

# CURRICULUM VITAE Scott Edwards PhD

Current Title: Associate Professor with Tenure

Business Address: Louisiana State University Health Sciences Center

Department of Physiology

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Birthdate and Birthplace: December 28, 1976, Abilene, TX

**Spouse:** Kimberly Edwards

Citizenship: United States of America

**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:

2019-Present Associate Professor with Tenure

Associate Director, NIAAA T32 Training Program

Department of Physiology

LSU Health Sciences Center-New Orleans

2013-Present Tenure-Track Assistant Professor

Department of Physiology

LSU Health Sciences Center-New Orleans

2013-Present Alcohol and Drug Abuse Center of Excellence

LSU Health Sciences Center-New Orleans

2014-Present Neuroscience Center of Excellence

LSU Health Sciences Center-New Orleans

## **Membership in Professional Organizations:**

1999-Present	Member, Society for Neuroscience (SFN)
2009-Present	Member, Research Society on Alcoholism (RSA)
2013-Present	RSA Animal Research and Ethics Committee
2014-Present	Member, American Physiological Society (APS)
2014-2019	Member, American Pain Society
2015	RSA Conference Program Committee
2017-2019	APS Conference Committee
2017-2019	APS Central Nervous System Section Steering Committee
2018-Present	Member, International Society for Biomedical Research on Alcoholism (ISBRA)
2018-Present	Member, Association for Women in Science (AWIS)
2021-2023	APS Physiology Educators Committee

## **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
1999	Microscopy Society of America Undergraduate Research Fellowship
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 <sup>th</sup> 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

#### 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 key 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 main endocrine teaching responsibilities occur within the School of Nursing (*Nursing Physiology* and *Nursing Pathophysiology*), School of Allied Health (*Biological Systems*), and School of Graduate Studies (*Biological Systems* and *Endocrinology*). I have also contributed to teaching in the neurosciences through my joint appointment with the Neuroscience Center of Excellence and with the creation of a new special topics course entitled *Physiology of Neuronal Circuits*. Finally, I have contributed to the teaching mission of the Interdisciplinary Graduate Program of the School of Graduate Studies via the *Ethics in Biomedical Sciences* and *Experimental Design & Analysis* courses. Lecture hours and teaching evaluation scores are listed in the table below:

		Summary of Teaching Responsi	bilities (Course Director*)		
Year	LSUHSC School	Course Title	Course Number	Lecture Hours	Evaluations (Scale 1-4)
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	PHYSIO 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	PHYSIO 3410	5	3.4-3.5
	SON	Nursing Physiology	PHYSIO 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	2	
	SGS	Physiology of Neuronal Circuits*	PHYSIO 289	7	
	SOD	General and Oral Physiology	DHY 3202	1	
	SOD	Applied Oral Medicine	DENT 3116	2	
	SON	Nursing Pathophysiology	PHYSIO 3410	3	3.4-3.8
	SON	Nursing Physiology	PHYSIO 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	PHYSIO 3410	3	3.6
	SON	Nursing Physiology	PHYSIO 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	
	SON	Nursing Pathophysiology	PHYSIO 3410	3	3.5-3.6
	SON	Nursing Physiology	PHYSIO 2410	12	3.5-3.6
2020	SGS/SAH	Biological Systems*	INTER 131/132	7	3.7-3.9
	SGS	Experimental Design & Analysis	INTER 143	3	
	SON	Nursing Pathophysiology	PHYSIO 3410	3	3.6-3.8
	SON	Nursing Physiology	PHYSIO 2410	12	3.4-3.6

### Undergraduate, Medical, or 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)*
2020	Sarah McQuirter (Tulane University) <sup>*</sup>

\*2020 Newcomb-Tulane College Research Scholarship

#### Post-Baccalaureate Students

2019-2020	Chelsea Callicoatte	(LSUHSC-NO PREP Scholar)
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2020-2021 Roshaun Mitchell-Cleveland (LSUHSC-NO PREP Scholar)

#### **Medical Students**

2015-2016	Brooke Towne (LSUHSC School of Medicine)
2016	Maggie Coleman (LSUHSC School of Medicine)
2019	Bradley Trimble (LSUHSC School of Medicine)

#### **Graduate Students**

Graduate Students	
2014-2019	Adrienne McGinn (LSUHSC-NO Physiology) - Dissertation Advisor
	*2020 School of Graduate Studies Chancellor's Award
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
2018-Present	Jessica Cucinello (LSUHSC-NO Physiology) - Dissertation Advisor
2019-Present	Laura Monteagudo Romero (LSUHSC-NO Physiology) - Dissertation Advisor
2020-Present	Jessica Cucinello (LSUHSC-NO Physiology) - NIH/NIAAA F31 Sponsor
2020-Present	Muhammad Faroog (LSUHSC-NO Cell Biology) - NIH/NIAAA F30 Co-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)
2016-2018	Dissertation Committee - Elia El Hajj (LSUHSC-NO Physiology)
2015-2019	Dissertation Committee - Alyssa Fournett (LSUHSC-NO Pharmacology)
2015-2019	Dissertation Committee - Van Ninh (LSUHSC-NO Physiology)
2018-2019	Dissertation Committee - Laura Erwin (LSUHSC-NO Pharmacology)
2018-2020	Dissertation Committee - Zachary Stielper (LSUHSC-NO Physiology)
2017-Present	Dissertation Committee - Ariel Amgott-Kwan (Tulane Neuroscience)
2019-Present	Dissertation Committee - Brittany Foret (LSUHSC-NO Physiology)
2019-Present	Dissertation Committee - Muhammad Farooq (LSUHSC-NO Cell Biology)
2019-Present	Dissertation Committee - Taylor Templeton (LSUHSC-NO Physiology)
2020-Present	Dissertation Committee - Eleanor Holmgren (LSUHSC-NO Cell Biology)
2020-Present	Dissertation Committee - Nicholas Fried (LSUHSC-NO Physiology)
2020-Present	Dissertation Committee - Hannah Kramer (LSUHSC-NO Pharmacology)

#### Post-Doctoral or Post-Residency Fellows Trained:

2014-2015	Dr. Dana LeBlanc (LSUHSC-NO Pediatrics/Hematology/Oncology Fellow)
2015-2020	Dr. Amanda Pahng (LSUHSC-NO Physiology)
2019-2020	Dr. Elizabeth Delery (LSUHSC-NO Physiology)

#### RESEARCH AND SCHOLARSHIP

#### **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.

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.

09/01/2012-08/31/2018\* (\*No Cost Extension)

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 examines the mechanistic link between excessive drinking and hyperalgesia in alcohol-dependent animals.

#### 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 will generate 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.

#### **Currently Funded Grants and Contracts:**

#### 01/01/2020-11/30/2024

LSUHSC Comprehensive Alcohol-HIV/AIDS Research Center

National Institute of Alcoholism and Alcohol Abuse (P60AA009803)

Edwards (PI of RC3 and Information Dissemination Core) \$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.

#### 01/01/2020-12/31/2024

Inspiring Diversity to Explore the Brain in the 21st Century: The NIHNDS/LSUHSC- NO,

Undergraduate Diversity in Neuroscience Research Experiences

National Institute of Neurological Disorders and Stroke (R25NS114309)

Augustus-Wallace, Edwards, Farris, Molina, Tsien MPI \$829,576

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

#### 09/15/2017-09/14/2020 (NCE)

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

National Institute on Alcohol Abuse and Alcoholism (R21AA025736)

Edwards (PI) \$137,500/yr.

This grant examines 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 Basolateral

Amygdala National Institute on Alcohol Abuse and Alcoholism (R01AA026531)

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

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

#### 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-I) \$250,000/yr.

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

#### 07/01/2018-06/30/2023

Vasopressin Signaling in Pain and Alcohol Dependence

National Institute on Alcohol Abuse and Alcoholism (R01AA025996)

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

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

#### 09/28/2018-09/27/2023

Preclinical Medications Development Screening in Dependent, Affect and Pain Models of Alcoholism National Institute on Child Health and Human Development (NIH-NICHD-2018-05) Edwards (PI) \$1,293,742 over five years

#### **Grants and Contracts Pending:**

#### 09/01/2020-08/31/2024

Endocannabinoid Regulation of Emerging Pain Symptoms Following Traumatic Brain Injury Department of Defense GRANT12978369

Edwards (PI) \$892,249

This grant will determine the neurobiological mechanisms whereby traumatic brain injury facilitates the chronification of pain.

#### 09/01/2019-08/31/2023

Integrative Investigation of the Inflammasome in the Neuropathology of Chronic Opioid Use and HIV R01DA050539

Molina, Edwards, Simon (MPI) \$1,562,845

This grant will examine the effects of chronic opioid administration and a western diet on brain regional activation of inflammasomes associated with structural, behavioral, and functional neuropathological alterations in SIV-infected rhesus macaques.

#### Journal Publications:

- 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. <u>Alcoholism: Clinical and Experimental</u> <u>Research</u> 2002 26(2): 173-80.
- 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. <u>Annals of the New York Academy of Sciences</u> 2003 1003: 372-4.
- 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.
- 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. <u>European Journal of Neuroscience</u> 2005 21: 2817-2824.

- 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. <u>The Journal of Neuroscience</u> 2005 25: 5553-5562.
- 6. **Edwards S**, Self DW. Monogamy: Dopamine ties the knot. <u>Nature Neuroscience</u> 2006 9(1): 7-8.
- 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.
- 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.
- 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. <u>Nature Neuroscience 2007 10(8): 1029-1037</u>.
- 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. <u>Biological Psychiatry</u> 2009 65(8): 696-701.
- 11. **Edwards S**, Graham DL, Whisler KN, Self DW. Phosphorylation of GluR1, ERK, and CREB following spontaneous withdrawal from chronic heroin self-administration. <u>Synapse</u> 2009 63(3): 224-235.
- 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. <u>The Journal of Neuroscience</u> 2009 29(15): 4846-4857.
- 13. Enwright JF, Wald M, Paddock M, Hoffman E, Arey R, **Edwards S**, Spencer S, Nestler EJ, McClung CA. ΔFosB indirectly regulates CCK promoter activity. <u>Brain Research</u> 2010 1329: 10-20.
- 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. <u>Proceedings of the National Academy of Sciences U.S.A.</u> 2010 107(24): 11104-11109.
- 15. **Edwards S**, Koob GF. The neurobiology of dysregulated motivational systems in drug addiction. Future Neurology 2010 5(3): 393-410.
- 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. <u>Journal of Neurochemistry</u> 2010 115(1): 112-122.
- 17. **Edwards S**, Whisler KN, Bachtell RK, Guzman D, Self DW. Emergence of context-associated GluR1 and ERK phosphorylation in the nucleus accumbens core during withdrawal from cocaine self-administration. <u>Addiction Biology</u> 2011 16(3): 450-7.

- 18. Choi KH, Edwards S, Graham DL, Han MH, Larson EB, Whisler KN, Simmons D, Rahman Z, Monteggia LM, Eisch AJ, Neve RL, Nestler EJ, Self DW. Reinforcement-related regulation of AMPA glutamate receptor subunits in the ventral tegmental area enhances cocaine reinforcement. The Journal of Neuroscience 2011 31(21): 7927-7937.
- 19. Stowe GN, Schlosberg JE, Vendruscolo LF, **Edwards S**, Misra KK, Schulteis G, Mayorov AV, Zakhari JS, Koob GF, Janda KD. Developing a vaccine against multiple psychoactive targets: a case study of heroin. <u>Current Drug Targets-CNS and Neurological Disorders</u> 2011 10(8): 865-875.
- 20. Stowe GN, Vendruscolo LF, **Edwards S**, Schlosburg JE, Misra KK, Schulteis G, Mayorov AV, Zakhari JS, Koob GF, Janda KD. A vaccine strategy that induces protective immunity against heroin. Journal of Medicinal Chemistry 2011 54(14): 5195-204.
- 21. **Edwards S**, Guerrero M, Ghoneim O, Roberts E, Koob GF. Evidence that vasopressin V1b receptors mediate the transition to excessive drinking in ethanol-dependent rats. <u>Addiction</u> Biology 2012 17(1): 76-85.
- 22. **Edwards S**, Vendruscolo LF, Schlosburg JE, Misra KK, Wee S, Park PE, Schulteis G, Koob GF. Development of mechanical hypersensitivity during ethanol dependence and extended access to heroin self-administration: alleviation by CRF1 receptor antagonism. <u>Neuropharmacology</u> 2012 62(2): 1142-1151.
- 23. Recinto P, Samant ARH, Chavez G, Kim A, Yuan CJ, Soleiman M, **Edwards S**, George O, Grant Y, Wee S, Koob GF, Mandyam CD. Levels of neural progenitors in the hippocampus predict memory impairments and relapse to drug seeking as a function of excessive methamphetamine self-administration. Neuropsychopharmacology 2012 37(5): 1275-1287.
- 24. Egli M, Koob GF, **Edwards S**. Alcohol dependence as a chronic pain disorder. <u>Neuroscience and Biobehavioral Reviews</u> 2012 36: 2179-2192.
- 25. Barbier E, Vendruscolo LF, Schlosburg JE, **Edwards S**, Park PE, Misra KK, Cheng K, Rice K, Schank J, Schulteis G, Koob GF, Heilig M. The NK1 receptor antagonist L822429 reduces heroin reinforcement. Neuropsychopharmacology 2013 38(6): 976-984.
- 26. Schlosburg JE, Vendruscolo LF, Bremer P, Lockner JW, Nunes AA, Stowe GN, **Edwards S,** Janda KD, Koob GF. Heroin vaccine blocks relapse and compulsive intake of heroin. <u>Proceedings of the National Academy of Sciences U.S.A.</u> 2013 110(22): 9036-41.
- 27. Park PE, Vendruscolo LF, Schlosburg JE, **Edwards S**, Schulteis G, Koob GF. Corticotropin-releasing factor (CRF) and alpha2-adrenergic receptors mediate heroin withdrawal-potentiated startle in rats. <u>The International Journal of Neuropsychopharmacology</u> 2013 16: 1867-75.
- 28. Kallupi M, Wee S, **Edwards S**, Whitfield TW Jr, Oleata CS, Luu G, Schmeichel BE, Koob GF, Roberto M. Kappa opioid receptor-mediated dysregulation of gamma-aminobutyric acidergic transmission in the central amygdala in cocaine addiction. <u>Biological Psychiatry</u> 2013 74(7): 520-528.

- 29. **Edwards S**, Baynes BB, Carmichael C, Zamora-Martinez ER, Koob GF, Gilpin NW. Traumatic stress reactivity promotes excessive alcohol drinking and alters the balance of prefrontal cortexamygdala activity. Translational Psychiatry 2013 3:e296.
- 30. Apkarian AV, Neugebauer V, Koob GF, **Edwards S**, Levine J, Egli M, Regunathan S. Neural mechanisms of pain and alcohol dependence. <u>Pharmacology, Biochemistry, and Behavior</u> 2013 112: 34-41.
- 31. **Edwards S**, Koob GF. Escalation of drug self-administration as a hallmark of addiction liability. Behavioural Pharmacology 2013 24 (5-6): 356-365.
- 32. Koob GF, Buck C, Cohen A, **Edwards S**, Park PE, Schlosburg JE, Schmeichel BE, Vendruscolo LF, Wade CL, Whitfield TW Jr, George O. Addiction as a stress surfeit disorder. Neuropharmacology 2014 76: 370-82.
- 33. Zamora-Martinez ER, **Edwards S.** Neuronal extracellular signal-regulated kinase (ERK) signaling as marker and mediator of alcohol and opioid dependence. <u>Frontiers in Integrative Neuroscience</u> 2014 8:24.
- 34. Mazei-Robison MS, Appasani R, **Edwards S**, Wee S, Taylor SR, Picciotto MR, Koob GF, Nestler EJ. Self-administration of ethanol, cocaine, or nicotine does not decrease the soma size of ventral tegmental area dopamine neurons. <u>PLoS One</u> 2014 9(4):e95962.
- 35. Whitaker AM, Gilpin NW, **Edwards S**. Animal models of post-traumatic stress disorder and recent neurobiological insights. <u>Behavioural Pharmacology</u> 2014 25:398-409.
- 36. English R, **Edwards S**, Armstrong M, McDonough K, Molina P. Alcohol use disorder: An interprofessional case-based exercise. MedEdPORTAL; 2014. Available from: <a href="https://www.mededportal.org/publication/9916">www.mededportal.org/publication/9916</a>
- 37. Cohen A, Treweek J, **Edwards S**, Molini R, Schulteis G, Koob GF, George O. Extended access to nicotine leads to a CRF1 receptor dependent increase in anxiety-like behavior and hyperalgesia in rats. <u>Addiction Biology</u> 2015 20:56-68.
- 38. Park PE, Schlosburg JE, Vendruscolo LF, Schulteis G, **Edwards S**, Koob GF. Chronic CRF1 receptor blockade reduces heroin intake escalation and dependence-induced hyperalgesia. <u>Addiction Biology</u> 2015 20:275-284.
- 39. Whitfield TW Jr, Schlosburg JE, Wee S, Gould A, George O, Grant Y, Zamora-Martinez ER, Crawford E, **Edwards S**, Vendruscolo LF, Koob GF. Kappa opioid receptors in the nucleus accumbens shell mediate escalation of methamphetamine intake. <u>The Journal of Neuroscience</u> 2015 35:4296-4305.
- 40. Helms CM, Anderson SM, Bell RL, Bennett AJ, Davies DL, Kosten TA, Leeman R, Panicker S, Platt DM, Weiner JL, **Edwards S**. The importance of animals in advancing research on alcohol use disorders. <u>Alcoholism: Clinical and Experimental Research</u> 2015 39:575-578.
- 41. Kim A, Zamora-Martinez ER, **Edwards S**, Mandyam CD. Structural reorganization of pyramidal neurons in the medial prefrontal cortex of alcohol-dependent rats is associated with altered glial plasticity. <u>Brain Structure and Function</u> 2015 220:1705-1720.

- 42. LeBlanc D, McGinn MA, Itoga CA, **Edwards S**. The affective dimension of pain as a risk factor for drug and alcohol addiction. <u>Alcohol</u> 2015 49:803-809.
- 43. **Edwards S**, Little HJ, Richardson HR, Vendruscolo LF. Divergent regulation of distinct glucocorticoid systems in alcohol dependence. <u>Alcohol</u> 2015 49:811-816.
- 44. Vendruscolo LF, Estey D, Goodell V, Macshane LG, Logrip ML, Schlosburg JE, McGinn MA, Zamora-Martinez ER, Belanoff JK, Hunt HJ, Sanna PP, George O, Koob GF, **Edwards S**, Mason BJ. Glucocorticoid receptor antagonism decreases alcohol seeking in alcohol-dependent individuals. <u>Journal of Clinical Investigation</u> 2015 125:3193-3197.
- 45. **Edwards S**, Molina PE, McDonough KH, Mercante DE, Gunaldo TP. Integrating an interprofessional education experience into a human physiology course. <u>The Journal of Physician Assistant Education</u> 2016 28:146-148.
- 46. 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. <u>Stress</u> 2016 19:69-77.
- 47. Somkuwar SS, Staples MC, Fannon M, Zamora-Martinez ER, Kim A, Navarro AI, **Edwards S**, Mandyam CD. Alcohol dependence-induced regulation of the proliferation and survival of adult brain progenitors is associated with altered BDNF-TrkB signaling. <u>Brain Structure and Function</u> 2016 221:4319-4335.
- 48. McGinn MA, Paulsen RI, Itoga CA, Farooq MA, Reppel JE, Edwards KN, Whitaker AM, Gilpin NW, **Edwards S**. Withdrawal from chronic nicotine exposure produces region-specific tolerance to alcohol-stimulated GluA1 phosphorylation. <u>Alcoholism: Clinical & Experimental Research</u> 2016 40: 2537-2547.
- 49. Mayeux J, Katz P, **Edwards S**, Middleton J, Molina P. Inhibition of endocannabinoid degradation improves outcomes from mild traumatic brain injury: a mechanistic role for synaptic hyperexcitability. <u>Journal of Neurotrauma</u> 2017 34: 436-443.
- 50. **Edwards S**, Ersche KD. Editorial overview: The diverse facets and emerging potential of addiction research. <u>Current Opinion in Behavioral Sciences</u> 2017 13:4-5.
- 51. Pahng AR, McGinn MA, Paulsen RI, **Edwards S**. The prefrontal cortex as a critical gate of negative affect in alcohol use disorder. <u>Current Opinion in Behavioral Sciences</u> 2017 13:139-143.
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#### **Book Chapters:**

- Edwards S, Koob GF. Experimental psychiatric illness and drug abuse models: from human to animal – an overview. In: Kobeissy FH (Ed.) <u>Psychiatric Disorders: Methods and Protocols</u> (series title: <u>Methods in Molecular Biology</u>) 2012 829: 31-48. Humana Press: New York.
- 2. Katz PS, **Edwards S**, Molina PE. Cannabinoids. In: Peterson PK and Toborek M (Eds.) Neuroinflammation and Neurodegeneration. 2014 XVII: 487-510. Springer: New York.
- 3. **Edwards S**. Reinforcement principles for addiction medicine; from recreational drug use to psychiatric disorder. In: Ekhtiari H and Paulus M (Eds.) <u>Progress in Brain Research</u> 2016 223: 77-89. Elsevier: Amsterdam.
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- 27. Kallupi M, Wee S, **Edwards S**, Whitfield T, Oleata CS, Luu G, Koob GF, Roberto M. Role of the kappa opioid system in the modulation of CeA GABAergic transmission in rats following extended access to cocaine self-administration. Program No. 872.10. <u>2012 Neuroscience Meeting Planner</u>. New Orleans, LA: Society for Neuroscience, 2012. Online.
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- 29. Vendruscolo LF, **Edwards S**, MacShane LG, Logrip ML, Schlosburg JE, Zamora-Martinez ER, Whitfield Jr TW, Sanna PP, Koob GF. Glucocorticoid receptors in the central amygdala mediate compulsive-like alcohol drinking. Program No. 349.18. <u>2013 Neuroscience Meeting Planner</u>. San Diego, CA: Society for Neuroscience, 2013. Online.
- 30. You IJ, Wright SR, **Edwards S**, Mandyam CD, Koob GF, Wee S. A 5-HT1A receptor-mediated mechanism in addiction-like cocaine self-administration behavior in rats. Program No. 350.18. <a href="https://example.com/2013/neuroscience/">2013 Neuroscience Meeting Planner</a>. San Diego, CA: Society for Neuroscience, 2013. Online.
- 31. Mandyam CD, Kim A, Zamora-Martinez ER, **Edwards S**. Morphological reorganization of rat hippocampal neurons in alcohol dependence. Program No. 705.14. <u>2013 Neuroscience Meeting Planner</u>. San Diego, CA: Society for Neuroscience, 2013. Online.
- 32. Kallupi M, **Edwards S**, Wee S, Whitfield Jr. TW, Oleata CS, Luu G, Schmeichel BE, Koob GF, Roberto M. Kappa opioid receptor-mediated dysregulation of GABAergic transmission in the central amygdala in cocaine addiction. Program No. 820.16. <u>2013 Neuroscience Meeting Planner</u>. San Diego, CA: Society for Neuroscience, 2013. Online.

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- 35. **Edwards S**. Excessive alcohol drinking in the context of sensitized stress signaling. Program No. S47. Volterra Alcoholism and Stress Conference Abstracts. <u>Alcohol</u> 48 (2014) 159-178.
- 36. **Edwards S**, Zamora-Martinez ER, Schlosburg JE, Logrip ML, Koob GF, Vendruscolo LF. Functional recruitment of central amygdala glucocorticoid receptor signaling in alcohol-dependent rats. Program No. S11. Volterra Alcoholism and Stress Conference Abstracts. <u>Alcohol</u> 48 (2014) 159-178.
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- 38. **Edwards S**, Inceoglu B, Hammock BD, Koob GF. Reduction of excessive drinking in alcohol-dependent rats via soluble epoxide hydrolase inhibition. <u>Journal of Neuroimmune Pharmacology</u> 9 (2014) 15.
- 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. <u>Alcoholism-Clinical and Experimental Research</u> 39 (2015) 123A.
- 42. Mayeux JP, **Edwards S**, Gilpin NW, Molina PE. Traumatic brain injury to the prefrontal cortex (PFC) transiently increases alcohol self-administration. <u>Alcoholism-Clinical and Experimental Research</u> 39 (2015) 58A.
- 43. Mayeux J, Gilpin N, **Edwards S**, Molina P. Mild traumatic brain injury increases alcohol drinking: A potential mechanistic role for brain stress systems. *Research Society on Alcoholism Meeting* (2016).
- 44. Pahng AR, Farooq MA, Edwards KN, **Edwards S**. Neuroadaptations associated with excessive alcohol seeking-behavior in dependent rats. *Research Society on Alcoholism Meeting (2016)*.

- 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, **S Edwards**. 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)*.

#### **Research Review Committees:**

2014-Present	NIH CSR Early Career Reviewer Program
2014	Medical Research Council (UK) Grant Reviewer
2015	NIAAA Study Section ZAA1 DD (54) Special Emphasis Panel, Ad hoc
	NIAAA Study Section ZAA1 DD (04) Special Emphasis Panel, Ad hoc
2016	NIAAA Study Section ZAA1 JJ (01) Special Emphasis Panel, Ad hoc
	NIAAA Study Section ZAA1 DD (04) Special Emphasis 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) Special Emphasis Panel, Ad hoc

CSR PMDA (Pathophysiological Basis of Mental Disorders and Addictions)

2018 NIAAA Study Section ZAA1 GG (32) Special Emphasis Panel, Ad hoc 2019 CSR MCDN (Molecular, Cellular, and Developmental Neuroscience)

**Scientific Presentations:** 

#### Local/State/Departmental Presentations

October 26, 2001

The University of Texas at Dallas, School of Behavioral and Brain Sciences Regulation of Addictive Behavior by Dopamine Signaling Host: Dr. Tres Thompson, UT-Dallas

February 4, 2014

LSUHSC-New Orleans, Department of Pharmacology Seminar Series
Neurobiological Changes Associated with Dysregulated Motivational Systems in Drug Addiction

May 20, 2014

LSUHSC-New Orleans, Department of Physiology Seminar Series

Dysregulation of Glucocorticoid Receptor Signaling in Alcohol Dependence

May 23, 2014

LSUHSC-New Orleans, Alcohol and Drug Abuse Center of Excellence Retreat Dysregulation of Glucocorticoid Receptor Signaling in Alcohol Dependence

September 2, 2014

LSUHSC-Shreveport, Department of Pharmacology, Toxicology, and Neuroscience The Neurobiology of Dysregulated Motivational Systems in Drug Addiction Host: Dr. Nicholas Goeders, LSUHSC-Shreveport

September 8, 2014

The University of New Orleans, Department of Biological Sciences

The Neurobiology of Dysregulated Motivational Systems in Drug Addiction

Host: Dr. Zhengchang Liu, UNO

May 22, 2015

LSUHSC-New Orleans, Alcohol and Drug Abuse Center of Excellence Retreat Combinations of Levomepromazine and Morphine for Analgesia in Recovered Addicts

June 3, 2015

LSUHSC-New Orleans, Department of Physiology Seminar Series GluR1 Subunit Phosphorylation as Marker and Mediator of Drug Addiction

September 14, 2015

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

November 9, 2015

LSU Health New Orleans, Neuroscience Center of Excellence Seminar Series Dysregulation of Glucocorticoid Receptor Signaling in Alcohol Dependence February 11, 2016

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

June 25, 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

May 18, 2017

LSU Health New Orleans, Department of Physiology Seminar Series Central Neuropharmacological Mechanisms of Pain & Alcohol Dependence

November 1, 2017

Tulane University, Neuroscience Program

Pain in the Context of Drug and Alcohol Addiction

December 11, 2017

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

December 13, 2017

LSUHSC-New Orleans, Alcohol and Drug Abuse Center of Excellence Retreat Neurobiology of Pain and Negative Reinforcement in Opioid Use Disorder

May 18, 2018

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

October 1, 2018

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

February 4, 2020

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

March 11, 2020

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

#### **National Presentations**

January 30, 2009

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

Host: Dr. Frank Porreca, University of Arizona-Tucson

June 23, 2009

Research Society on Alcoholism Annual Meeting, San Diego, CA

V1b Vasopressin Receptor Antagonism Reduces Ethanol Drinking in Ethanol-Dependent Animals Symposium Organizer: Dr. Todd Thiele, UNC-Chapel Hill

August 24, 2011

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

Symposium Organizer: Dr. Nicholas Gilpin, LSUHSC-New Orleans

December 16, 2011

UC-Santa Barbara, Department of Psychological and Brain Sciences

Pain as a Negative Motivational State Underlying Drug Addiction

Host: Dr. Karen Szumlinski, UC-Santa Barbara

January 3, 2013

Medical College of Wisconsin, Neuroscience Research Center

Neurobiological Changes Associated with Dysregulated Motivation Systems in Drug Addiction

Host: Dr. Cecilia J. Hillard, MCW

January 15, 2013

University of Washington, Department of Psychology

Neurobiological Changes Associated with Dysregulated Motivational Systems in Drug Addiction

Host: Dr. Jeansok Kim, UW

January 31, 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

Symposium Organizer: Dr. Catherine Cahill, UC-Irvine

February 28, 2013

University of Alabama-Birmingham, Department of Psychology

Neurobiological Changes Associated with Dysregulated Motivational Systems in Drug Addiction

Host: Dr. Franklin Amthor, UAB

March 6, 2013

Louisiana State University Health Sciences Center, Department of Physiology

Neurobiological Changes Associated with Dysregulated Motivational Systems in Drug Addiction

Host: Dr. Patricia E. Molina, LSUHSC-NO

March 12, 2014

Fifteenth International Winter Eicosanoid Conference

Eicosanoids and Alcohol Dependence

Symposium Title: Eicosanoids and Pain

Symposium Organizer: Dr. Bruce Hammock, UC-Davis

March 28, 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 Symposium Organizer: Dr. Patricia E. Molina, LSUHSC-New Orleans

September 1, 2015

Texas Tech University HSC Translational Neuroscience and Pharmacology Lecture Series Dysregulation of Glucocorticoid Receptor Signaling in Alcohol Dependence Host: Dr. Volker Neugebauer, TTUHSC

April 19, 2016

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

Host: Dr. Ming-Hu Han

January 31, 2017

Winter Conference on Brain Research, Big Sky, MT

Neurobiology of Pain and Negative Reinforcement in Opioid Use Disorder Symposium Title: The Opioid Epidemic: Moguls, Models and Molecules Symposium Organizer: Dr. Amy Newman, NIH/NIDA

May 18, 2017

American Pain Society Meeting, Pittsburg, PA

Convergence of Central Pain and Stress Signaling in Addiction

Symposium Title: Neurobiological Mechanisms Mediating the Interaction of Chronic Pain and Alcohol Abuse Symposium Organizer: Dr. Scott Edwards, LSUHSC-New Orleans

April 22, 2018

**Experimental Biology Meeting** 

Symposium Title: Intersection of Central Pain and Reward Circuitry in CNS Disorders

Symposium Organizer: Dr. Scott Edwards, LSUHSC-New Orleans

June 17, 2018

Research Society on Alcoholism Meeting

Central Reinforcement Center Correlates of Pain Avoidance Behavior in Opioid vs. Alcohol Dependence

Symposium Title: Comorbidities Promoting Excessive Alcohol Drinking

Symposium Organizer: Dr. Elizabeth Fucich & Dr. Amanda Pahng, LSUHSC-New Orleans

October 31, 2018

NeuroHIV and Alcohol Abuse (NHAA) Meeting

Neuropathological Mechanisms of Alcohol, SIV, and Antiretroviral Therapy

Symposium Organizer: Dr. Sulie Chang, Seton Hall University

December 9, 2018

American College of Neuropsychopharmacolgy

Central Reinforcement Center Correlates of Pain Avoidance Behavior in Opioid vs. Alcohol Dependence Symposium Title: Neurobiology of Opioid Addiction: Hyperkatifeia and Negative Reinforcement as a Driving Force Symposium Organizer: Dr. George Koob, NIH

November 14, 2019

18<sup>th</sup> Annual American Society of Regional Anesthesia and Pain Medicine (ASRA) Meeting Why is Alcohol Use so Common in Chronic Pain Patients: A Basic Science Perspective

June 24, 2020

Research Society on Alcoholism Annual Meeting, New Orleans, LA Neurobiology of Enhanced Pain Sensitivity in Alcohol Use Disorder

Symposium Title: Rising from the Depths of Despair – Understanding Hyperkatifeia to Inform AUD Treatment Strategies

#### **International Presentations**

May 6, 2011

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

Symposium Organizer: Dr. Robert Messing, UC-San Francisco

May 6, 2014

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

Functional Recruitment of Central Amygdala Glucocorticoid Receptor Signaling in Alcohol-Dependent Rats

Symposium Title: Central vs. Systemic Stress Systems in Alcohol Dependence

Symposium Organizer: Dr. Scott Edwards, LSUHSC-New Orleans

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

Symposium Organizers: Dr. Antonio Noronha, NIAAA and Dr. Fulton Crews, UNC-Chapel Hill

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

Symposium Organizer: Dr. Igor Spigelman, UCLA

September 10, 2018

19th Congress of 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, LSUHSC-New Orleans

September 12, 2018

19<sup>th</sup> Congress of 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, LSUHSC-New Orleans

May 30, 2019

2<sup>nd</sup> PanAmerican Congress of Physiological Sciences, Havana, Cuba

#### Glucocorticoid Receptor Regulation of Alcohol Dependence-Related Behaviors

May 2021

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

#### **Continuing Education Presentations**

June 2, 2016

LSUHSC 4<sup>th</sup> Annual Quality Improvement Forum

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

Organizer: LSUHSC Office of Medical Education

June 22, 2018

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

New Management Strategies and Referral Options

Organizer: Robert M. Leaman, CDE Director

December 14, 2018

**Editorial Board** 

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

New Management Strategies and Referral Options

Organizer: Clair Millet, CNE Director

#### **Editorial Posts and Activities:**

2014-Present	Editorial Board, Pharmacology, Biochemistry, and Behavior
2016-2017	Guest Editor, Addiction Issue, Current Opinion in Behavioral Sciences
2018-Present	Drug Abuse & Addiction Section Editor, Pharmacology, Biochemistry, and Behavior
Reviewer	
2007-Present	Pharmacology, Biochemistry, and Behavior
2009-Present	Neuropharmacology; Neuroscience Letters
2012-Present	PLoS ONE
2013-Present	Pain Research & Management; Behavioural Processes; Frontiers in Psychiatry;
	Frontiers in Integrative Neuroscience
2014-Present	Neuroreport; Addiction Biology; Behavioral Brain Research;
	Neuroscience and Biobehavioral Reviews
2015-Present	Journal of Neurophysiology; Neuropeptides; Stress
2016-Present	Neuroscience; Alcoholism: Clinical & Experimental Research; Pain

2017-Present Journal of Pain Research; Psychopharmacology; Biological Psychiatry;

Brain, Behavior, and Immunity

2018-Present Molecular Psychiatry, Trends in Pharmacological Sciences

## **SERVICE ACTIVITIES**

## **University/Institutional Service:**

2009-2013 2012-2013	The Scripps Research Institute (TSRI) Council of Scientific Editors TSRI Society of Fellows Travel Award Selection Committee
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2013-Present	LSUHSC Graduate Research Day Judge
2014-Present	LSUHSC Medical Student Research Day Judge
2014	LSUHSC Perspectives in Alcohol Research (PAR) Course Facilitator
2014-Present	LSUHSC Department of Physiology Works-in-Progress Facilitator
2014-Present	LSUHSC Graduate Advisory Council (GAC)
2014-Present	Faculty Research Development Committee (Dr. Nicholas W. Gilpin)
2014-Present	Faculty Research Development Committee (Dr. Stefany D. Primeaux)
2014-Present	Department of Physiology Faculty Search Committee (Chair, 2016-Present)
2015-Present	Department of Physiology Graduate Program Coordinator
2016-Present	Department of Physiology Postdoc Development Committee
2016-Present	LSUHSC School of Medicine Internal Funding Review Panel
2017-Present	LSUHSC NIAAA T35 Internal Advisory Committee
2018-Present	LSUHSC Classroom Polling Subcommittee
2018-Present	LSUHSC GAC Student Affairs Committee
2018-Present	Chair, GAC Recruitment Committee
2019-Present	LSUHSC Institutional Animal Care and Use Committee (IACUC)

## **Community Service Activities:**

2014-Present	Greater New Orleans Science and Engineering Fair (GNOSEF) Judge
2016-Present	Board of Directors, GNOSEF
2017-Present	Clinical Advisory Board, Avanos Medical