Factors and Screening for Opioid Use Disorder

Organizer: Robert M. Leaman, CDE Director

June 22, 2018

LSUHSC Continuing Nursing Education

Event Title: Addressing Opioid Abuse and Addiction Among APRN Providers

Neuroscience of Opioid Use Disorder/Addiction & Risk Factors and Screening for Opioid Use Disorder

Organizer: Clair Millet, CNE Director

December 14, 2018

Grant Review Committees:

2014	NIH CSR Early Career Reviewer Program
2014	Medical Research Council (UK) Grant Reviewer
2015	NIAAA Study Section ZAA1 DD (54) Fellowships Panel, Ad hoc
	NIAAA Study Section ZAA1 DD (04) Fellowships Panel, Ad hoc
2016	NIAAA Study Section ZAA1 JJ (01) Fellowships Panel, Ad hoc
	NIAAA Study Section ZAA1 DD (04) Fellowships Panel, Ad hoc
2016	RCMI/BUILD/LCRC External Reviewer (Xavier University of Louisiana)
2017	Fund for Scientific Research-FNRS (Belgium) Grant Reviewer
	NIAAA Study Section ZAA1 JJ (01) Fellowships Panel, Ad hoc
	CSR PMDA (Pathophysiological Basis of Mental Disorders and Addictions)
2018	NIAAA Study Section ZAA1 GG (32) Fellowships Panel, Ad hoc
2019	CSR MCDN (Molecular, Cellular, and Developmental Neuroscience)
2020	NIAAA Study Section ZAA1 GG (32) Fellowships Panel, Ad hoc
	NIAAA Study Section AA-4, Ad hoc
2021	NIAAA Study Section ZAA1 GG (32) Fellowships Panel, Ad hoc
	NIAAA Study Section AA-4, Ad hoc
	Fund for Scientific Research-FNRS (Belgium) Grant Reviewer
	NIH Behavioral Neuroscience Fellowship Panel (F02A)
2022	NIAAA Study Section ZAA1 GG (32) Fellowships Panel, Ad hoc
	NIH Behavioral Neuroscience Fellowship Panel (F02A)
2023	NIAAA Study Section ZAA1 GG (32) Fellowships Panel, Ad hoc
	NIH Behavioral Neuroscience Fellowship Panel (F02A)
	Fund for Scientific Research-FNRS (Belgium) Grant Reviewer
2024	NIAAA Study Section ZAA1 GG (32) Fellowships Panel, Ad hoc
	Fund for Scientific Research-FNRS (Belgium) Grant Reviewer
	NIDA Targeting Inflammasomes in HIV and Substance Use ZDA1 SXC-N (O1) R
	NIA MSTEM Research in Undergraduate Education ZAG1 ZIJ-9 (J1)
2025	NIAAA Study Section ZAA1 GG (32) Fellowships Panel, Ad hoc
	NIH Special Emphasis Panel, Addiction Risks & Mechanisms ZRG1 BP-J (93) S

Editorial Posts and Activities:

Editorial Board

2014-Present	Editorial Board, <i>Pharmacology, Biochemistry, and Behavior</i>
2016-2017	Guest Editor, <i>Addiction Issue, Current Opinion in Behavioral Sciences</i>
2018-Present	Drug Abuse & Addiction Section Editor, <i>Pharmacology, Biochemistry, and Behavior</i>

Reviewer

2007-Present	<i>Pharmacology, Biochemistry, and Behavior</i>
2009-Present	<i>Neuropharmacology; Neuroscience Letters</i>
2012-Present	<i>PLoS ONE</i>
2013-Present	<i>Pain Research & Management; Behavioural Processes; Frontiers in Psychiatry; Frontiers in Integrative Neuroscience</i>
2014-Present	<i>Neuroreport; Addiction Biology; Behavioral Brain Research; Neuroscience and Biobehavioral Reviews</i>
2015-Present	<i>Journal of Neurophysiology; Neuropeptides; Stress</i>
2016-Present	<i>Neuroscience; Alcoholism: Clinical & Experimental Research; Pain</i>
2017-Present	<i>Journal of Pain Research; Psychopharmacology; Biological Psychiatry; Brain, Behavior, and Immunity</i>
2018-Present	<i>Molecular Psychiatry, Trends in Pharmacological Sciences</i>
2021-Present	<i>Alcohol Research: Current Reviews, Journal of Neuroinflammation, Journal of Interprofessional Education & Practice</i>
2022-Present	<i>Journal of Drug Education, Neurobiology of Pain, Addiction Neuroscience, Advances in Physiology Education, Biology of Sex Differences</i>

SERVICE AND ADMINISTRATION

University/Institutional Service:

2009-2013	The Scripps Research Institute (TSRI) Council of Scientific Editors
2012-2013	TSRI Society of Fellows Travel Award Selection Committee
2013-2020	LSUHSC Graduate Research Day Judge
2014-2020	LSUHSC Medical Student Research Day Judge
2014	LSUHSC Perspectives in Alcohol Research (PAR) Course Facilitator
2014-2018	LSUHSC Department of Physiology Works-in-Progress Facilitator
2014-Present	LSUHSC School of Graduate Studies (SGS) Graduate Advisory Council (GAC)
2014-Present	Department of Physiology Faculty Search Committee (Chair, 2016-2021)
2015-Present	Department of Physiology Graduate Program Director
2016-Present	Department of Physiology Postdoc Development Committee
2016-Present	LSUHSC School of Medicine Internal Funding Review Panel
2017-2024	LSUHSC NIAAA T35 Internal Advisory Committee
2018-2019	LSUHSC Classroom Polling Subcommittee
2018-2021	LSUHSC SGS Student Affairs Committee
2018-2021	Chair, SGS Recruitment Committee
2019-2021	LSUHSC Institutional Animal Care and Use Committee (IACUC)
2021-2023	Member and Co-Chair, SGS Curriculum Committee
2023-2024	LSUHSC SGS Mentoring Committee
2023-2024	LSUHSC SGS Admissions Committee
2024-Present	LSUHSC Standardized Patient Working Group
2024-Present	LSUHSC Hunger-Free Campus Taskforce

National Society Service:

2013-2016	RSA Animal Research and Ethics Committee
2015	RSA Conference Program Committee
2017-2019	APS Conference Committee
2017-2019	APS Central Nervous System Section Steering Committee
2021-2023	APS Physiology Educators Committee
2022-2023	RSA Nominations Committee

Community Service Activities:

2014-Present	Greater New Orleans Science and Engineering Fair (GNOSEF) Judge
2016-Present	Board of Directors, GNOSEF
2017-2023	Clinical Advisory Board, Avanos Medical
2018-Present	PI, LSUHSC CARC P60 Outreach and Information Dissemination Core